

STATE OF CALIFORNIA - THE RESOURCES AGENCY
BEFORE THE
CALIFORNIA ENERGY COMMISSION (CEC)

In the matter of,)
) Docket No. 13-IEP-1
)
Preparation of the 2013)
Integrated Energy Policy Report)
(2013 IEPR))

California Energy Commission
DOCKETED
13-IEP-1
TN # 2919
FEB. 14 2013

2013 Integrated Energy Policy Report

Staff Workshop

California Economic and Demographic Outlook

California Energy Commission
Hearing Room A
1516 9th Street
Sacramento, California

Thursday, January 24, 2013
9:00 A.M.

Reported by:
Tahsha Sanbrailo

COMMISSIONERS PRESENT

Robert B. Weisenmiller, Chairperson

*Andrew McAllister

STAFF PRESENT

Chris Kavalec

Kate Sullivan

ALSO PRESENT (* Via WebEx)Panel 1

Brad Williams, Moderator, Capitol Matrix Consulting

Eduardo Martinez, Moody's Analytics

Jim Diffley, HIS Global Insight, Inc.

Jerry Nickelsburg, UCLA Anderson Forecast

Jeffrey Michael, University of the Pacific Business
Forecasting Center

Panel 2

Brad Williams, Moderator, Capitol Matrix Consulting

Mike Rossi, Governor's Senior Advisor on Jobs and
Business Development

Gino Di Caro, Vice President, California Manufacturers
and Technology Association

Silvio Ferrari, California Building Association

Gina Grey, Western States Petroleum Association

Anne Smart, Silicon Valley Leadership Group

Loren Kaye, California Foundation for Commerce and
Education

Panel 3

Jon Haveman, Moderator, Bay Area Council Economic
Institute

Hans Johnson, Public Policy Institute of California

Jon Stiles, California Census Research Data Center

Bill Schooling, Department of Finance

Simon Choi, Southern California Association of
Governments

PUBLIC COMMENT

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P R O C E E D I N G S

1
2 January 24, 2013

9:00 A.M.

3 MR. KAVALEC: Okay, we'll get started. Welcome
4 to our Energy Commission staff workshop on Economic and
5 Demographic Outlook for California.

6 I'm Chris Kavalec from the Commission's Demand
7 Office.

8 A few housekeeping items before we start. If
9 you're not familiar with the building, the closest
10 restrooms are located out the door and to your left, by
11 the door going outside.

12 There's a snack bar on the second floor, under
13 the white awning.

14 In the event of an emergency and the building
15 being evacuated, please follow Energy Commission
16 employees to the appropriate exits, where we'll
17 reconvene at Roosevelt Park which is diagonally across
18 the street from this building.

19 Okay, so, on the schedule today we have three
20 panels looking at California's economy and demographic
21 outlook.

22 Our first panel this morning will consist of
23 economic experts, economic forecasters.

24 Our second panel will consist of representatives
25 from California's business and industry.

1 And on our third panel will consist of experts
2 on California demographics.

3 This workshop we're putting together because
4 there is such a strong relationship between California's
5 population and other demographic characteristics, the
6 economy, and our energy forecasts.

7 And the better we can understand those factors,
8 we think the better our forecast will be.

9 So, I just want to take a couple minutes here to
10 attempt to motivate the discussion a little bit. Here
11 at the Energy Commission and in other State agencies who
12 promote energy efficiency and other demand side
13 measures, and these are having a measurable effect on
14 electricity consumption in the State.

15 However, the fundamental driver of energy
16 consumption in the State is still the economy. And I'll
17 attempt to demonstrate that with this first slide.

18 Here, in this graph, on the top, the rolled
19 curve shows total employment in the State, using the
20 right-hand side scale.

21 And electricity consumption in gigawatt hours is
22 shown using the left-hand side scale.

23 And you can see how closely these things move
24 together. We started out in the 1980s with a recession
25 in both series of that.

1 And then the economy picks up later in the
2 decade, both series are moving upward.

3 Then we have a recession in the 1990s which hit
4 California especially hard, and both series become flat.
5 Then they pick up again later in the decade and then we
6 have a hiccup in the early 2000s with what seems to be,
7 now, a minor recession.

8 And for electricity consumption, in addition we
9 have the electricity crisis which had a pretty big
10 effect, as you can see on that blip there.

11 Both series pick up again later in the decade
12 and then we're hit with the 2008 recession.

13 Now, if you look on the far right-hand side of
14 this graph you'll see that employment has started to
15 pick up, while electricity consumption is remaining flat
16 or declining.

17 And there's a couple things going on here.
18 First of all, 2010 and 2011, which are the last two
19 years in these series, were historically, relatively
20 mild weather years so that all-else-equal electricity
21 consumption was lower.

22 In addition, the most recent recession could be
23 referred to as a financial recession. So, with the
24 other things going on that may not show up in the
25 employment series, a lot of bankruptcies and

1 foreclosures, but still affect the electricity
2 consumption.

3 Also, our strong emphasis on energy efficiency
4 is having an impact there, too.

5 So, we do our forecasts using the best available
6 information, trends, the expected policy, and so on, and
7 plan accordingly. And then sometimes what happens is a
8 few years down the road we have a recession or a bubble
9 and there go your best laid plans.

10 So, today we'd like to get into a little bit of
11 the question of how better to incorporate economic
12 uncertainty within our forecasts or, more specifically,
13 the possibility of recessions or bubbles a few years
14 down the road.

15 I want to start that conversation and,
16 hopefully, we, the staff, can follow up offline with
17 some of our economic experts.

18 A few factoids about California and its economy,
19 the unemployment rate has finally broke 10 percent,
20 which is good and bad. Good in the sense that it was a
21 lot higher and bad because the unemployment rate is
22 still almost 10 percent.

23 Driving our recovery -- or two key factors
24 driving our recovery are consumer spending, which is
25 finally on an uptick, and a strong high-tech sector.

1 Most analysts agree that housing industry has
2 finally hit bottom and we're in recovery. However, we
3 should point out that construction employment is still
4 40 percent below what it was before the recession.

5 And the recovery is uneven within regions of the
6 State, which I will show with the next slide.

7 This shows unemployment rates for various
8 counties in the State as of December 2012, brought to us
9 by the Employment Development Division.

10 On the left-hand side of the table we have the
11 counties with the lowest unemployment rates and on the
12 right-hand side of the table we have the counties with
13 the highest unemployment rates.

14 And you may notice a pattern there. The
15 counties on the left tend to be coastal counties. The
16 counties on the right tend to be inland, particularly in
17 the Sacramento and San Joaquin Valley, and then down to
18 Imperial.

19 So, what we want to do today is investigate this
20 phenomenon of an almost bifurcated economy within the
21 State. We have the coast recovering strongly and inland
22 areas with a stagnant or very slowing growing economy.

23 So, we want to investigate why that's happening
24 and is it going to continue because, after all, our
25 forecasts -- we forecast not just for the State as a

1 whole, we forecast for regions within the State.

2 So, with that I would like to introduce the
3 moderator of our first two panels, Brad Williams.

4 Brad has been involved in economic forecasting,
5 State budgeting and finance issues around Sacramento for
6 over 34 years.

7 He was the Chief Economic and Revenue Forecaster
8 for the LLO's Office from 1995 to 2007.

9 Brad is currently a senior partner and a chief
10 economic for Capital Matrix Consulting, which is a firm
11 serving clients dealing with a variety of State, local,
12 and fiscal issues.

13 So, Brad, if you would get us started?

14 MR. WILLIAMS: Well, thank you and good morning.
15 Thank you for coming here so early. And we're competing
16 with the Governor's State of the State address, so we
17 certainly thank those that are here, that economics is
18 very important to all of us.

19 What we'd like to do this morning, I'm going to
20 be the moderator for the first two panels. And we're
21 starting off with the economics panel, a distinguished
22 group, folks that when you hear comments about
23 California economy, it's often coming from one of these
24 four panelists.

25 And I think the way I'd like to handle this this

1 morning is, first, I'm going to ask each of the
2 panelists to -- after introducing them, ask them to make
3 some sort of opening comments, maybe a three- to five-
4 minute presentation, very short remarks to just kind of
5 give us a sense of what they see for the California
6 economy.

7 Again, I'd like to sort of shift over to some
8 questions that I would ask, sort of responding to some
9 of the issues that are raised in these opening remarks.

10 I'm going to touch on a variety of different
11 aspects of the outlook. I think for purposes of some of
12 the Energy Commission staff, they have a number of
13 technical issues that they would like to have addressed.
14 I'll throw in a few questions on those.

15 And then there will be a variety of other
16 questions about, you know, the regional dimensions of
17 the outlook, the industry dimensions, what is going on
18 in energy and, you know, what kind of economy are we
19 looking at now?

20 I mean, there's the basic question of how strong
21 it's going to be but, also, you know, what is sort of
22 the new normal, you know, post the great recession?

23 So, with that in mind, I'd like to turn -- oh,
24 and then I guess one other thing I'd like to say is
25 after I offer these initial questions, I would encourage

1 you, if questions have come to mind either in the
2 opening remarks or in some of the give and take, to
3 write questions down and pass them up. Kate here will,
4 I think, take them and feed them to me, and we will
5 incorporate those questions into this discussion.

6 The plan there would be, you know, initially, I
7 would ask some questions and then we'll turn it over to
8 Commissioners to see if they have any questions, and
9 then we'll open it up to the audience and see if you
10 have any direct questions or comments.

11 So, I would encourage you, though, as we go
12 through here to jot down questions that arise and we'll
13 try to address them as we go along.

14 So, turning to the panel just very quick, brief
15 bios.

16 I think our first panel member is Jim Diffley,
17 who is the group managing director of Global Insight's
18 Regional Services Group. Since 1998, he has supervised
19 the quarterly economic forecast for the 50 States and
20 over 300 metropolitan areas of the United States. And
21 he's also responsible for various other consulting
22 services that is provided by the Services Group.

23 Second panelist is Ed Martinez, who is a senior
24 economist with Moody's Analytics' Westchester Office.

25 As an analyst for the California economy, Ed is

1 responsible for economic forecasts for the State and its
2 major metropolitan areas. He also follows international
3 trade patterns in the State, in its metropolitan
4 regions.

5 The next panelist is Jerry Nickelsburg, who has
6 been with the -- who has been the California expert for
7 the UCLA Anderson Forecast since 2006. Jerry plays a
8 key role for UCLA in the economic modeling and
9 forecasting of the Los Angeles, Southern California, and
10 statewide California economies.

11 And last, but not least, Jeffrey Michael, who is
12 the director of the Business Forecasting Center at the
13 University of Pacific in Stockton. The Center produces
14 quarterly economic forecasts for California and ten
15 Northern California metropolitan areas, in addition to
16 special reports on current business and policy issues
17 impacting the region.

18 So, with that as kind of openers, I think what
19 I'd like to do now is just turn it over to the panelists
20 and let them make some opening remarks. Like I say,
21 we're going to go, you know, three to five minutes.

22 So, Jim, if you'd like to start, that would be
23 great.

24 MR. DIFFLEY: Thank you, Brad. And, you know,
25 turnabout is fair play. We can leave Ed's slides up. I

1 was at a conference recently with Mark Zandi and I made
2 a presentation and he didn't, so he spoke with my
3 slides' contents. That's how it works out.

4 But anyway, it's a pleasure to be here in the
5 Golden State. You know, thinking about California in
6 this economic environment, to me it's ironic that 13
7 years ago, as we started the 21st Century, the U.S.
8 budget was in balance. You know, Federal Reserve
9 Chairman Greenspan was openly worrying about a
10 diminishing amount of Treasury Bonds in circulating to
11 use for monetary policy.

12 While California at that time had a budget
13 crisis with a multi-billion dollar structural deficit
14 spawned by dot.com boom and bust.

15 Today, the U.S. economy's precariously poised on
16 a fiscal cliff and debt crisis, while California is
17 suddenly able to project budget balance in the upcoming
18 fiscal year, quite an amazing turnaround.

19 And this despite California once again being at
20 the -- and I wasn't thinking when I wrote this --
21 epicenter -- sorry for the earthquake allusion -- of the
22 national recession. First, it was that dot.com crash,
23 and then the housing bubble where, clearly, California
24 was a leader in the housing boom and bust.

25 Now, the key reason I think that California's

1 been relatively successful in this environment is that
2 through it all it has retained its massive comparative
3 advantage in human capital, embodied in knowledge
4 workers, creativity and entrepreneurship. Most notably
5 in the Bay Area and Silicon Valley, but spreading
6 throughout the State.

7 Now, about that fiscal cliff, to put some
8 context here, 2012, last year ended, the U.S. economy
9 was advancing slowly, but surely. The recovery had weak
10 momentum but the fundamentals, particularly in housing,
11 as was mentioned here, were improving.

12 The key risk emanated from policymakers in
13 Washington.

14 This year, while we avoided the January 1st
15 fiscal cliff or fiscal slope, and pushed the debt limit
16 crisis further into the year by a couple of months, at
17 least now, but at some cost.

18 The payroll tax increase will knock, in our
19 view, 0.4 percent off 2013 GDP growth for the U.S. And
20 by the way, it will have a somewhat larger negative
21 impact in California relative to what would have been
22 the case.

23 We expect, now, that consumer spending growth
24 will be just 1.4 percent in the first quarter. It would
25 have been 2.6 percent without the tax, leading to a

1 meager 1.0 percent GDP growth rate for the quarter, and
2 just 1.7 percent for the year 2013 versus 2012.

3 Nevertheless we will, by year end, be poised for
4 faster growth in 2014 and beyond.

5 In California we project GSP growth of two
6 percent in 2013, three percent in 2014, a bit stronger
7 than the nation, with job gains of 240,000 this year,
8 putting the State on track to a full recovery in the
9 sense of a full recovery on recession job losses that is
10 getting back to employment levels that existed in 2006
11 by 2007, by the end of 2015.

12 On a regional basis Riverside, amongst the
13 metros, will actually lead in growth this year but, of
14 course, that's a growth rate coming off a very deep dive
15 in the Inland Empire.

16 San Jose, on the other hand, will be the metro
17 that's first to return to its -- and I think it already
18 has -- return to its peak level of employment.

19 Although, ironically or parenthetically, I'll note that
20 it's still below its 2000 peak. It's a couple of years
21 away from alleviating that, to be sure.

22 So, with that to set the table --

23 MR. WILLIAMS: Thank you very much.

24 Ed.

25 MR. MARTINEZ: Thank you for the opportunity to

1 come out here, especially as a California native and a
2 two-time Cal State grad. So, it's nice to put my
3 dollars back to work, especially since none of you guys
4 financed my education, so I appreciate the opportunity
5 to be out here today.

6 There's three takeaways that I want to leave
7 here with my introductory remarks. One, a relative
8 optimism that we have for the State of California in the
9 near term, going forward, and identify a very crucial
10 inflection point in California recovery, which is
11 becoming more evidence every day as we get more data
12 releases.

13 Then, also, what was alluded to before in the
14 introductory remarks is sort of like the bisectonal
15 nature of the recovery and, actually, of development
16 going forward in the State, in the medium-term to the
17 long-term.

18 In my first graph that I have here, like I
19 alluded to we are -- okay, next. Oh, the first slide,
20 back one. There we go.

21 Like you can imagine, we're fairly optimistic
22 for the California's outlook for 2013. Over the last
23 year and a half California has outpaced the country.
24 Primarily, strong tech, obviously, if you think about
25 the Silicon Valley and even some of the Southern

1 California metro areas, you know, really strong linkages
2 to international trade.

3 We do identify some of the aspects actually
4 broadening to that. And also the way that we just
5 mentioned, with the Federal budget cuts in DC, our
6 assumption is -- with additional cuts is that we're not
7 going to see the worst case defense cut scenario, which
8 would impact heavily in metro areas, like San Diego.

9 Instead, our baseline assumption is some kind of
10 deal that would actually target more social spending, so
11 that option will minimize some of the impact for
12 California going forward.

13 And also, when you take a look at California's
14 linkages internationally, a lot of it is Pacific Rim.
15 It's relatively less with Europe. So, with Europe still
16 being weak, still in recession at least the next quarter
17 or so, we do see California having to reduce impact for
18 that.

19 So, those are really the main reasons why we're
20 fairly optimistic for the State in the near term.

21 The next slide, please. So, with that we
22 finally do some very long-needed improvements in the
23 labor market. We still do have the unemployment average
24 well above the U.S. unemployment rate. A lot of that is
25 just the hangover from construction. As we all know

1 here, California was very hard hit. It's still going to
2 take many years to get back to those construction levels
3 and a lot of the investments people-wise, capital-wise
4 that did go into construction, they're still being
5 under-utilized. You know, that's one of the primary
6 reasons why we have the unemployment rate lingering so
7 high, for so long.

8 But for the next slide, though, like I
9 mentioned, this is the inflection point that I really
10 want to stress that we've identified. We've had some
11 really strong decreases in the foreclosure rates. We do
12 this forecast with our data partner, Realty Trac. So,
13 when you take a look at foreclosures per 1,000
14 households, we're well below the peak level at the
15 height of the housing crisis in 2008.

16 What that scenario allowed me to do, and you see
17 this in the headlines when you look at the data, that's
18 allowing housing in California statewide to finally
19 reach bottom to transition.

20 In fact, in some of the coastal areas like
21 Orange County, San Diego, the foreclosure rate is now,
22 once again, below the U.S. rates. So, it's actually
23 gone back down to its pre-recession level.

24 So, again, this is a very strong inflection
25 point for housing. The way that I look at it and I try

1 to explain it is housing is swinging from a negative
2 more to neutral, and in our short-term forecast in the
3 next couple of years, it's slowly going to start
4 positioning to more of a positive driver.

5 And this is very important for the California
6 recovery. It's what's been missing the last couple of
7 years, what we finally need and what we're going to be
8 seeing over the next couple of years.

9 And lastly, just to include it's going to be
10 very different, obviously, from the coastal areas. I
11 was just in San Francisco yesterday. It's a much
12 different recovery as in the inland areas, especially
13 for you guys here, or down in the valley. The valley
14 and inland areas will trail behind the coastal areas by
15 quite a bit, when you take a look at most measurements
16 about the unemployment.

17 MR. WILLIAMS: Okay, thanks a lot.

18 Jerry.

19 MR. NICKELSBURG: Thank you. It's always a
20 pleasure to be back here so thank you for the invitation
21 to the Department of Energy.

22 I don't want to repeat what has just been said
23 about the historical data. It has been relatively good
24 news for California. Our unemployment rate is coming
25 down faster than the U.S. rate.

1 But what I'd like to do is talk about some of
2 the concerns on the horizon. But first of all, in terms
3 of employment and economic growth, we're seeing, as I
4 think my colleagues are seeing nationally, that 2013 is
5 not going to be a year of fast economic growth because
6 we have an increase in taxes, we have fiscal restraint,
7 we have weak economies, oftentimes in recession abroad
8 amongst our trading partners.

9 And what typically happens is, and particularly
10 in this recovery, is that when the U.S. growth
11 accelerates, California grows even faster. And when the
12 U.S. growth decelerates, California's growth decelerates
13 faster.

14 So, we still expect California to be growing
15 faster in the U.S., but by much less than it has
16 previously. And so I'm a little less optimistic about
17 2013 than I think my colleagues are.

18 And the reason why that happens is twofold. One
19 is that when U.S. growth slows, consumption slows and,
20 therefore, the amount of traffic or the growth in the
21 amount of traffic through our ports, impacting our
22 logistics industry, slows.

23 And secondly, as U.S. growth slows, investment
24 in equipment and software, that's all the technology
25 stuff that we produce, that also slows. So, the things

1 that California really does well are impacted, you know,
2 are magnified from the U.S. by the upside and the
3 downside.

4 Nevertheless, we are also projecting faster
5 economic growth in 2014 and I think I may be a little
6 more optimistic about California in terms of our job
7 growth in 2014. So, we'll make up for it as the economy
8 gets going.

9 But as has been pointed out by all three folks
10 who have spoken before me, we have a bifurcated
11 recovery. This is -- on the coast this is our trade
12 technology, globalized California that is growing
13 inland, we still have significant problems. And you saw
14 that in the chart in kind of the difference between the
15 unemployment rates.

16 If California were just coastal California, we
17 wouldn't have the third highest unemployment rate in the
18 country.

19 There are a lot of difficulties, not the least
20 of which is housing. So, we see this inflection point
21 here in housing. That is coastal California, that's
22 multi-family housing which takes fewer construction
23 workers. It's not inland because -- and this is, you
24 know, where I think we really need to dig into the
25 details here. Foreclosures are down, but in many parts

1 of California they're way above the 1990s peak. And
2 banks have learned that it is much more cost-effective
3 to convince, even with subsidies, individuals who are
4 eligible to foreclosure to do a short sale, so they
5 don't have to go through the foreclosure process, even
6 to the point of paying them \$30,000 to move out after
7 the sale, and couched as moving assistance.

8 If you add in distressed housing, that is short
9 sales, to the foreclosures, you don't get that dramatic
10 drop. And over 50 percent of the housing in inland
11 California is either short sale or foreclosure, now,
12 that which has been sold. So, we're still not out of
13 the woods inland.

14 Eduardo's absolutely right, along the coast in
15 many markets we are definitely out of the woods in
16 housing. We're seeing permits going in for new housing
17 and that market being revitalized, but we still have
18 this issue.

19 As far as energy usage, I think this is
20 important because what happens with inland California?
21 Does the population stagnate? Does it in fact decrease
22 because of these awfully high unemployment rates
23 relative to other parts of the State and other parts of
24 the country?

25 And what is the new engine of growth for inland

1 California? You know, if it is now going to be
2 healthcare, and education, and tourism that's a
3 different energy -- different energy composition than
4 traditional manufacturing. So, we've got some open
5 questions there.

6 And let me finish up by saying there are some
7 things that we need to be thinking about. Number one,
8 Prop 30 is not a panacea, it's breathing room. And so
9 we should be looking to what happens here in Sacramento
10 to use that breathing room to change some of these big
11 cycles that my colleagues have talked about.

12 And whether or not that happens, what happens to
13 regulatory reform in an era of a super-majority, you
14 know, these are all things that we need to look at and
15 keep our eyes on when we're looking towards what's going
16 to happen in the future of California.

17 And I said that was my final comment. I want to
18 make one more comment. Human capital is critical to the
19 future of California. If you look at the human capital
20 numbers, we have to do a lot better if we're going to
21 maintain the kind of better-than-the-U.S. performance
22 that we have in the past.

23 MR. WILLIAMS: Thanks.

24 Jeffrey.

25 MR. MICHAEL: Good point. I find myself

1 agreeing more and more with Jerry these days. So, in
2 one sense in that I look at the recent performance of
3 California economy, I continue to be impressed and
4 surprised on the upside by the tech sector and what it
5 does.

6 I'm not terribly impressed with the rest of the
7 California economy and have some concerns about it, and
8 I also have some -- I'm certainly not a tech industry
9 expert, but I think there are some concerns about
10 whether that sector can sustain the kind of levels of
11 growth that it's seeing.

12 We see concerns with business equipment
13 investment and exports, and then we see some signs of,
14 you know, the Bay Area real estate and housing economy,
15 and things getting over-heated that will put somewhat of
16 a constraint on the ability of that region to grow.

17 I, too am -- I'm not terribly optimistic about
18 2013. I think some -- we've heard a lot of optimistic
19 statements about how California's, you know,
20 outperforming the U.S. so much. I think a little bit of
21 that is getting a little too excited over pretty small
22 margins. You know, I'll start getting excited about
23 that when I start seeing a one and a half percentage
24 point gain.

25 Some of it is sort of what I would expect in the

1 baseline given the trough that we're in and some of the
2 demographic projections that we have for California.

3 When I look at -- there's two sectors I'm going
4 to talk about a little bit and just part of the reason
5 why I think 2013 might be a little bit muted, but I
6 think 2014 looks a little bit stronger.

7 I know people in Sacramento are breathing easier
8 due to the Prop 30. But also, if you look at recent
9 years' data, the way we've budgeted in California is --
10 you know, we had a set of temporary tax increases expire
11 and then we budgeted as if we're going to have future
12 temporary tax increases pass.

13 So now, for actually the past year we know that
14 the budget for next year is pretty much what we had next
15 year. For the past year we've been sort of enjoying
16 that Prop 30 budget without paying the Prop 30 tax bill,
17 and it's been somewhat stimulative in a strange way.

18 So, I think in 2013 we have to start paying
19 those bills without necessarily getting an impact from
20 government spending.

21 Other things are very focused on housing. I
22 think everybody's right that we've sort of hit an
23 inflection point with housing. Certainly, we know about
24 the bubble, as we saw a period of big collapse from '07
25 to '09. We've had about three years of relatively flat

1 housing prices and just sort of grinding our way through
2 the foreclosure prices.

3 And here in the last year and last six months,
4 you know, we've been waiting for the prices to wake up
5 and the housing sector to wake up, and it seems to be
6 upon is.

7 So, this is a really interesting thing to look
8 at because I think it has a lot to do with the shape of
9 California in the future. We know we've hit a turning
10 point and that housing is going up, but where is it
11 going? And I think that's the difficult question.

12 We're seeing rapid price appreciation. Not just
13 in the coastal areas, but also in the inland areas, now,
14 have kicked in with the fairly rapid price appreciation
15 and it's something that I've been expecting.

16 But I think some of the key points is that
17 what -- how far does this price appreciation have to go
18 up before it starts impacting the real economy, or you
19 start seeing building permits respond to that?

20 More, you see a supply response in terms of
21 listings out of the housing market, and some of these
22 things that drive real economic activity. I think you
23 can see a fairly rapid price response and we're not
24 quite sure where that point is, is where we're going to
25 see some of the construction activity and stuff respond

1 to it.

2 And that's going to tell us a lot about the pace
3 and shape of growth in California in the long run.

4 The next one is healthcare, which I haven't done
5 a lot of thinking about because I'm really bad at
6 predicting courts and elections. And so I didn't invest
7 a lot of time understanding Obamacare because I thought
8 the Supreme Court might take it out and I thought the
9 election might take it out. And now, it's survived and
10 this is a really big deal.

11 I mean, it's close to one-fifth of GDP. In
12 2013, you know, certainly there's a lot of getting
13 ready, changes to tax laws that aren't necessarily
14 always beneficial to the economy.

15 But in 2014, we're going to see this expansion
16 of coverage and expansion of demand for healthcare
17 services which, potentially, is a push in 2014 that we
18 haven't completely estimated.

19 Like I said, we're just now starting to invest
20 our time understanding that sector, but I'd be
21 interested in other people's thoughts on that.

22 MR. WILLIAMS: Thank you. So, let me start off.
23 I think a question that Jeffrey raised about housing is
24 one that I've personally had, and I'd like to throw this
25 open to the panel.

1 You know, we have seen decline on sold
2 inventories. We've seen some big price increases along
3 the coast, but also inland in housing. I think a
4 question that I think is fair to ask is how long is it
5 going to take for those factors to translate into new
6 construction in the residential area of the economy?

7 And if you could, if you could kind of give me a
8 sense of what you see for construction activity, we'll
9 talk about total number of permits, you can talk about
10 just residential or residential and nonresidential
11 together, if you wish, you know, over the next year or
12 two.

13 And then what do you think the sort of new
14 normal is for California? What would you expect to be
15 sort of the equilibrium amount of construction activity
16 over the next five to ten years?

17 So, I'll just throw it open. Anybody want to
18 respond?

19 MR. NICKELSBURG: Well, I'll start.

20 MR. WILLIAMS: Okay.

21 MR. NICKELSBURG: Or did you want to start?

22 MR. MICHAEL: No, go ahead.

23 MR. NICKELSBURG: So, I think what we have to
24 realize about housing is it's everywhere local. These
25 are localized markets. And you see recovery in housing

1 where you see recovery in jobs.

2 So, we're already seeing in California multi-
3 family housing permits are back up to 75 percent of
4 their peak. So, that's a really kind of nice recovery
5 given where we are in terms of employment. And I think,
6 you know, we kind of all roughly agree on the time frame
7 when we get back to the employment that we had at the
8 beginning of the downturn. It should be higher than
9 that because we've had population growth.

10 But at any rate, multi-family permits are up.
11 That comports with the demographics and it comports with
12 the fact that the Gen-Xers, who should be, now that
13 they're in their 30s, should be demanding single-family
14 housing. A lot of them got in too early because money
15 was cheap. And they got in, they were pushed out with
16 foreclosures, so they're really kind of out of the
17 market for at least the purchase of single-family
18 houses, maybe not rentals.

19 So, we're seeing locally, in parts of
20 California, markets recovering, new projects underway.
21 And, of course, multi-family projects take more time.

22 But also, you know, there are parts of the State
23 where you have over 50 percent of the market is
24 distressed and you're not going to see much new building
25 when that happens.

1 And I think the price increases that you see in
2 those parts of the State, you know, where the median
3 price goes up is just a function of composition. The
4 same, identical house will sell for less if it's a
5 foreclosed house than if it's a short sale, than if it's
6 an owner-occupied house.

7 So, if you're moving from foreclosed houses to
8 short sales, still distressed, still under-market
9 pricing, to kind of blow it out, but you'll see an
10 increase in price.

11 And so that's not really that meaningful, so
12 it's really hard to interpret these price numbers and
13 know if they signify an increase in demand.

14 One way you can do it is to say are the number
15 of units being sold going up in a sustained way? And
16 the answer is no, not really.

17 MR. MARTINEZ: A good way to take a look at
18 construction going forward is by permits per household.
19 So, a good way to standardize it is per 1,000
20 households.

21 What we're forecasting is that the peak trough
22 loss, so from the high point to the trough point that
23 was reached a couple of years ago, we're only expecting
24 about a half of that loss to be recovered by 2015, by
25 2017.

1 One, that tells you that the previous peak was
2 pretty much unsustainable, obviously, so that's pretty
3 easy to agree to.

4 But when you take a look at California compared
5 to another big state, Texas is easily a pretty good
6 benchmark. We do have Texas actually going back to that
7 peak.

8 So, that tells you, though, that construction
9 will be coming back, rather belatedly, but it's only
10 going to be a fraction of what it was before pre-
11 recession.

12 And so then that becomes a little more
13 important, especially when you're talking about energy
14 usage and the rest of the economy, in that that's a big
15 chunk of the pre-recession activity that's just not
16 going to be there.

17 Because what we're seeing with our figures, when
18 we looked at the numbers, it's just going to be much
19 more sustainable going forward as opposed to the pre-
20 recession period.

21 MR. NICKELSBURG: Does that mean that you're
22 expecting larger households in California than, say,
23 pre-2007?

24 MR. MARTINEZ: I think slower formations, yeah.

25 MR. NICKELSBURG: So, the bad news is that the

1 kids and the parents aren't moving out as fast.

2 MR. MARTINEZ: Correct. Well, actually, as you
3 know here, a lot of homebuilders, actually, they're
4 doing larger houses but with that -- I think the term is
5 the grandparent section of the house. Again, going for
6 that multi-generational family and so the homeowners are
7 responding to that market already. And we especially
8 see that in Southern California and some of the inland
9 areas.

10 MR. DIFFLEY: Let me comment on thing each of
11 Jerry and Ed said. First, I strongly agree and have
12 urged this across the country, it is -- as Jerry said,
13 it's very difficult to truly interpret the underlying
14 home price fundamental change from the data. The
15 distressed sales really do influence the data quite a
16 lot and you have to be very careful of it.

17 Phoenix this year, for instance, is -- over last
18 year is found they're reporting 20 percent and 30
19 percent home price growth. But that's not an apples-to-
20 apples comparison to the previous year. It's the way
21 the foreclosure process worked very rapidly in Arizona.

22 Second, I was going to support something Ed
23 said. I forget what it was. But on forecast, let me
24 give the forecast numbers explicitly, then.

25 Oh, I know what it was. You have to be careful,

1 also, going back and comparing housing in California in
2 the future with the experience in 2004 to 2006, which
3 clearly was shown to be unsustainable and we're not
4 going to go -- you're not going to go back to that.

5 So, the question of getting housing back to
6 normal should be compared with an earlier time period
7 than the bubble years.

8 So, what we have are long-term, thinking now
9 prior to 10 years out, we look at housing starts for the
10 State of about 170,000 per year in our forecast. I'm
11 not sure how that differs from Ed in terms of the
12 percentage difference from the peak, offhand.

13 And how does it get there? About 75,000 to
14 80,000 this year in 2013, 125,000 next year in 2014, and
15 then moving up gradually over a couple of years to
16 170,000.

17 MR. NICKELSBURG: I disagree slightly with
18 Jerry. I do think that real apples-to-apples home
19 prices are moving up in inland California. And in large
20 part due to investors who have seen a really profitable
21 buy and rent opportunity. And that's been going on for
22 three years.

23 But we've seen a movement of larger investors
24 acquiring more property, with more capital here. I
25 mean, I've heard a local example that it's Black Rock is

1 setting up its Sacramento home buying operation in the
2 last six months. It's absorbing a huge amount of
3 inventory.

4 So, while I agree that when you look at the
5 median price is up 30 percent year over year in the Bay
6 Area, up in the high teens in a lot of the valley,
7 inland California, that the mix is a huge part of that
8 as it increased to that extent.

9 But I do think we're seeing real prices increase
10 just for no other reason -- you know, I bought one and
11 it's going to be the best investment, you know, the rate
12 of return is amazing. I wish I had the resources to buy
13 more than one.

14 But the prices are, I think, moving up just
15 because I do believe they're somewhat underpriced
16 relative to the rental values of the properties within
17 the region.

18 The question is you can make that correction
19 based on, you know, rates of return that I think will --
20 you know, the investors are only pushing it so far. And
21 the question is, is that going to be far enough to wake
22 up the homebuilding industry, and I'm not sure if that's
23 the case.

24 I mean, I think what we see in inland California
25 is that even with a 20 percent increase in home prices

1 homebuilders still can't really build and sell property,
2 except for the case where they've scooped up lots for
3 next to nothing that were finished previous to the
4 recession.

5 So, I think we're going to have to wait a little
6 bit before we see the homebuilding activity pick up, but
7 I do think we'll see something significant in 2014 and
8 going forward. But I think we've got to wait one more
9 year for the single-family to really perk up across the
10 State and particularly in inland California.

11 MR. WILLIAMS: Thank you. Let me switch gears
12 to a technical question. I noticed that Jim, in his
13 opening remarks, alluded to gross domestic product, the
14 gross state product. And I think, you know, the
15 indication of how California has been doing, how it's
16 going to do. But I didn't hear from anybody else.

17 And so this kind of gets down to a technical
18 issue that I think the Commission staff have about the
19 sort of viability of gross state product as a fair
20 measure of what is going on at the State level, at the
21 State level.

22 And if any of you would care to comment on that?
23 I don't know if, Jim, you actually have it in your
24 forecast, it looks like.

25 MR. DIFFLEY: Yeah.

1 MR. WILLIAMS: Do any of the rest of you? When
2 you put together your regional forecast do you use gross
3 state product?

4 MR. NICKELSBURG: I took it out of our forecast.

5 MR. WILLIAMS: And? What about the reasoning?
6 I guess both for using it and, in your case, Jerry,
7 about why not.

8 MR. NICKELSBURG: Right, so I looked into how
9 gross state product is computed and I think there's kind
10 of one sort of serious issue because we think of gross
11 state product like gross national product. And gross
12 national product is consumption, investment, government
13 and net exports.

14 The next exports is really kind of a problem
15 because we don't know how much goods -- how much in
16 terms of value of goods and services produced in
17 California are sold in Nevada, Arizona, et cetera, nor
18 how much we buy from those states.

19 And so I think that the -- you know, what we
20 call the statistics, the variants, the potential error
21 in those estimates is really quite high. Well, if it's
22 sort of consistent in the same way, which is the idea
23 which -- in which the BA, the Feds, who are putting this
24 together think it is, then you just have to look at
25 changes in it and you really get some, you know, decent

1 information.

2 I'm not sure that it is. I'm not convinced. I
3 haven't seen any evidence that it is. And it has a
4 relatively high correlation with personal income, which
5 is a much -- which I have much more confidence in, in
6 terms of the way in which that measure is constructed
7 and gross state product.

8 So, I go with personal income level rather than
9 gross state product.

10 MR. WILLIAMS: Thanks.

11 MR. MICHAEL: You know, in the metro area, the
12 GDP in any of our forecasts because it seems like the
13 more local you get, you get more concerns.

14 MR. DIFFLEY: Can I make a distinction here? We
15 will continue to forecast gross state product and gross
16 metro product because we think it is the best measure of
17 how an economy, how a regional economy is doing in the
18 future. Right?

19 The measurement issues, however, are severe and
20 I agree with Jerry in that regard.

21 The way the BA measures gross state product --
22 first of all, it does it on an annual basis, although
23 they've got a program now to do it on a quarterly basis,
24 or to start doing it on a quarterly basis, is really
25 built up -- unlike the U.S. national income and product

1 accounts consumption, investments, exports, et cetera,
2 you don't have that data at the state level for reasons
3 Jerry mentioned.

4 So, it's built up from wages and salaries, and
5 then there's a large amount of imputation of what the
6 rest of the business sector is doing; profits, for
7 instance.

8 That's very shaky, frankly. If you're familiar
9 with corporate income tax return accounting, you know,
10 you get nervous that that's a key input into the process
11 of estimating gross state product in the past. Right?

12 So, I am very worried about -- and the same is
13 true of gross metro product, by the way.

14 So, I'm worried about the strict interpretation
15 of the past historical series there, but I want to
16 continue to forecast the concept because that's the
17 concept to use.

18 I agree, it's closely correlated with income and
19 income is measured better, so I'm not disagreeing with
20 that at all. But I do strongly support the use of the
21 concept.

22 MR. NICKELSBURG: One other comment on that. We
23 have some colleagues at Claremont-McKenna College who
24 are building up a measure -- and so I think there's
25 something in the semantics of calling it gross state

1 product. I think we ought to call it something else to
2 be more representative of the measure.

3 But what they're doing is they're taking
4 employment by sector, and productivity by sector, and
5 then trying to build up -- so, you know, again, it
6 doesn't deal with the net exports, but they're trying to
7 build up an economic activity index, you know, with the
8 same idea in mind.

9 So, you know, I think what they're trying to get
10 at with gross state product is good. I'm just not
11 satisfied with the statistical measure.

12 MR. DIFFLEY: So, parenthetically, that's the
13 way we forecast gross state product is looking at
14 employment and productivity by sector.

15 MR. NICKELSBURG: Yeah.

16 MR. DIFFLEY: And that's the way we project
17 estimated and projected gross metro product before BA
18 had an actual consistent series for gross national
19 product, so I agree with that.

20 MR. MARTINEZ: We're the same way, too. We
21 still do a forecast for our gross state product and
22 gross metro product. But we're aware, obviously, there
23 are some issues the way they're defined.

24 There is one area, especially when you're
25 talking about trade and export, there is a new data

1 series out, it's about three or four years old. The
2 Department of Commerce is now publishing data from the
3 Census Bureau on metros by export and it's a little bit
4 different from the state trade data.

5 So, the state trade is a little bit corrupted
6 because a lot of times, you know, it will capture stuff,
7 let's say it goes to the Port of New Orleans, but might
8 have originated like up in Iowa and something that
9 crosses the Texas border may have come from Chicago or
10 even from like the California coast and gone by rail.

11 What the metro export series does, what they do
12 with customs records is they identify an actual location
13 of the main economic principle behind that shipment.

14 The example I like to use is say, Mattel, which
15 is also, again, an L.A. County business, they might have
16 a shipment of Barbie's that goes to Mexico through El
17 Paso, through Juarez.

18 The records will show that it has an El Segundo,
19 California address, so it will allocate that as an L.A.
20 County export as opposed to an El Paso County export.

21 So, this is one area I'm hoping to do a little
22 bit more work over the next couple of quarters to kind
23 of maybe finesse a little bit and use a little bit more
24 of that macro, or that micro level data to get a better
25 picture of what's happening at the regional level.

1 MR. DIFFLEY: You know, that's useful but,
2 remember, at the regional level the relevant concept of
3 exports, and Jerry alluded to it, is not international
4 exports, but exports to other states.

5 MR. MARTINEZ: Correct.

6 MR. NICKELSBURG: And the more difficult part of
7 that is services.

8 MR. DIFFLEY: Absolutely.

9 MR. WILLIAMS: If I could here, I'd like to
10 switch to kind of the regional dimensions of this
11 recovery that all of you mentioned in your initial
12 remarks, the strong growth in the coastal region and the
13 lighter growth in the Central Valley.

14 Do you see this as sort of a new sort of
15 structural change in the California economy where we are
16 going to have sort of a permanent bifurcation, where
17 you're going to see all this better growth in the coast,
18 than in the inland region?

19 Or is this just kind of an extended case of what
20 we've seen in past recession recoveries where, you know,
21 we've tended to get the bigger growth first in the
22 coastal regions, you get the prices bid up, pump prices
23 bid up, spill over into the Central Valley in terms of
24 population, construction activity and, ultimately,
25 business?

1 Is it -- so, I guess the question here is over
2 the next three to five years, and five to ten years, how
3 do you see the central inland regions of California
4 doing relative to the coast?

5 Do you want to take a shot at that?

6 MR. NICKELSBURG: You know, since I spend a lot
7 of time worrying about the inland regions of California.
8 The first thing to understand is that the bifurcation is
9 not new. You know, people like to show these
10 unemployment rates and how terrible it is in the inland
11 areas. The bifurcation, in some ways, was just as
12 dramatic, if not more so, a few decades ago.

13 In fact, you know, if you compare the level of
14 increase in unemployment, you know, compare the 90s or
15 even the 80s to where we are at today, some of what you
16 see in places like Los Angeles is more alarming than
17 what you see in Fresno. They had a 16 percent
18 unemployment pretty much for the entire decade of the
19 90s and off into the -- the past, beforehand.

20 So, some of this bifurcation is just a
21 reflection of the nature of the underlying economy.

22 The biggest industry in the Central Valley is
23 agriculture, which by measures of profitability and
24 revenues is setting records year after year through this
25 thing and it has not translated, though, into employment

1 growth. And this sector is a really strange employment
2 relation. You can't really forecast with job growth and
3 the data is somewhat problematic.

4 So, interestingly, the largest industry in the
5 region is doing quite well, but it hasn't sort of
6 translated into middle class income growth or job growth
7 per se at this point.

8 So, that's one aspect of it.

9 From a housing thing, it's really quite
10 interesting because you talk about that cycle and, you
11 know, we've been plotting home price ratios between the
12 Bay Area and this area we're focused on.

13 So, if you look at, you know, the price of a
14 three-bedroom home between the Bay Area and San Joaquin
15 County, that price differential, that ratio is higher
16 than it was at the dot.com boom that started the inland
17 migration. It's now about -- that ratio's about four
18 and it was only about three and a half at those times.

19 And it's been there for a few years. And as we
20 see the real estate recovery, the way it's progressing,
21 that's only growing. And so there is some growing. You
22 know, that pressure remains there and I think we're
23 going to see some of that cycle come back again.

24 At the levels that we saw a decade ago? No.
25 But I think it's inevitable that we're going to see some

1 of that growth move inland.

2 And so while I agree that it's the Bay Area
3 that's going to be leading things in 2013 and 2014, if
4 we look out at the second half of this decade and look
5 out a little bit further, you know, we could see that
6 start to reverse itself and look more like the past.

7 MR. MARTINEZ: I agree completely. To me, if
8 you want to talk about the new normal for the Central
9 Valley, the normal was not the experience in the 2000s.
10 It was the earlier years where the Central Valley was a
11 lagging region.

12 What the housing boom and bust showed was I
13 think the fragility of the economy in the Central
14 Valley. Finally, it looked, you know, ten years ago
15 that the congestion in the Bay Area, the rising home
16 prices in the Bay Area, et cetera, was going to lead to
17 that spillover into the Central Valley and Sacramento,
18 amongst the rest of it.

19 And that, hey, maybe the Bay Area -- I mean,
20 sorry, maybe the Central Valley will now grow as a
21 result of the unsustainability or the density that was
22 appearing on the coast. And we saw that dissipate very
23 quickly.

24 The question is whether it comes back and to
25 what extent it comes back and that's -- but that is the

1 key, I think, of Central Valley growth right now.

2 MR. MARTINEZ: I agree there are obviously
3 differences. I don't want to steal too much thunder
4 from the demographics discussion, but when you take a
5 look at the Central Valley, in addition to agriculture
6 one of the big differences is educational levels of your
7 workers.

8 A really good example, and an area that I've
9 looked at the last couple of years, is the Bakersfield
10 metro area, Kern County. Some impressive job gains the
11 last couple of years but when we take a look at it, one,
12 it's still primarily an agricultural county. But also,
13 a lot of the gains the last couple of years have also
14 been because of changes in the price of oil. They have
15 an endowment of oil and they've benefitted from that.

16 But this past year, when you saw oil prices not
17 changing, you did see a lot of that growth start to
18 dissipate, it wasn't benefitting as much though.

19 And again, when you take a look at it, you know,
20 it has done better than its neighbors like Tulare, and
21 Hanford, and further north. But at the end of the day,
22 though, it still has the same demographic and economic
23 makeup as the rest of the San Joaquin Valley, basically
24 agricultural and relatively low education levels
25 compared to the rest of the State.

1 MR. NICKELSBURG: So, two quick comments on
2 that. In the -- in 1990, Los Angeles and extending to
3 other parts of Southern California was really heavily
4 dominated by the aerospace industry. It went through
5 the contraction in the 90s and Los Angeles is the most
6 diversified economy in the State and maybe in the
7 nation. So, you do get a lot of change that happens
8 when you have these kinds of economic crises.

9 And we didn't know the shape of the inland parts
10 of the State, what that's going to look like because of
11 the Inland Empire being different from the Central
12 Valley. But, you know, thinking that it's going to go
13 along sort of in perpetuity I think is belied by the
14 data.

15 And the second, which I think is a wild care, is
16 called the Monterey shale. Were California to develop
17 that and facilitate the use of the oil -- I think it's
18 principally oil, but oil and gas that comes out of that
19 that could generate cheap energy in the southern part of
20 the San Joaquin Valley, central part of the San Joaquin
21 Valley and it could foster new industries. But we have
22 no idea if the Monterey shale is going to be developed
23 or not.

24 MR. WILLIAMS: Thank you. Let me turn to a
25 question from the audience. The question is -- well, it

1 starts with a statement. "California has some of the
2 highest retail energy prices in the country. What do
3 you see is the short- and medium-term outlook for prices
4 of electricity, natural gas, gasoline and diesel?"

5 And then, secondly, "What are the implications
6 of all this for consumer spending and private investment
7 in the State?"

8 Anybody want to take a shot at either of those
9 two questions?

10 MR. DIFFLEY: Well, I'll start off by saying we
11 don't have an explicit forecast of energy prices going
12 forward in California. We'll say they're -- you know,
13 California's always been, to my understanding, at a
14 disadvantage in that regard. So, it does have an
15 impact, a negative impact, relatively.

16 The big issue, though, and it's nationwide, in a
17 number of different places, is the very cheap natural
18 gas available across most of the U.S. And Jerry's point
19 about the Monterey shale is right to that. So, that
20 could be -- you know, I think it's a big player in
21 natural gas prices, power costs for industries, et
22 cetera, across the U.S., and changing a lot of
23 industrial location as a result.

24 MR. MARTINEZ: The same here, we don't really
25 have a state forecast for energy prices. But our

1 natural forecast for natural gas prices continue to be
2 at their current levels, at least through the end of
3 2013 and 2014 for recovery for the U.S. and global, and
4 so I think companies will benefit from that.

5 Because of, obviously, the regulatory nature of
6 electricity and not really going to try to predict that,
7 I'll stick to economics, as opposed to regulated mass
8 factors like that, with tariffs.

9 MR. NICKELSBURG: So, gasoline prices, or
10 petroleum prices are determined in world markets. But
11 as the world economy recovers, particularly as growth in
12 China speeds up, and in India, you know, you're going to
13 see pressure on petroleum prices.

14 California's gas prices are amongst the highest
15 in the country because we require special blends
16 because, you know, we have these mountains that trap in
17 pollution and we've decided that that's what we want to
18 do.

19 The consequence of high-energy prices for
20 consumers is that we're, in California, very low per
21 capita consumers of energy on a household basis.

22 I read recently that, in fact, Prius has become
23 the best-selling car in California. And, you know, so
24 we are responding to the higher prices by conserving
25 energy.

1 But when it comes to the industrial uses,
2 energy-intensive industries are not going to locate
3 here. That's sort of fairly simple. And we'd be hard-
4 pressed to have polices that would attract them absent
5 subsidies for their energy.

6 MR. MICHAEL: Yeah, I think it is true that
7 there is an energy price difference. I actually think
8 that gap of California's energy cost compared to the
9 rest of the country has narrowed somewhat over the past
10 decade. I think it was higher back in the days of the
11 electricity crises.

12 We've seen some prices come up around the
13 country and our energy generation makes us very heavily
14 dependent upon natural gas. So, I think these
15 developments, and I think it's over 15 percent in
16 California, and so I think these developments in the
17 natural gas market are important for us.

18 MR. WILLIAMS: Thanks. Let me turn to an
19 industry question and I think you touched on this a bit.
20 But I wonder if you could give me an idea of what you
21 see looking forward, again, you know, three to five
22 years and five to ten years, in California as the top
23 three growth industries, say, and the bottom three
24 growth industries in the State as a whole.

25 And I'm going to follow that up. I suspect that

1 manufacturing may be on your list on the bottom three.
2 I'd like to hear a little bit more about what you see as
3 the outlook for manufacturing in California, especially
4 manufacturing outside of the high tech area. Is that
5 going to be a viable industry in California or is it
6 going to continue to shrink as a share of the economy?

7 So, if I could start with the first question
8 which is your top three and bottom three, and just give
9 us a quick sense of why you pick them?

10 I don't see any volunteers.

11 MR. MARTINEZ: I'll start off.

12 MR. WILLIAMS: Okay.

13 MR. MARTINEZ: Broadly speaking, I mean, if I
14 had an identifier I'd probably identify technology
15 services, obviously, and kind of lumping in that
16 discussion with technology and manufacturing, especially
17 the high value added.

18 I'm still optimistic on trade, but I'm also
19 including foreign investment.

20 And, obviously, a big headline, you see this
21 every paper that decides to publish this article every
22 other week, with the Panama Canal expansion, what the
23 impact is going to be on the West Coast, especially the
24 Ports of L.A., Long Beach.

25 L.A., Long Beach is still going to be the

1 primary entry point of cargo into the United States,
2 roughly about 40 percent for ocean-bound cargo.

3 Primarily, if you raise the Panama Canal zone,
4 you're actually adding extra days to the trip, which
5 only takes about eight to ten days.

6 And for these businesses, who are often
7 advertising these shipments, once they leave Korea or
8 China, that's just more money for them.

9 And also with air shipments, a lot of the former
10 air force bases in Southern California have been
11 converted to cargo. That's how you ship i-Phones, you
12 know, i-Pads, the high value added.

13 So, I think California's still going to maintain
14 that really strong trade linkages, including foreign
15 investment. I think services, broadly, would be the
16 other area.

17 In regards to non-tech manufacturing, I think
18 definitely it is going to under-perform in terms of
19 employment. Any manufacturing, whether it's technology
20 or non-technology related, I think the cost assumption
21 or the value assumption's going to be the value added.
22 Even before the recession, companies were already going
23 to more capital-intensive production methodologies.

24 And also in our forecast, because I know Kate
25 always has questions about this and I like talking about

1 it, is that for our forecast we do have manufacturing
2 output increasing going into the future, but we have
3 employment going down. So, we do see manufacturing in
4 both tech and non-technology that it could be more
5 productive, more efficient, and more capital intensive
6 on going forward. There's just not going to be as many
7 workers going to work to be a manufacturer.

8 And the ones that do, again going back to
9 demographics, it's going to be a much more higher skill
10 base, a more proven knowledge type manufacturer as
11 opposed to like my parents, the Vietnam war generation
12 in Southern California were just with a high school
13 degree and more of a blue collar type outlook and they
14 built up the southland.

15 MR. WILLIAMS: I just had a real quick follow up
16 on that. In that sort of world, you know, declining
17 employment but increased, maybe in terms of value added,
18 what sort of energy consumption, what are the energy
19 consumption implications of that sort of outlook?

20 Do you see energy consumption actually rising in
21 terms of the manufacturing sector or declining?

22 MR. MARTINEZ: Well, you know, Jerry had a
23 really good point because, actually, California is
24 second only to Hawaii, obviously Hawaii being in the
25 middle of the ocean, in terms of energy efficiency.

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1 MR. WILLIAMS: Right.

2 MR. MARTINEZ: You already see it today in some
3 of the plants. Some of the plants, actually, even with
4 some of the distribution centers. Amazon kind of going
5 full in now that the sales tax situation has been
6 resolved here and a lot of the distribution centers
7 going up in the Inland Empire. They're going to be much
8 more efficient as opposed to the old distribution.

9 In fact, for that type of industrial usage it's
10 very hard to use an old warehouse that was built like,
11 say, in the eighties, nineties or in the last decade, as
12 opposed to what non-store retailers, like Amazon, use.
13 So, there's going to be a lot of that, it's going to be
14 much more energy efficient going forward.

15 MR. WILLIAMS: Okay, thanks.

16 MR. NICKELSBURG: So, a comment that Eduardo
17 made I think is important to reemphasize. And that is
18 that in California manufacturing's not on the decline,
19 only manufacturing employment. And that's true
20 nationwide as well.

21 We are making much more, now, in California with
22 many fewer people. You know, we are using robotics and
23 the like.

24 So, when you look at, you know, these graphs of
25 manufacturing employment going down and you say where's

1 the employment going to be, well, not in -- it's not
2 going to be growing at any sort of outstanding rates in
3 manufacturing.

4 Energy usage though will because you're
5 producing a lot more, even though I agree it's a much
6 more efficient use of energy. You're replacing a lot of
7 workers with machines and you still need to power those
8 machines.

9 In terms of what's not going to be growing at
10 impressive rates; construction, retail, non-durable
11 goods manufacturing. Kind of regardless on the non-
12 durable goods manufacturing.

13 And I think that what will be growing at the
14 faster rates are going to be healthcare, professional
15 business and technical services, so that's, you know, a
16 lot of where the tech industry is, education. And, you
17 know, since Douglas Adams, in his "Hitchhiker's Guide"
18 had four books in his trilogy, I'm going to give you
19 four sectors in my trilogy, leisure and hospitality is
20 the fourth.

21 MR. MICHAEL: Again, the three fastest growing,
22 I think the information and the tech services sector,
23 the services certainly connected to that, and I would
24 say construction and health.

25 I mean construction largely in a rebound effect,

1 not that it's going to, you know, surpass those previous
2 peaks.

3 On the low end, I think what stands out to me
4 are manufacturing and government.

5 You know, the non-tech manufacturing is
6 interesting. I mean, when you compare -- you know, I've
7 seen people saying, you know, California's manufacturing
8 and employment has been negative recently and positive
9 in the rest of the country.

10 I wouldn't read too much into that. I think
11 that's in large part an artifact of where the auto
12 industry is in the U.S. and where it's not, and it's not
13 here. And, you know, if you pull that sector out I
14 think it might look a little bit different.

15 But the non-tech manufacturing, I think this is
16 an interesting question. I mean, when you're talking
17 about -- there's a lot of talk nationwide about some
18 sort of renaissance in manufacturing, and re-shoring,
19 and all this stuff, and I believe that some of that
20 could happen, but I'm not convinced California's going
21 to be the epicenter of that economic change.

22 MR. DIFFLEY: Well, I'd like to add a couple of
23 things. On Jeff's last point that, you know, talking
24 about the renaissance of manufacturing is largely about
25 cheap natural gas. You know, enabling a cost

1 competitiveness that didn't exist.

2 I'll mention a couple of sectors. I agree with
3 the industry choices that my colleagues made. I'll
4 mention a couple of sectors they were thinking of, no
5 doubt, but didn't mention explicitly, biotech and
6 bioscience, very important.

7 Green environmental services and related
8 products, one thing I think is important is California,
9 with its energy efficiency, is well ahead of the curve
10 of the rest of the U.S.

11 If the rest of the U.S. wants to follow, right,
12 with the similar type of regulatory structures as
13 California, California firms will have a natural
14 advantage because they've already done it. And that's
15 actually a competitive advantage, a potential
16 competitive advantage down the road.

17 MR. WILLIAMS: Thanks. You mentioned the green
18 economy and this is a question I just got from the
19 audience, so I think if the panel wouldn't mind
20 responding to sort of a general question about their
21 views of the viability of the green economy in
22 California, and what do you think it means for jobs,
23 income, and visual impacts? Do you think it's a major
24 factor in the outlook over the next few years or not?

25 MR. MARTINEZ: It's not going to be

1 manufacturing based. I think the last couple of
2 quarters we've seen a big shake out of a lot of the
3 solar panel manufacturers, especially in the Fremont
4 area, and we mention that specific name, but even some
5 of the smaller companies.

6 But what you do see, though, of the surviving
7 companies, they're no longer solar panel manufacturers,
8 but they're more consultants or broad spectrums, from
9 like the financing of panels, working with financiers in
10 San Francisco, in particular, in the financial district,
11 or some parts of Orange County. But they're also
12 working as the chief contractors for solar development
13 projects across the country in developing farms, even
14 working with the military, trying to increase the use of
15 solar.

16 So, I think with the surviving green technology
17 here in California, it's going to be much more broad-
18 based, with the R&D, the technology, the financing of
19 the panels, and being more of a consultant overseeing
20 the entire systems, as opposed to trying to compete with
21 cheap, overseas, Chinese, which they're not going to be
22 able to do that from here in California.

23 MR. NICKELSBURG: There was an interesting study
24 done at Berkeley on green jobs and its impact, and part
25 of what they found was that as you have placed fossil

1 fuel electrical generation plants with renewable energy
2 plants, you have the initial impact of you've got to
3 build them. But then once you build them, they take
4 many fewer people to run them. And so, you know, kind
5 of when you look at this, the absence of technology
6 that's developed in California, and so the effect is
7 going to be there, but small.

8 MR. MICHAEL: Yeah, I think we're going to --
9 you know, through policy are certainly forcing some
10 growth in the green economy in the short run, you know,
11 we do things like earmark Prop 39 funds specifically to
12 buy energy efficiency things. And, you know, you're
13 going to have a demand increase and growth in that
14 sector.

15 I think, you know, the longer run question of
16 whether having this greener energy mix in the State and
17 how it affects the State's competitiveness, positively
18 or negatively in the future, is probably more important.

19 MR. WILLIAMS: Thank you. Let me turn to a
20 question we touched on briefly, earlier, when we talked
21 about residential construction activity.

22 What about the nonresidential sector as a whole,
23 when do you see that sort of approaching pre-recession
24 peaks, if ever? What's your general outlook for nonres
25 construction?

1 MR. DIFFLEY: Well, if I can start, the -- I
2 mean, the nonresidential cycle lagged the residential
3 cycle, so we're not going to see a return quite so soon.
4 But the big issue in nonresidential construction is
5 jobs.

6 And so we're still talking, as I mentioned
7 earlier, and I'm sure the others agree, that it won't be
8 -- you know, it will be 2015, late in 2015 before
9 California has the same number of jobs as it had in
10 2007. And that translates directly into demand for
11 office space. Never mind the fact that, you know,
12 corporations are moving to less office space per worker,
13 anyway.

14 MR. MARTINEZ: What was mentioned before, the
15 residential housing market being really localized, I
16 think it's the same situation with nonresidential.
17 Obviously, what's happening in the Bay Area,
18 particularly in San Jose, is much different than, say,
19 Orange County where they're still suffering from an
20 overhang, I guess from an implosion of the subprime
21 market, so you still have really high, elevated
22 vacancies.

23 So, by region it's really going to be really
24 specific as to what kind of recovery they're still
25 trying to get from going into the recession.

1 And like I mentioned before, a lot of the drive
2 in industrial use is because the industrial use being
3 used today, even distribution and things is different
4 because it's more robotics related. It's a combination
5 of the just-in-time inventory, especially with the
6 online sales, as opposed to existing industrial space.

7 So, lots of the spec activity and distribution
8 centers in the Riverside area, in particular, are these
9 new types of retailers, new types of business models.

10 I think a lot of the uptick, especially
11 industrial buildings, is more for more of these emerging
12 industry usage, as compared to the pre-recession, so
13 that's going to drive a little bit of it.

14 MR. NICKELSBURG: I agree with all of that. One
15 place where you're seeing nonresidential come back, now,
16 in California is in hotels. So, we're seeing a number
17 of new hotels being built or, you know, in process in
18 design.

19 And then the second comment I'd make on that is
20 that these multi-family projects that are going up are
21 overtimes mixed use projects, so they'll have some
22 retail on the first floor, and they'll have some office
23 space, and then residential. Possibly to spread the
24 mix, possibly to, you know, serve sort of a new ethos.
25 So, you get a little bit there.

1 But what my colleagues on the right have said I
2 agree with completely.

3 MR. MICHAEL: And I think that the commercial
4 sector may be more bifurcated regionally than the
5 residential sector. When I look around, certainly
6 inland California I see, you know, in the commercial,
7 retail, office space and I think Sacramento's a
8 wonderful example of that, of just really high vacancy
9 rates. And I think it's a long time until there's going
10 to be a need for additional product there.

11 And it's true, I think it's important, you know,
12 businesses are putting more workers into fewer square
13 footage and I think that's a trend that's larger than
14 people within the housing and residential in getting by
15 with less square footage for their housing.

16 I only have one positive point and that, you
17 know, one thing we've learned is that the shelf life of
18 the obsolescence rate of office buildings is quicker
19 than many think.

20 A lot of -- for instance, in the northeast we're
21 finding that a lot of the -- now vacant, 20 percent
22 vacancy rates of offices built in the 1980s, when there
23 was a big construction boom, are probably not going to
24 ever be occupied because of the changing nature of
25 technology, et cetera. They'll opt to build brand-new

1 space.

2 MR. WILLIAMS: So, let me turn to sort of a
3 regulatory type of question here, one from the audience.
4 Can you please describe your view of the impact on
5 California -- this says in 2020, but I would say over
6 the next five, ten years -- of the greenhouse gas cap
7 and trade program, and the low-carbon fuel standards.
8 How do you see them impacting the California economy
9 over the next five, ten years?

10 Anybody care to take a shot at that one?

11 MR. MARTINEZ: I think someone mentioned
12 earlier, a lot of it depends as to how unique it is to
13 California or how many other states or regions are also
14 incorporating that. If California's sort of an island
15 by itself, yeah, definitely that it's going to impact
16 the State's comparative advantages.

17 The feasibility, just the affordability of the
18 sector industries.

19 However, if it's more broad-based, there's other
20 states, especially in the west, perhaps some of the
21 Canadian provinces do that, I think it kind of reduces
22 the differences.

23 I think to really tackle that question, I think
24 what you would have to see is how different California's
25 regulatory environment is going to be, the options where

1 the companies can go to if they want to get around it.

2 MR. WILLIAMS: Okay, anybody else care to
3 comment on that?

4 MR. DIFFLEY: I absolutely agree.

5 MR. NICKELSBURG: Yeah, I think the answer is
6 that we really don't know. But a component of this,
7 which I think we ought to pay attention to, is
8 regulatory enforcement of regulatory compliance because
9 it will have much less of an impact if it's very clear
10 how to comply with it, than if as with some of the other
11 regulations in California it's very difficult to tell
12 whether you're complying or not, and that becomes a very
13 costly exercise.

14 MR. DIFFLEY: What we've done with the cap and
15 trade, though, is to reduce -- hopefully, reduce
16 regulatory costs significantly, so that was in the
17 details.

18 MR. NICKELSBURG: Right. That, hopefully, is
19 the question.

20 MR. MICHAEL: Yeah, the relative issue as
21 compared to other regions I think is really critical of
22 whether this turns into a positive or a real drag on the
23 California economy.

24 But there are -- I mean, there are some sectors
25 that are really impacted. You know, in the regions I

1 work in I am concerned about the impact particularly on
2 food processors, and some of those industries that are
3 energy-intensive and impacted by these rules.

4 MR. WILLIAMS: Thank you. Let me turn to a
5 technical question. You know, I think, I suspect all of
6 you, when you do forecasts have either internally, or I
7 believe you publish kind of optimistic alternatives and
8 pessimistic alternatives to your baseline forecasts.

9 And I think this question, I know when I used to
10 do forecasts this was something that I struggled with,
11 and I think the Commission staff kind of has a similar
12 question, which is what sort of confidence interval do
13 your typical alternative forecasts around your baseline,
14 what do they represent?

15 Do they represent a 95 percent confidence
16 interval or are they more just illustrations of
17 alternatives?

18 Anybody care to address that? I don't know if I
19 made that question clear. It's sort of the question of,
20 you know, are those optimistic and pessimistic
21 alternatives true, you know, boundaries around what you
22 see as your mainline forecasts?

23 MR. DIFFLEY: Well, I'll tell you what we -- and
24 I had a chance to do. I mean, we do put probabilities
25 on the optimistic alternative and the pessimistic

1 alternatives and we view them as well-thought out, you
2 know, perspective events that could happen any time.
3 But they're not statistical derivations in the sense
4 that you don't think of they're results of a regression
5 leading to a confidence band around the parameter
6 estimates of the forecast. They're actually, you know,
7 chosen probabilities given our sense of what the
8 environment will be, and many times the political
9 environment or worldwide environment.

10 Now, you know, typically, we try to talk about a
11 20 percent probability of an optimistic scenario and a
12 20 percent probability of a pessimistic scenario. We
13 put business cycles in because we know when we over
14 think a recession will happen sometime in the future.
15 We can't identify where it is but -- exactly where it
16 is, that would be too much to do.

17 But if we think about the timing pattern and we
18 decide it's reasonably possible that there will be
19 another recession in 2015, say, we can run the scenario
20 and see what the impacts are on the economy and describe
21 some probability around it.

22 What happened in this last cycle, I'll point out
23 because I think it comes from one of the prepared
24 questions as well, so I'll just veer off into this.

25 What happened in the last cycle was not that we

1 hadn't anticipated the possibility of recession, we
2 always had. We always had that environment. We just
3 didn't anticipate that it would be so deep and so
4 severe, and we all learned a bad lesson from that.

5 MR. MARTINEZ: We do something similar at
6 Moody's at it's more of the probability of an occurrence
7 happening. So, for instance, the pre-fiscal cliff, you
8 know, the first part of it happened over the holidays,
9 you know, we had 55 percent probability under our fiscal
10 cliff scenario that some kind of deal would have been
11 done, a 35 percent probability that they would have done
12 nothing, that the full weight of the Budget Control Act
13 would have gone into effect. And, you know, an even
14 worst case 15 percent scenario where it would be even
15 worse on something globally.

16 So, when we take a look at it, when we take a
17 look at our different scenarios, we take a look at just
18 the probability of this alternative scenario, worst
19 case, you know, deeper, new recession, or an upside, you
20 know, even stronger growth in the forecast in 2013. We
21 try to focus a little bit more on that, just assigning
22 how much of a probability that will come to fruition.

23 MR. NICKELSBURG: So, we do it a little
24 differently, we try and identify the risks. And so, for
25 example, the risk of jumping off the fiscal cliff.

1 Don't try and give it a probability, but basically say,
2 you know, this is something that you should watch. If
3 you want to assign probability, go ahead. But if this
4 were to occur, here is what we think is the impact of
5 it.

6 We don't try and put a probability of the Euro
7 coming apart, but we do like to say this is a risk, it's
8 something you ought to watch. And were you to see it's
9 starting to come apart, this is what you can anticipate.
10 And that's kind of the way that we approach it in trying
11 to get out the information which I think is really
12 important, which I think the other methods that have
13 been described also do, that we make a forecast, it's
14 what each of us think is our most likely scenario. But
15 we all know that it is just a forecast and there is some
16 band around it, and I think it's important to indicate
17 that these forecasts, you can't take them literally, you
18 can only take them as a likely scenario with risks
19 associated with it, or probabilities of being to one
20 side or the other.

21 MR. DIFFLEY: Right, the fiscal cliff is a great
22 example. I mean, we put a probability on it in
23 practice, but when I go to the State Legislatures, the
24 State Legislators in the last few months, I'd always
25 preface it with, well, you guys probably know better

1 because it's the political judgment of what the
2 percentage risk you should put on it, but here's the
3 scenario.

4 MR. NICKELSBURG: Right and we had that with,
5 for example, Prop 30 here in California. So, you had
6 sort of two different scenarios if Prop 30 passed or
7 not, and it was sort of anybody's guess whether it
8 would.

9 And so, you know, we have maybe a little bit
10 more of that in California than in the nation.

11 MR. MICHAEL: And I disagree. The key point is
12 these scenarios aren't like -- you know, optimistic
13 isn't consistently, you know, one standard deviation
14 above, you know, what the baseline forecast is. And
15 some people are familiar with that sort of thinking and
16 that's not the case.

17 MR. WILLIAMS: Thanks. Before we go onto the
18 next question, I just want to remind people listening in
19 on WebEx that they can send in questions that I'll pose
20 to the panels.

21 I think I'd like to go back to something that
22 was raised, I think, in the opening remarks about, you
23 know, the fiscal cliff, the negotiations, what's --
24 what's enacted so far at the Federal level and what may
25 be enacted here over the next 30 to 60, 90 days.

1 And I'd like to get your sense of how you see
2 California faring well to the rest of the country, both
3 with respect to what was passed in terms of the tax
4 increases in January, or late December, and what you
5 see, you know, going ahead when you look at where the
6 potential cuts may be. How you see California, sort of
7 bottom line, looking at all this together, faring
8 relative to the nation as a whole. Are we going to be
9 hit harder by these changes or are we going to come out
10 a little less scathed than the rest of the country?

11 MR. MICHAEL: Well, since Phil Mickelson just
12 moved to Florida as a result, you know --

13 MR. DIFFLEY: It's a big example.

14 MR. MICHAEL: Yeah, it's a big example. You
15 know, I think a lot of it hinges on how the different
16 sector fares, and the spending cuts, I think that's
17 certainly the biggest issue for California and how it
18 may hit here in a differential way.

19 MR. NICKELSBURG: Yes, on the defense sector,
20 and actually I have a question for those of you who
21 study it more than I do. We've got two things going on
22 in the defense budget. One is that the budget, itself,
23 is shrinking.

24 Actually, maybe three things, the budget itself
25 is shrinking, the mix of expenditure between

1 consumables, things like bullets and bombs that you blow
2 up, and durables is changing, and we don't produce much
3 in the way of consumables, but we produce more durables
4 in California, and the stated philosophy of the Obama
5 Administration is to realign towards Pacific Asia.

6 So, what that ought to mean is that you start
7 moving people and resources towards Pacific Asia,
8 towards San Diego for example, and Pearl Harbor, and
9 away from some of the East Coast bases.

10 How all of that adds up to what happens in
11 California on the defense side, plus or a minus, I guess
12 I have no idea. I don't know that anyone else does, but
13 I hope so.

14 MR. MARTINEZ: Jerry brings up a really
15 important point because when you take a look at the
16 impact of just defense, regardless of the fiscal cliff,
17 I think California, especially with the shifting of
18 resources from Virginia Beach and Norfolk to San Diego
19 and Hawaii, I think California as a whole, especially
20 the San Diego area does come out as a net winner on that
21 issue of the Pacific focus.

22 However, because a lot of the R & D and some of
23 the construction that still does take place in San Diego
24 and Orange County, those budgets are probably going to
25 decline regardless of the full weight of the fiscal

1 cliff or not. In fact, the last couple of years Boeing
2 actually has already been downsizing a lot of their
3 usage, consolidating their locations in Orange County
4 and L.A. Some of that was actually related to the Space
5 Shuttle, too, so once the Space Shuttle Program and they
6 did a lot of it, in between flight work, still, in the
7 L.A. and Orange County area.

8 So, that downsizing has already been going on
9 and it's part of a continuum going forward.

10 In regards to the fiscal cliff, I see it more as
11 a direct and indirect impact. So, if the full weight of
12 the cliff goes forward, as has already been mentioned,
13 obviously San Diego will be hit really hard because of
14 the defense R & D.

15 However, there's also an indirect effect so if
16 the full weight, the full ten-year time span of the
17 cliff, our scenario, that's actually another recession
18 for the U.S. So, then other metro areas in the State,
19 like San Francisco, like San Jose, that do rely on
20 business spending, L.A., obviously with the
21 entertainment industry, or linkages like with the
22 commercial production, advertising and such, they would
23 actually be impacted even directly.

24 So, the first impact, the full weight of the
25 cliff will be military, San Diego, the Southland, and

1 indirectly again, the full scary, worst case scenario
2 will be those consumer-based industries in the State.

3 MR. DIFFLEY: Well, I had a point on the revenue
4 side. You know, as a high income state, you know, most
5 of the outcomes in terms of revenue enhancements will
6 more severely hit California in terms of disposable
7 income than other states, and so that's a factor to
8 consider.

9 But really, you know, as we've all mentioned,
10 the details matter here as to exactly how it will work
11 through whatever the accommodation to whatever the lower
12 Federal spending level is.

13 MR. WILLIAMS: A little follow up here, since
14 Jeffrey mentioned Phil Mickelson. Let me use that as a
15 segue to sort of a related question.

16 You know, with the increases in the Federal
17 rates and the passage of Prop 30, and the new increases
18 at the State for high-income individuals, is that going
19 to matter? Is it going to have an impact on the level
20 of investment, you know, migration patterns of high-
21 income individuals? Do you see that as being a factor
22 in the outlook over the next several years, a
23 significant factor?

24 MR. DIFFLEY: No, I think the tax increases
25 talked about led to extreme overreaction from Mr.

1 Mickelson.

2 (Laughter)

3 MR. NICKELSBURG: Yeah, so I looked at what
4 happened in the wake of tax increases in the past, in
5 California, ten tax increases on that upper bracket.
6 And the answer is we can't tell that anything really
7 happened and so it's hard to say from the data that, you
8 know, there's going to be anything.

9 Now, we know that at the margin there will be a
10 few people who will move out but, you know, when you
11 aggregate it it's kind of difficult to see.

12 But I think kind of the more important thing is
13 so these taxes are supposedly temporary. If we see
14 reform here in Sacramento, in the way in which State
15 government is financed, so we see tax reform going
16 through during this period when we have budget
17 surpluses, then I think, you know, the impact will be
18 actually positive, because it will mean that Prop 30 was
19 taken in the most constructive way and State government
20 is functioning properly.

21 If we see a pattern of woo-hoo, we've got more
22 money, let's spend more money because we've got it, and
23 then two things will happen with Prop 30 because it goes
24 on for seven years. And though I'm not predicting a
25 recession in that period of time, the end of that is

1 long past the average length of time between recessions
2 in the U.S.

3 If we get a recession, the next downturn will be
4 magnified with these top rates in California and then I
5 think people will start looking at it and saying, you
6 know, none of these guys -- you know, they promised us
7 they could clean up State government, but it's just more
8 of the same.

9 And then you might start seeing an impact of
10 less investment as a result of the Prop 30 tax rates and
11 that the expectation that it was the solution is just
12 tax the wealthy rather than fix the problem.

13 MR. MARTINEZ: I would agree that because it is
14 at the highest margins we're really not -- we haven't
15 adjusted our forecasts too much to reflect that.

16 And I think with the golfer, Mr. Mickelson, he's
17 certainly a unique example in that he's sort of like a
18 one-person human capital operation. You know, he can
19 live anywhere in the world. As long as he keeps his PGA
20 card and his endorsement, he's still going to be a good
21 investment to himself.

22 People who are relying on human capital, larger
23 scale human capital, especially like the tech industry
24 in the Bay Area, entertainment services financed in
25 Southern California, agricultural distribution in the

1 Central Valley, those clusters, those endowments are
2 still there, basically, so it would be harder to kind of
3 move those out, you know.

4 You know, what a lot of tech people say, you go
5 to San Jose because that's where these things are, and I
6 really don't see that changing too much.

7 And as Jerry mentioned, also, too, something in
8 our forecast, although we are optimistic on the State
9 government, we think all the hemorrhaging, especially
10 from employment is starting to go in the rearview
11 mirror, we still all will be concerned about local
12 government.

13 And I think, like you mentioned, if it's used
14 adequately, with intelligent design as they know what
15 they're doing, and not doing false promises, I think
16 that helps put a floor on local government. Because
17 going forward that's still a really big area in our
18 forecast statewide, and also in specific metro areas,
19 especially in the metro areas that were housing
20 distressed local government is still a drag on the
21 economy going forward.

22 MR. NICKELSBURG: It's not just a -- not to beat
23 on Phil, but I looked at the example because that's not
24 the only margin in which he can adjust his economic
25 activity. He may have been talking about, you know,

1 playing one fewer tournaments or two fewer tournaments
2 in a year. And the fact that the California hits are
3 coming at the same time as the U.S. hit, I think it just
4 makes people in those brackets take a hard look at the
5 whole picture and, you know, how they respond to those
6 rates.

7 But I'm not predicting a major exodus. I'm sure
8 some of the guys who play for the Kings are pretty
9 excited to go to Washington and retain a higher after-
10 tax income.

11 But, I mean, that's easier to measure. I wonder
12 about the impacts on sort of the in-migration and inflow
13 of people into California and how kind of a deterrent
14 that can be to companies recruiting talent, and just
15 like the housing costs and the other issues, on the
16 increment it can be an impediment.

17 MR. WILLIAMS: Well, thank you. I think we have
18 time for one last question and it's from Commissioner
19 McAllister, who is listening in on WebEx.

20 And he looks at the panel and we've talked about
21 the outlook for construction, residential and
22 nonresidential construction in terms of new building.
23 But the question he has is what about investment trends
24 in existing properties?

25 On the residential side, you know, are people

1 staying in their homes? If they're staying in their
2 homes, are they expanding, are they building more, and
3 to what extent would that maybe offset, you know, some
4 of the weaknesses we might be otherwise seeing because
5 of the slower growth in new construction activity?

6 Anybody care to touch on those questions?

7 MR. DIFFLEY: I'll start with making one point
8 about that. You know, one of the major funding
9 mechanisms for household investment, remodeling, et
10 cetera, was the home equity market, which has now
11 gone -- continued to be strapped because so many people
12 lost so much equity in their homes during the course of
13 this crisis. So, you're not going to see that type of
14 remodeling activity that you did in the last decade

15 That said, it's going to be rising now, again,
16 as incomes come up and jobs become more prevalent.

17 MR. MARTINEZ: I do think with additions and
18 miscellaneous work, the way the permits are measured and
19 structured, you should see an uptick.

20 But kind of related to this, we already are
21 seeing, and we kind of do see this going forward, is a
22 lot of new stuff, actually moving infill on development,
23 especially in the larger metro areas.

24 So, you may have -- there just isn't a lot of
25 space available in a lot of the coastal areas. You may

1 have some existing houses that may be torn down and
2 developed into new buildings that, again, like I
3 mentioned before into the changing demographics, the
4 larger family sizes, and other household creations, so I
5 think the infill trend is probably going to continue
6 going forward.

7 MR. DIFFLEY: Just a quick comment. Check at
8 yesterday's *New York Times* and you'll see the results of
9 a competition to design, I think it's a 370 square foot
10 living space in Manhattan.

11 MR. NICKELSBURG: Actually, as you guys know,
12 San Francisco, I think, actually approved that.

13 Yeah, I don't have anything else to add.

14 MR. MICHAEL: On the point you mentioned,
15 actually some time a while ago, this could be a real
16 story on the commercial side as you talk about the
17 obsolescence of the buildings. And I think we see a lot
18 of this activity as housing units move from the owner
19 occupied to the renter occupied market, and we see the
20 turning of the foreclosure properties. A lot of these
21 properties are in poor condition and require renovation.

22 But as they move and if they stay in the rental
23 side, in the rental market, you'll probably see less of
24 that activity than you would see if those same
25 properties were owner occupied.

1 MR. WILLIAMS: Well, thank you all very, very
2 much. I really appreciate your versatility and you all
3 have been very quick on your feet. We've been throwing
4 questions from one end to another and there hasn't been
5 a lot of flow, but you guys have done an absolutely
6 great job of responding to questions that I've had and
7 that the audience has had.

8 So, I think we're -- the plan here is to move
9 fairly quickly from the Economics Panel to the Business
10 Panel. And as soon as I can, I will introduce the
11 Business Panel and we will get moving.

12 Well, without further ado, let me continue here.
13 I think we're going to sort of go through this session
14 pretty much the same way as we did the last one. We're
15 going to ask the panelists to give opening remarks of a
16 few minutes and then we're going to basically throw it
17 open for questions.

18 You know, I have some here to start and I would
19 encourage you to keep coming with your questions and I
20 will try to get to as many of them as I can.

21 On the panel here we've had a couple of last-
22 minute changes. But what I'd like to do is thank you
23 very much. Let's just go through and give very quick
24 introductions, very brief renditions of your bios,
25 highlights, at least what you put on first, sort of

1 highlights, anyways.

2 So, in no particular order here, I think the
3 first one is Michael Rossi, who is Senior Advisor for
4 Jobs and Business Development in the Office of the
5 Governor.

6 And in this role, Mr. Rossi is the point contact
7 between California businesses and workforce leaders in
8 the Administration. He's also the Governor's key
9 adviser on regulatory, legislative and executive actions
10 aimed at facilitating job growth in California,
11 something that is near and dear to all of our hearts.

12 The second person is Gino Di Caro, who was able
13 to make it here on very short notice, I understand. He
14 is the Vice President of Communications for the
15 California Manufacturing and Technology Association,
16 where he's been for 17 years.

17 Third is Silvio Ferrari with the California
18 Building Industry Association. Silvio currently serves
19 as the Vice President of Legislative Affairs for this
20 organization. He was hired by the Association in 2009
21 to serve as a staff engineer, in which he assisted the
22 Technical Department with all issues related to
23 residential building codes, including energy efficiency,
24 renewable energy, rebuilding, fire, life safety and so
25 forth.

1 So, the next person is Gina Grey, who's the Vice
2 President of Strategic Policy for the Western States
3 Petroleum Association where she provides policy advice
4 on a wide range of Association issues. Ms. Grey has
5 spent 24 years with the Western States Petroleum
6 Association and is focused on -- has been focused on
7 refining fuels in the marketing side of the petroleum
8 industry in the Western U.S.

9 Next is Anne Smart, who is the Director of
10 Energy for the Silicon Valley Leadership Group. And her
11 responsibilities at this Leadership Group includes clean
12 energy advocacy, energy efficiency, Smart Grid and data
13 center efficiency, and also organizes the Energy Summit,
14 Data Center Efficiency Summit, and the Customer Energy
15 Solutions Partnership with the Pacific Gas & Electric
16 Company.

17 Lastly, Loren Kaye, who is the President of the
18 California Foundation for Commerce and Education, this
19 group is affiliated with the California Chamber of
20 Commerce and they serve as a think tank for the
21 California business community.

22 Mr. Kaye is also a Gubernatorial appointee to
23 the State's Little Hoover Commission, and has served in
24 a senior policy position for Governors Pete Wilson and
25 George Deukmejian.

1 So, with that as a brief introduction I'd like,
2 if you don't mind, each of you perhaps providing some
3 introductory remarks on how you see things going in the
4 business community in California.

5 Perhaps I'll just start at this end. Loren,
6 would you like to start or I'll take volunteers. Go
7 ahead. It's up to you.

8 MR. KAYE: I was going to -- seeing that we have
9 such a large and diverse panel, mostly of folks who work
10 in the business community, and I wanted to avoid -- I
11 wanted to avoid repetition. And anticipating that there
12 might be a lot of folks kind of going through the
13 business plan and talking about the troubles of the
14 recession and government regulation, and business
15 climate, and the like, I was going to take a slightly
16 different path, and then we can, you know, circle back
17 if there are things that are left unsaid.

18 And what I wanted to do was actually put on my
19 other hat, which is a Commissioner on the Little Hoover
20 Commission, which is a bipartisan, independent group
21 that's appointed. I'm an appointee of the previous
22 Governor, under some Legislative appointees, as well, as
23 well as two appointees by the current Governor.

24 And we take a look at State activities and look
25 for efficiency and economy opportunities.

1 But one thing that we -- our most recent report
2 that we've released was on California's energy climate,
3 and it's called "Rewiring California: Integrating
4 Agendas for Energy Reform."

5 And I just wanted to highlight this because I
6 think it's very apt to the development of the Integrated
7 Energy Policy Report and it's something that I hope that
8 the Energy Commission and the staff take note of because
9 I think it's quite relevant.

10 And I'll just take a minute to summarize what we
11 found and recommended, because I think it's very
12 relevant to how business and economic developers view
13 opportunities in California, where energy is a very
14 large cause for many -- for many businesses that are
15 thinking about investing or remaining in California, and
16 kind of what they see as the future role.

17 And our main concern was that the -- that
18 California has passed and is implementing a number of
19 really important and, in some cases, landmark laws and
20 regulations that are geared toward a number of different
21 agendas. And whether it's carbon reduction, or energy
22 independence, or reduced use of petroleum, or improved
23 air quality or water quality standards, all of these
24 different regulations and laws are and will have an
25 effect on the cost of energy, all sorts of energy,

1 fuels, electricity, gas, but in particular electricity.

2 And our concern is that, you know, that while
3 each of these laws is being, you know, appropriately
4 implemented by the various agencies that there is not an
5 overarching look at what this means for the cost and
6 reliability of energy, in particular electricity.

7 And we've had some enormous successes in energy
8 policy and electricity use over the years and, in fact,
9 I want to commend Governor Brown who, this morning,
10 basically, you know, he gave credit to something that he
11 initiated in his first administration, which were energy
12 efficiency standards. And he claims that over the last
13 three decades they've saved California \$65 billion and
14 have resulted, basically, in flat energy use.

15 And, you know, that's something that -- but
16 that's the base that we're building off of here, we're a
17 very highly energy-efficient economy and we're being
18 asked to do a whole lot more with various regulations
19 ranging from cap and trade, to RPS, once-through cooling
20 by the Water Board, and the like.

21 So, my message this morning is to consider the
22 overall cost of these regulations and future regulations
23 will have on electricity costs and our main -- our main
24 recommendation was to take a look at the RPS, AB 32, the
25 Water Board's once-through cooling, the Governor's goal

1 of 12,000 megawatts of distributed generation, and
2 anything else that's coming up in the near future and to
3 look at them comprehensively in terms of what the costs
4 are, and then use that as a framework to both -- both
5 for implementation and for, you know, understanding the
6 effect it's going to have on economic development and
7 business retention.

8 So, I'll just leave it at that and we can get to
9 some of the other business climate issues later.

10 MR. WILLIAMS: Thank you very much.

11 Gina.

12 MS. GREY: Thank you. First of all, I just
13 wanted to add to my resume a little bit to give people
14 context. I have not just worked 24 years with the oil
15 industry. I've also worked for the electric utility
16 industry and also with South Coast AQMD. So, I've had a
17 little bit of a broad-brush approach to issues.

18 But I am sitting in today for Cathy Reheis-Boyd,
19 who is our President of WSPA. And, unfortunately, she
20 is in Southern California today dealing with other
21 issues.

22 I think, first of all, some of you may or may
23 not be aware as to what WSPA is and so I just want to
24 give a two-second overview. And we do represent 27
25 companies that do book upstream which, in our lingo,

1 that's exploration and production, as well as downstream
2 issues, which is more of the refining and marketing end
3 of things. And we represent these companies in six
4 western states and California is one of our states.

5 So, I would just say that electronically I'd
6 like to thank Commissioner McAllister for inviting us
7 here to discuss our views today and staff as well,
8 obviously.

9 And I think the issue that this panel is trying
10 to address is sort of our perspectives on business
11 climate. And to make it very short, in terms of our oil
12 industry perspective, I would say it's dismal and
13 uncertain. And so just keep those two words in mind as
14 we discuss these issues, for us today, anyway.

15 And I think, as Loren mentioned, there's a
16 number of both, you know, laws and regulations that are
17 currently on the books, about to be on the books that
18 will be directly impacting our industry and, certainly,
19 you mentioned that, you know, this review has to be done
20 for electricity and I would broaden that definitely to
21 all of energy.

22 This Commission here, over the history of this
23 Commission has typically focused on electricity issues.
24 And I know one of our main recommendations from the 2011
25 IEPR, as WSPA, was to make sure that the transportation

1 fuel sector is given equal treatment. And in fact, we
2 recommended at the time that the Commission review the
3 transportation fuel issues on an annual basis, the same
4 as the electricity issues are, because of what we
5 consider to be sort of this impending series of laws and
6 regulations that are coming into play that will
7 potentially have very significant impacts on the
8 transportation fuel arena.

9 And the need for this Commission, which we think
10 has an extremely important role and we continue to
11 support that role, but we would like to see that role
12 sort of expanded to look a little bit more at
13 transportation fuels and not necessarily just
14 electricity.

15 I think, you know, the Economics Panel mentioned
16 some of the positive economic things that may be headed
17 down the pipe, so I don't want to sound all doom and
18 gloom.

19 One ratio was mentioned and definitely there is
20 a possibility of increased, you know, exploration and
21 production of those resources. I think a lot of that
22 will be depending on what laws and regulation come into
23 play with respect to those resources.

24 And I'm sure that's the same for a lot of
25 transportation fuel folks in the State that are

1 considering either something in terms of research, or
2 get it's natural facility on the ground.

3 There are, as you know, in California a lot of
4 laws and regulations in place that are meant to protect
5 the citizens of the State. But on the other side of the
6 coin, it can also either slow things down tremendously
7 to the point where people aren't wanting to move fast
8 because they know it's going to take far too long, or
9 there are other economic considerations that come into
10 play and, basically, make it uneconomic for parties to
11 enter into those types of activities.

12 So, I think, you know, we've said many times
13 before the Commission that, you know, we're not against
14 alternative fuels. Our companies actually invest
15 billions of dollars in alternative fuel development. A
16 lot of that, obviously, is renewable fuel standards, et
17 cetera, federally is encouraging our companies to enter
18 into that type of thing.

19 But again, we are regulated like the utilities.
20 We have shareholders who we respond to, and so we have
21 to make sure that whatever endeavor we're moving along
22 will at some point pan out and be economic.

23 So, as we transition, or evolve, or whatever
24 word you want to use, into the new world and we back off
25 of petroleum and into the new renewable type

1 transportation fuels, I think one of our main messages
2 would just be, and we've said this continually before
3 the Commission, that this be done in a very careful and
4 thoughtful way. That as you move to try and remove
5 petroleum from the scene that that has to be done in a
6 thoughtful fashion so that there is a base
7 transportation in fuel in place as the smaller volumes
8 of whatever alternative fuels you want to pick start to
9 come into play.

10 And as most people understand, so there's the
11 fuel, the vehicle and the consumer. All three of those
12 have to work together in order to move forward into the
13 transition phase.

14 So, in closing, I'd just say the degree and
15 timing of a lot of these changes are critical. And so
16 we'd just, as usual, caution the Commission that when
17 they're looking at these issues for the 2013 IEPR that
18 you look at not only in terms of -- you know, here's the
19 supply and demand scenario and here are the challenges,
20 but to try and step forward one more step and say are
21 there certain things that this Commission feels from an
22 energy stand point needs to be addressed and, therefore,
23 highlight that, versus just a simple report that comes
24 out and says here's the supply/demand scenario, here's
25 where we think it's headed and, oh, by the way, here's

1 some challenges.

2 So, we would really encourage the Commission to
3 do the next step forward and that's consistent with our
4 comment for 2011 as well.

5 MR. WILLIAMS: Thank you very much.

6 Anne.

7 MS. SMART: Hi. I wanted to explain a little
8 bit more about the Silicon Valley Leadership Group. We
9 are a business trade association based in San Jose. We
10 were founded in 1978 by David Packard, of Hewlett
11 Packard.

12 Most of our member companies are in the tech
13 community, the hardware, software. Twenty percent of
14 our membership is in the green technology sector, either
15 a clean energy company, or in transportation, or the
16 Smart Grid sectors.

17 We also have financial institutions, banks,
18 universities, and broadly some staff in organizations
19 that help support the Silicon Valley community.

20 I'm hoping to bring some optimism to the
21 discussion. We do have -- have overcome most of the
22 recession in terms of job numbers in Silicon Valley, and
23 we do see lots of opportunities from the California
24 Energy Policies for our sector. So, thanks.

25 MR. WILLIAMS: Thank you very much.

1 Silvio.

2 MR. FERRARI: Thank you, again. My name is
3 Silvio Ferrari. I'm with the California Building
4 Industry Association.

5 Just so you guys know exactly who are members
6 are, they are the largest public and private residential
7 builders in the State. We have members who are also the
8 smallest mom and pop shops who are doing one unit to 20
9 units a year. So, we really have a full range of
10 representation of the people that we're speaking for.

11 Hopefully, when you walked in the door you
12 picked up a housing chart that looks like this. My
13 opening comments are going to kind of be directed at
14 this and sort of where we've been, and where we believe
15 we're going to go over the next few years.

16 But at first glance what you'll see is 2005 to
17 2009 was obviously the big impact when the recession
18 really impacted our industry and we dropped off about
19 176,000 units over that couple-year period.

20 It came on the tail end of what is really
21 classified as a housing boom for, really, kind of the
22 last decade that we've seen.

23 The housing boom, if you kind of look at the
24 numbers that are there, are numbers that are just over
25 the 200,000 mark.

1 Now, while it is classified as a housing boom,
2 we've only ever hit that 200,000 mark a few times in
3 history, since we began keeping statistics in 1955.

4 And if you look -- if you hear what the
5 Department of Housing and Community Development says,
6 they always estimate that somewhere between 200,000 and
7 220,000 units is required annually to keep pace with
8 population growth and migration.

9 So, only a handful of times have we ever
10 actually not been building annual in what would be
11 considered in deficit.

12 So, we get to 2009, the abyss for housing
13 industry, the worst year we've ever had on record. We
14 then follow that up in '10, '11, and now that the
15 numbers are coming in, in '12, with the second, third
16 and fourth worst years.

17 So, most often we get asked, you know, what does
18 that really mean in real world economic terms?

19 So, just as a reference point, in 2005 the
20 entire housing industry was producing about 960,000
21 jobs, so just under a million jobs for the entire
22 housing industry.

23 In the new construction area, that our members
24 work in primarily, we were seeing an economic output of
25 about \$67 billion that was going to State and local

1 economies.

2 When we got to 2010, that jobs number came down
3 to 176,000, so we'd lost about 80 percent of our
4 workforce out there.

5 That economic output number went from \$67
6 billion down to about 18.

7 So, as we move forward and we believe we are,
8 certainly and the Economic Panel that spoke this
9 morning, that we do believe that we are now on the cusp
10 of seeing a resurgence in housing coming. And based on
11 that differential of where we were, we believe that
12 we're going to be well-positioned to participate and be
13 effective participants in the recovery as we move
14 forward.

15 How fast our recovery is going to be? I think
16 you can go to kind of any one of a number of sources and
17 find that they're going to say, you know, we'll be at
18 positive, good housing numbers between '14, '15, '16 and
19 '17. And we're saying anywhere in there. You know, we
20 don't know for sure.

21 Our members are saying, you know what, we've got
22 projects that are ready and are waiting, but we are
23 looking for the right time for them to be able to react
24 to the market.

25 So, you know, I'll just say that the economy

1 that we've seen has been the deepest and not only the
2 widest recession that we've seen in a very long time,
3 but we believe we're going to start recovering here.
4 So, I'll just stop there.

5 MR. WILLIAMS: Thank you very much.

6 Gino.

7 MR. DI CARO: Well, thank you, Brad. And once
8 again, as Brad stated earlier, my name's Gino Di Caro,
9 I'm the Vice President of Communications with the
10 California Manufacturers and Technology Association.

11 Our president, who really wanted to be here, is
12 quarantined with the shingles as of about eleven
13 o'clock, p.m. last night, so he couldn't attend. And
14 our energy expert was already down south to do a
15 presentation down there, so you get the communications
16 guy, fortunately for you.

17 I want to thank the CEC and Brad for -- and Kate
18 for getting us here. I want to thank my fellow Business
19 Panelists and I want to thank Mike Rossi for being here.
20 Jack, and our staff, and Mike Rossi are constantly
21 trying to find middle ground between promoting the State
22 and understanding the realities of the difficulties
23 businesses have operating in the State. So thanks,
24 folks.

25 Since I'm the communications guy, I'm going to

1 start with a really quick story that Jack and the rest
2 of us use quite often to set the tone for how important
3 manufacturing is to California and anywhere else, for
4 that matter.

5 And I know I don't need to explain it to the
6 economists and most of the people in the room.

7 But a few years ago one of our manufacturing
8 members down south, Ace Clear Water, they are an
9 aerospace supplier, they do precision welding for the
10 aerospace industry and they are a medium-sized
11 manufacturer, you could say.

12 They had some elementary school kids come into
13 their facility for the day. They show them how
14 manufacturing worked, and what their employees did, and
15 how big manufacturing was, et cetera.

16 The kids sat down after a little floor tour.
17 One very stocky kid raised his hand and said I want to
18 be in movies. Why would I want to be in manufacturing,
19 this looks boring?

20 Immediately, one of the plant workers, who had
21 been there about 20 years, stood up proudly and said, I
22 have only a high school education, I make \$72,000 a year
23 and I design and build things that are on the planet
24 Mars. It's pretty exciting.

25 And it's just a good way to outline exactly how

1 important this is, not only to kids growing up and
2 trying to find a career and success for themselves, but
3 the economic impact it has on a large majority of the
4 families up and down the State of California.

5 Some of the panelists earlier said manufacturing
6 is not doing well and it's an unfortunate reality that
7 we can't around. We feel otherwise.

8 And that will lead me to my three slides, which
9 should be up there right now.

10 I'm going to talk a little bit about the state
11 of manufacturing as we see it in California.

12 That first slide is the manufacturing employment
13 decline over the last 12 years; California's roughly
14 lost 630,000, 34 percent of its industrial base.

15 The U.S., at the same time, has lost 30 percent
16 of its manufacturing employment base.

17 While that doesn't seem like a huge difference,
18 that's still a 13 percent difference, we are not doing
19 as well as the rest of the United States as some of
20 these jobs slowly come back, and some of these numbers
21 will prove out and it's concerning.

22 The next chart is we took a look at new and
23 expanded manufacturing investments across the country
24 and by that chart, you'll see that chart goes back to
25 1977. That is California's percentage of the U.S.

1 manufacturing investments for those 30 or some odd
2 years. You'll see in the eighties we had a peak of 17
3 percent. Of course, with the aerospace, we all know
4 about that. We had a peak with the tech manufacturers
5 in the nineties.

6 And we generally did fairly well from 1977 to
7 2000. Once you get to 2000, the thing that stands out
8 most is our highest highs in the last decade were
9 basically our lowest lows for the two decades before
10 that in terms of manufacturing investment as a
11 percentage of the U.S.

12 And if you go to the next chart, we're getting
13 back to employment declines. This is of a more recent
14 nature. This is the last two years, since January 2010,
15 the U.S. has increased in manufacturing employment by
16 4.2 percent, while California's basically been stagnant.

17 And if you look at a manufacturing-rich county,
18 like L.A. County, they're negative 3.3 percent.

19 So, we feel like something's wrong. We feel
20 that these numbers prove that manufacturers have a very,
21 very, very hard time competing in California and
22 growing. We have energy costs that are 50 percent
23 higher, industrial electricity costs that are 50 percent
24 higher than the rest of the country. We have a tax
25 burden that is generally the highest in the country.

1 Most importantly, because we are one of three
2 states that actually has to pay sales tax on the
3 purchase of our manufacturing equipment, South Dakota,
4 Wyoming and California are the only three.

5 And base manufacturing is capital intensive.
6 You have to purchase very expensive equipment. And the
7 minute you need to scale up in California and purchase
8 that equipment, you're already at a competitive
9 disadvantage because you have to pay that sales tax,
10 compared to the rest of the country.

11 We have Workers Comp rates that are in the top
12 five in terms of the most costly in the country. And we
13 have accounting costs -- that's what it is now. In the
14 coming years we have an AB 32 cap and trade auction
15 that's going to heap billions of dollars on industry,
16 billions on the oil industry, hundreds of millions on
17 the food processors.

18 We have a Prop 30 that we've, of course, now
19 passed. It's going to raise that sales tax problem that
20 we just talked about.

21 We have Prop 39 that's going to collect a
22 billion dollars in new taxes from manufacturers. We
23 have an RPS that's going to double. According to the
24 utilities, our industrial electricity rates over the
25 next ten years.

1 We just don't -- the reality of it is we can't
2 compete and we're very, very concerned. California
3 naturally is a great place to be. These companies, if
4 you look at the entire valuation of all these costs,
5 it's impossible.

6 We could probably afford a few of them and the
7 companies will find a way to stay here because they
8 started here and, you know, but once they start looking
9 at this broad spectrum of costs, they just can't make
10 the decision to invest and grow, and that's a real
11 concern of ours.

12 So, with that I'll leave it to Mike.

13 MR. WILLIAMS: Thank you.

14 Mike.

15 MR. ROSSI: You know, the nice thing about being
16 at the end of this panel is I'm just ready to leave
17 because California's clearly falling off into the ocean
18 and I want to get some new water front property some
19 place in Nevada.

20 I mean, you know, the Governor just had his
21 State of the State and I would certainly not suggest
22 that we don't have issues, and I'm happy to discuss
23 those issues.

24 But, you know, the business I grew up in, which
25 is risk management, finance, I spent my entire career in

1 the financial sector of this country and globally, and
2 we tend to deal with the numbers in all of their
3 ramifications.

4 And so let me just give you a couple so we can
5 sort of bracket what we're talking about here.

6 In the last 12 months, California gained 257,400
7 jobs, tied with Texas for leading the nation. I'm not
8 quite sure how that dovetails into the other scenarios
9 I've heard.

10 The third, number two was New York, with
11 132,000.

12 Again -- 123,000, I'm sorry. Again, I'm not
13 sure how that dovetails into -- what was it, June had
14 declined and whatever the words were?

15 UCLA forecasts that we will have 1.3 percent job
16 growth in 2013 and 2.4 job growth in 2014. Now, I think
17 that will probably be a steady growth given the numbers
18 I've seen and we can have that debate any day they'd
19 like. But I'd say look at those numbers, they seem
20 pretty realistic.

21 And we have had tremendous growth in business
22 and professional services against the national average
23 in biotech, information technology, healthcare,
24 education and trade.

25 The only job declines we've had in the last year

1 came in mining and logging, 1.1 percent. My
2 manufacturing number is 1 percent from the Department of
3 Labor.

4 The biggest decline, would anyone like to guess
5 what the biggest decline was? All right, now talking
6 about manufacturing -- I wish Jack had shown this
7 because he doesn't want to talk to me.

8 The fact is that we still have those shown on
9 Gino's chart, and this must be the Italian corner.

10 MR. DI CARO: That's right, Sicilian.

11 MR. ROSSI: No, no Italian, I'm sorry.

12 (Laughter)

13 MR. ROSSI: 1.2 million, still the largest in
14 the country by far. Texas is only at about 800,000.
15 So, let's deal with some of the realities we're talking
16 about here.

17 And what is much more interesting, you know,
18 which is the one that your association needs to talk
19 about more, is that when we look at manufacturing
20 numbers today and what you've seen over the last ten
21 years is that investment is in modernization of plants
22 and the reduction in employment. That's where your
23 capital is. If you look at capital per employee, it's
24 changed dramatically over that period of time.

25 So, if we're going to deal with issues, we at

1 least need to agree on a fact set that we can all work
2 from.

3 But the last time I looked, we're leading the
4 country in job creation.

5 Now, the number I like the most, by the way,
6 when we talk about manufacturing, as a guy who's spent
7 his life lending to manufacturing companies, is that the
8 average monthly electric -- and by the way, I agree with
9 Gino that we have a higher energy price. Now, I don't
10 know if it's 50 percent because I don't know that
11 number, but I'm going to take your number because you're
12 usually pretty damn right.

13 But here's why, the average monthly electricity
14 bill for an industrial facility in California is well
15 below the national average. It's \$5,523 versus \$7,415,
16 the national average. Texas is only \$600 less than us.

17 So, what that tells you is that, yes, we have
18 done a number of things, getting back to Loren's issue
19 about all of the efforts we've made in this State to try
20 and preserve the California I grew up in for my
21 grandchildren, is that we have made this populace
22 terribly cognizant of the importance of efficiency, and
23 it has worked.

24 Now, the question will ultimately be, as we move
25 through the phases, because efficiency will only work so

1 long, you can't get down to zero. But if we constantly
2 talk about the sky is falling, we're going to deal with
3 the real issues.

4 One of the interesting things about this chart,
5 Silvio, is if you take these years, they weren't real.
6 And we all have to recognize the realities of the -- of
7 the economy. These numbers were driven by an excess of
8 cash, a lack of conditionality in lending, and that
9 drove these -- this production cycle.

10 So, as we move through this, yes, there will be
11 a pick up, but if people gear their life to this and,
12 hopefully, it won't happen again because then my
13 grandchildren will go through what we just went through.
14 But I could be sure, as you're talking about the Little
15 Hoover Commission and integrated policies, we need an
16 integrated economic and energy policy.

17 But we also had to be realistic about what that
18 drives. The real question at the end of the day for
19 Catherine, and you all, Gina, is it is a depleting
20 asset. No matter how much horizontal drawing you do, no
21 matter how much gas we find, and those prices will
22 ultimately go up as the market catches up to it, whether
23 it's \$3.00, \$4.00 or \$5.00, we have to recognize -- and
24 I don't even care about -- I shouldn't say this, the
25 Governor will be -- I'm not interested in talking about

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1 climate change. I'm interested in talking about what's
2 the real economy and what's the energy that's going to
3 drive that?

4 Because what we're talking about is the old
5 economy, which is carbon based, and we all know it's
6 going to go away.

7 In the board rooms of the people you represent,
8 they have those discussions all day long.

9 So, as you move through that process what is the
10 right balance between the economics, as we sit today at
11 the downside of the second industrial revolution and
12 move into the third industrial revolution? What are
13 those economics? How do you make that the most
14 efficient energy process that we can have in this State?
15 How can we lead the world so we can lead, again, the
16 next economic revolution?

17 That seems to me to be the issue that the Energy
18 Commission should focus on, that the PUC should focus
19 on, ISO should -- whatever that acronym should focus on,
20 and CARB should focus on. You talk about cap and trade,
21 we can all -- I mean, whoever's numbers you want to
22 look at, including the ones that you guys had done by a
23 very fine group, we don't have a problem in any of those
24 issues until 2017.

25 So, we need to hunker down and figure out how to

1 avoid many issues of upticks in 2017. What's the
2 dramatic impact is of LCFS? What's the impact of
3 putting fuels under the cap?

4 When we talk about -- when Gina talks about the
5 billions of dollars, when I looked at the first auction,
6 it's a long time before we get to a billion dollars of
7 impact on anybody.

8 So, which is payable for me because I want those
9 dollars for --

10 (Laughter)

11 MR. ROSSI: But the fact is when you look at the
12 math, it doesn't pencil out that way given where the
13 first auction is, and given the fact that ARB has said
14 that they are going to reevaluate whether or not the
15 allowances are right as you move into 2015, at 70 and
16 50.

17 So, I wouldn't worry -- I don't think you'd
18 agree to look at the allowances and assuming that you're
19 going to raise them.

20 So, as you look at that exercise, some of those
21 efforts are being made.

22 As you look at what do we do with LCFS, we have
23 a time frame here to sit down and really figure out what
24 we need to do.

25 So, I would just be happy to take the other side

1 of the table and say I think California has had a
2 spectacular year. If I was getting a bonus predicated
3 on California's performance, I'd be buying a new
4 Lamborghini.

5 But the fact is that the year is good, all of
6 the inherent numbers appear to be positive. That
7 doesn't mean we don't have problems. We've got way too
8 much regulation. The Governor said it today, we've got
9 too much duplication.

10 We do need a much more integrated energy and
11 economic policy. All of those things are resolvable as
12 long as we deal with the same facts and not talking
13 points.

14 That's all I have, I'm going home.

15 MR. WILLIAMS: Thank you very much.

16 Before I move ahead with questions, I'd like to
17 note that Chairman Weisenmiller is here. And if you
18 have any questions you'd like to begin with, or any
19 comments, please --

20 CHAIRPERSON WEISENMILLER: Actually, I wanted to
21 just start with a couple of comments. I sort of got
22 tied up with the State of the State and the sort of
23 follow up for that, so I wasn't able to be here for the
24 beginning this morning, but this is an important
25 workshop and certainly appreciate everyone's involvement

1 and contribution.

2 One of our statutory requirements is to come up
3 with a demand forecast and that demand forecast is to be
4 used by other State agencies for things like how many
5 power plants do we need, or where do we need them.

6 And, you know, having done a lot of due
7 diligence for the banks over the years, I can tell you
8 those are tough questions. You certainly get some
9 degree of humility afterwards when you realize that
10 there are things you didn't take into account.

11 But one of the things that's really important to
12 note on the uncertainty is the California economy.
13 That's certainly a major driver of our forecast.

14 And as I said, we have to get the forecast
15 right. You know, that basically there's a lot of
16 different pieces to the puzzle, you know, in terms of
17 what's going on in energy efficiency, what's going on in
18 the economy, what's going on in electrification, what's
19 going on with climate change, but our bottom line has to
20 be right because we want to make sure we're building the
21 right level of infrastructure.

22 We don't want too much and at the same time we
23 don't want the infrastructure to basically hinder your
24 expansions or your drive.

25 So, again, it's very important that you help us

1 in this process. And, certainly, this again looking at
2 sort of our uptake, you know, that will translate back
3 directly into what we're going to need in the State.

4 And we've learned, just echoing what Mike Rossi
5 said, and I can certainly appreciate Mike's being here
6 and making contribution, is that certainly when I've
7 looked at the utility numbers and have compared rates
8 and bills and, obviously, that's pretty easy on the
9 residential side, but also for the commercial and
10 industrial. It's pretty clear that if you just look at
11 rates and stack them up around the country, it's one
12 number. If you stack up bills, it's a different number.

13 Obviously, we have a lot of cogeneration in
14 California, we have a lot of renewables, we have -- you
15 know, a lot of companies are not leaving their energy
16 destiny simply to buying from the utility, so the rate
17 comparison can be a little misleading.

18 And certainly in residential, I know when I talk
19 to people in Houston they have -- obviously, they like
20 to talk about what their rates look and every time I
21 talk about the bill they end up shaking their head about
22 how much our energy efficiency has reduced people's
23 bills.

24 So, anyway, again, thank you all for being here.
25 Certainly, this is an important part of developing our

1 record going forward for this round of the IEPR.

2 MR. WILLIAMS: Thank you very much.

3 If I could, I'd like to sort of jump around. We
4 have representatives from a variety of different sectors
5 here. And I think that struck me, I think in the
6 opening remarks, is sort of another bifurcation. I
7 think between what we heard this morning, earlier, in
8 the earlier panel about, you know, the overall outlook,
9 but also even within manufacturing.

10 We talked a little bit about where you had
11 job -- you know, jobs have been declining in California
12 and they've been declining in some of the rest of the
13 nation.

14 But if you look at output, you look at value
15 added, it's a different kind of picture, that it's not
16 so bad, it's one that's been growing and it's expected
17 to kind of continue to grow.

18 So, I'd like to spend a few moments talking,
19 asking you to respond to some questions, I think,
20 about -- first of all, some on the picture that you
21 showed earlier about California as a share of the nation
22 as a whole.

23 Could you comment a little on sort of the
24 industries that you think are contributing to that? Do
25 you think is that an across-the-board sort of situation

1 or is it more related to some specific things that have
2 hit California in the great recession, like the housing
3 bust and the reductions in manufacturing related to, you
4 know, housing materials and that sort of thing.

5 So, I guess the question here is to what extent,
6 if you open it up and you look underneath, of the
7 declines that are shown there are related to sort of
8 cyclical factors that have hit us particularly hard, and
9 what percent of it would you see as being more
10 structural related, ongoing.

11 MR. DI CARO: That's a tough question. There's
12 a couple of things worth mentioning there. First of
13 all, California's been one of the most efficient places
14 to produce a product for the last 20 years in terms of
15 energy consumption. And they've been that way because
16 electricity's just been expensive here, so we've had to
17 make more with less.

18 And, well, the pie of manufacturing, in terms of
19 employment, not GSB, but the pie of manufacturing point
20 is shrinking in California. It is also shrinking across
21 the country and we understand that.

22 Our point is that we feel that across the board,
23 with some exceptions in Santa Clara County, et cetera,
24 across the board only manufacturing industries -- they
25 are choosing to scale up somewhere else because they

1 can't get any more efficient here, they can't afford.

2 In fact, one of the panelists earlier, I think
3 it was -- in fact, it looks like he's gone. He made a
4 comment. He said we'd be hard-pressed to get energy-
5 intensive industries without subsidies in California.
6 And that, to us, rings very true, unfortunately.
7 There's just no more room to pay for more efficiency in
8 California, there just isn't.

9 And we feel that that's a -- you know, there's
10 many reasons for the larger percentage decline in
11 California, but we feel that that's a major one, they
12 just can't -- they can't afford to get any more
13 efficient.

14 And, you know, with the AB 32, come -- you know,
15 there's so many pieces to that, as Gina would attest to.

16 But this cap and trade auction, you know, AB 32
17 said go decrease California's emissions to 1990 levels
18 and give CARB the authority to create the regulations
19 that get us there.

20 Well, now, we -- that's all it said, that's all
21 the bill said.

22 Now, we have a cap and trade auction that has
23 set a cap that we're going to meet, industry is going to
24 have to meet, they'll have no choice. But to meet that
25 cap there are billions and billions in terms of cost for

1 credits.

2 And, you know, you said earlier you need it,
3 everyone needs it. But we need it. They're taking
4 money from us in the Prop 39 initiative, in terms of
5 mandatory single sales factor. Our ability to compete
6 is just -- it's gone.

7 MR. WILLIAMS: Can I ask, though, on that one
8 question about Prop 39, it's something that I've
9 followed a lot over the years. And, you know,
10 California, I don't think there are many other states,
11 are there, that actually have ever allowed electric
12 single sales.

13 So, I guess the question to you is under Prop 39
14 are manufacturing companies not better off than they
15 were under the old regime where you had a three-factor
16 formula, property, payroll and sales, where now it's
17 single sales.

18 Which I think back when we had property, payroll
19 and sales as the standard many manufacturing companies
20 and companies in other industries would have been happy
21 to receive the single sales factor.

22 We've had the benefit, a couple of years -- or
23 the businesses had the benefit of the elective which,
24 you know, I think there's a lot of discussion about the
25 extent to which that helps in-state companies versus

1 out-of-state company because your company, presumably,
2 that would elect the three-factor formula would be one
3 that had relatively small operating payroll factors.

4 So, is that really -- it's a difference. You
5 know, it's a bit of a difference from where we were over
6 the last couple of years. But long-term, as a policy,
7 is the single sales factor that we have, now, under Prop
8 39, that difficult for California? Does it really set
9 us apart?

10 MR. DI CARO: Two points, to very important
11 points. One, your first one you said, well, the rest of
12 the country doesn't use an elective -- or, excuse me, a
13 multi-prong factor.

14 Well, if we want to be like the rest of the
15 country, we can start with getting rid of some other
16 policies that we have, that we don't need, that the rest
17 of the country doesn't have, like the 33-percent RPS,
18 like an AB 32 to 1990 levels, et cetera, et cetera, et
19 cetera.

20 So, if we want to be like other states, that's
21 great for us. We'll start in another place to
22 eliminate.

23 In terms of mandatory single sales factor, the
24 multi-factor that companies had prior to 2009, that was
25 existing tax policy for 30 years in California. That

1 was widely known as an appropriate way to appropriate
2 tax liability.

3 Then after 2009 they gave the companies the
4 choice, as we all know, to stick with the multi-factor
5 or single sales.

6 And they did that under the premise that it
7 would help with job creation. And then they said, okay,
8 now let's get rid of the elective sales factor and that
9 will help us create jobs somehow, which I still don't
10 understand how they can make that case, no idea.

11 And all we ever said was just give companies the
12 choice.

13 And if you don't -- if you want to make it so
14 they don't elect every single year, we're fine, they can
15 elect every seven years.

16 But there was no reason to take that away from
17 the many very large companies, like Kimberly Clarke, and
18 International Paper that employ many workers in
19 California at very high wages. There was no reason to
20 burden them with that substantial tax increase.

21 MR. WILLIAMS: Loren, did you have any comments?

22 MR. KAYE: Well, I just wanted to maybe put this
23 back in the context of IEPR or of the larger, what Mr.
24 Rossi said about putting the economics into that as
25 well.

1 And I guess my admonition would be to really try
2 to rationalize your policies that you're looking at with
3 the goals that you're trying to achieve. And I think
4 that really having explicit and specific goals is really
5 important for this. And I think that you have -- but
6 beyond that you have an obligation not to just look
7 at -- because energy -- you know, I hope we can agree
8 that energy availability, reliability and cost has an
9 effect on the economy, you can't separate it.

10 And so I think that you have an obligation to
11 look at the economic impacts of that and to see how your
12 policies, to the extent they achieve those goals, affect
13 the economy.

14 So, for example, on cap and trade, which my
15 organizations supports, we support the implementation
16 of, and we support the efforts to reach the goals in AB
17 32, you know, there are different ways of getting there.

18 And if the goal of cap and trade is to not just
19 reduce carbon emissions which is self-evident, but also
20 to provide some national leadership that can demonstrate
21 to other states, or regions or provinces that this is
22 achievable, that this can work then you wouldn't want to
23 take the most expensive route possible to get there.
24 You'd want to look at the most cost-effective way of
25 getting there. And we'd submit that that's into what's

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1 happening.

2 But I think that those are the sorts of -- you
3 want to look at what your goals are. If your goal isn't
4 to be a national leader but just to -- if your goal is,
5 instead, to raise money for high-speed rail, or other --

6 MR. ROSSI: There's no sense of humor in this
7 place.

8 MR. KAYE: Well, actually, I thought that was --
9 I think I'll note that.

10 MR. ROSSI: Okay.

11 (Laughter)

12 MR. KAYE: That's good to know.

13 But if -- not your goal, but if somebody else's
14 goal, Senator de Leon, his goal is to raise some money
15 for some -- what's the phrase? I think justice -- you
16 know, if your goal is that, then you've got, you know,
17 certain other things that you want to do. So, I just
18 would like to keep that in mind.

19 The same is true for once-through cooling for
20 the Water Board. You know, they have an environmental
21 goal there which is going to have, you know, an absolute
22 effect on electricity availability, reliability and
23 affordability or cost. And that needs to be -- you
24 know, the goal that they have set which, you know, has
25 to do with -- well, it was polluting the ocean. You

1 know, that should be rationalized against those other --
2 and I'm just afraid they're not.

3 But I think that the IEPR provides a great
4 opportunity that it's not done since you've done this
5 the last couple of times, to really explicitly connect
6 those up and then hold the various, you know,
7 stakeholders, or yourselves, or other State actors to
8 account for that. See are you achieving these other
9 goals including, as the Governor has pointed out, the
10 economic competitiveness of California.

11 Are we -- you know, we can achieve the 1990
12 goals of cap and trade, but are we doing it in a way
13 that can minimize the hit that we take, the inevitable
14 hit that we all recognize that we'll take on
15 competitiveness, and then you just sort of roll that out
16 to the various other policies that are included in this.

17 MR. ROSSI: Well, I think that's right.
18 Correct. The issue, the other thing we don't talk about
19 very much, and I'm very new to the public sector, so
20 accept the fact that I'm the least knowledgeable person
21 in the room.

22 But as a stranger in a strange place, let me
23 tell you what strikes me as odd. We don't talk about
24 cost, we talk about single-dimension measurements.
25 We're going to reduce GHG by X, we're going to have

1 renewables of 33 percent, whatever the heck it is.
2 Those are single-dimension measurements about something
3 which is multi-dimensional chess.

4 And with all due respect to the various
5 associations that have important roles to play, it
6 becomes even more singularly dimensional. Like, now
7 we've got the bulkinization of the exercise, where
8 everyone would be better off, as a whole, if we could
9 create an environment where when we talk about we're
10 going to do X, here's what it's going to cost in all of
11 its ramifications.

12 Then we can all make decisions as Californians
13 whether or not we want to do X. Right?

14 So, we do need to take the conversation away
15 from silos and do this in a horizontal fashion.
16 Otherwise, we will never get to an integrated policy
17 that maximizes, is optimal for the guy who lives in the
18 valley, one of the most economic depressed places in the
19 United States today, maybe he earns \$36,000, after taxes
20 he's maybe got \$27,000. He pays 21 percent last year
21 for his energy cost, transportation and utilities. You
22 know, we've got to figure out how he keeps employed, and
23 is able to get his kids to school, and is able to move
24 forward in his life. There's an upward trend, while
25 we're still doing these other things that are terribly

1 important, as well.

2 And we don't have that conversation. We tend to
3 talk -- my deal is, and I don't mean to pick on Gino,
4 but here's what we need for manufacturing, someone else
5 says this is what we need for oil, someone else says,
6 no, this is what we need for the environment.

7 Well, what we need is to be cognizant of the
8 fact is that everything is connected, we are the spider
9 web. And as we move through this process we need to be
10 focused first and foremost on cost because it is only
11 understanding the cost can you make the best decision.

12 MR. KAYE: So, I mean, that's great. I mean,
13 that's really encouraging. Can you shoe that into this
14 process. I mean, can it be integral to this process
15 because there's really -- there's really no other --
16 there's no other forum that lends itself -- the
17 Legislature has shown no interest in doing this, and so
18 it has to come from you.

19 Is it this forum that can do it? Can the
20 Governor create a sort of a meta-forum to do this? It's
21 really encouraging, I just don't know how it gets
22 actionable.

23 CHAIRPERSON WEISENMILLER: Well, I mean,
24 certainly this forum is part of the way in trying to
25 address it. I mean, one of the nice parts or great

1 parts about having Mike here today is these are
2 precisely the sort of questions he's asking all of us.

3 And so, certainly, going forward we're trying to
4 figure out ways to get those answers. And again, you
5 know, we certainly haven't -- we, the Energy Commission,
6 can help in that exercise. And this is a good forum in
7 the sense of it's legislative, it's not like we're
8 all -- you know, no one's lined up with their attorneys
9 actually doing the speaking.

10 So, this can do it. And exactly how far we go,
11 again, we need to certainly spend some more time with
12 Mike on exactly how this can dovetail with what he's
13 trying to do, and where he's got other forums or ways of
14 getting to what he wants to get to.

15 MR. ROSSI: I think right now there's a group of
16 us that are trying to get our hands on the cost because
17 in the conversation I had yesterday -- well, in a
18 horseshoe, whatever the hell that means, in the
19 horseshoe, as we're sitting down in this group it's
20 interesting, we all come from our own backgrounds, and
21 ask questions, and look at things the way we've been
22 raised.

23 And the conversation is what are our goals?
24 Well, you know, it's interesting, I don't think you can
25 create a strategy until you know how to measure your

1 goals. If you don't know what the measurement is, it
2 doesn't make any difference what your goals are.

3 So, we're trying -- in the energy principles
4 you're putting together your own particular set of
5 numbers. We're trying to get a set of numbers that we
6 can all look at.

7 And when Kevin talks about, well, Mike, what do
8 you think about Boston Consulting Group's on LCFS? And
9 I look at the numbers and to 2017 we're good, after 2017
10 we got problems. I've got a little time to figure out
11 what those -- how do you integrate LCFS into cap and
12 trade? How do you do a series of other things, what are
13 those cost factors?

14 So, at the very least when the person has to
15 make the decision will know what that is going to cost
16 to make that decision.

17 So, we're starting that -- I mean, the energy
18 principles, they've been working on that. We're working
19 on it in the horseshoe, so we're moving to try and do
20 that. To get the cost -- you know, it's something
21 that -- BAU, I've never seen in the business world, but
22 we use it up here all the time, business as usual,
23 trying to figure out what that line is, because we do
24 have -- you've got cap and trade, in 2015 you bring in
25 the fuels, you've got LCFS, you've got the issues with

1 39, you've got -- I can't even remember all of the
2 numbers. Brook has to tell me what they are half the
3 time.

4 But we have all of those very -- and then we
5 have the taxes, just the straight taxes. And I have to
6 tell you, I don't think the taxes are the issue. I
7 think the issue is much more the cost of trying to
8 understand what it takes to get from point A to point B
9 for a permit.

10 How do you develop -- how do I commit to develop
11 this piece of property if it's going to take me 30
12 years, up to 30 years to get it. There's a whole series
13 of those issues that the Governor is focused on. And as
14 he talked today in the State of the State, how do we
15 make -- without walking away from what's made this State
16 great on the environmental side, to what -- without
17 walking away from what made this State great on the
18 economic side?

19 Well, look at the history of this State. A
20 little Italian produce guy creates the Bank of America,
21 the most amazing financial institution in the world
22 that's been run into the ground by some other people.

23 But when you look at the movie business or you
24 look at the innovation in the Silicon Valley, I mean,
25 this State is as -- this is the stuff that dreams are

1 made of.

2 And we've had some unpleasant dreams, which are
3 not all of our making. But the best way to get to
4 resolve those issues is to get that integrated policy,
5 an integrated economic policy, integrated with the
6 environmental thrust of this State.

7 MS. SMART: I just want to add to that that I
8 think it's important, most of our discussion has been on
9 costs, but to also look at many of the benefits. And
10 from a business perspective, obviously, the ROI for any
11 sort of policy and regulation can be longer than what
12 might foresee, but we have known the value of 32 since
13 2006, and I think, at least from a Silicon Valley
14 perspective we've been able to see the potential
15 opportunities there.

16 But from a benefits perspective, it's also
17 important to look at why are jobs being attracted to
18 this State? Why are employers able to convince an
19 employee that it makes more sense to locate in Northern
20 California than it does in freezing, cold Michigan, for
21 example, and part of that is our environment.

22 And I think that if that is a goal of this
23 State, then it should be reflected in any sort of cost
24 benefit analysis.

25 MS. GREY: I would just add that I think our

1 industry should start investing in software.

2 (Laughter)

3 MS. GREY: That's where the money's being made.

4 Great comments, Mike, and great comments, Loren.

5 I think another factor to fit into this is that
6 especially in our industry, it's not just California,
7 we're global enterprises and it has to be taken into
8 consideration. It's not just U.S., either, it's global.
9 And the companies are making decisions based on their
10 global assets.

11 And as such, when they look at the under-
12 performing assets in California, they will make
13 decisions. And it's not a threat, it's just business,
14 as you know, Mike.

15 MR. ROSSI: I don't have a problem with that.

16 MS. GREY: And an unnamed refiner, just to use
17 an example, in Hawaii -- you visit Hawaii quite
18 frequently -- just made a decision not too long ago to
19 close that refinery and make it a terminal.

20 And, you know, it was interesting because I
21 don't know all the specific business decisions that were
22 made, I'm not privy to that. But in the press, one of
23 the things that was kind of interesting was they stated
24 that the company had indicated that it was making money.
25 It wasn't that the asset was not making money. It was

1 making money. But relative to the rest of their assets,
2 it was under-performing.

3 So, and I will also add that Hawaii has some
4 draft greenhouse gas legislation that, you know, makes
5 California's look pretty nice, actually.

6 But these are some of the issues that have to be
7 added into this.

8 You know, I go back to your comment about the
9 integration and that's kind of the root of what I was
10 saying earlier, that year after year, after year we do
11 these IEPR documents and, literally, our industry feels
12 very strongly that based on the charge that you folks
13 have, that's written out in legislation, it's a very
14 important role to play.

15 But as I mentioned, it seems as though it gets
16 cut short, where it just talks about, you know, the
17 facts and here's sort of the situation. Here's where we
18 think the situation may lead, here's some challenges.
19 But then that's where it stops. And we would love to
20 have the Commission step forward to kind of be the
21 integrated role player here that Loren was talking
22 about, or at least someone to step up to the plate and
23 deal with, okay, so across the board what needs to be
24 done then.

25 When we see this picture, we see what may occur,

1 we see the costs, are we going to do anything about it?
2 Or, does government have no role to play and industry
3 just makes those decisions on its own? I don't have an
4 answer to that one.

5 But as I indicated, you know, our industry is
6 definitely looking at the picture and making those
7 decisions as it goes so --

8 MR. ROSSI: I can only speak for myself. I'm
9 not sure what -- we talk about the difference between
10 what industry and government is in this regard. If we
11 can figure out what is the right integrated policy, you
12 don't have a cost factor and that cost factor will be
13 clear, and then businesses will have to make their own
14 individual decisions. I can't ever remember ever having
15 any government entity make a decision for me. So many
16 businesses do.

17 I think one of the interesting things, you know,
18 when you talk about the sky is falling in California and
19 how many businesses are exiting, there are no numbers
20 that indicate that to be the case in any way, shape or
21 form that you can look to.

22 I mean, if I would have looked at some guy in
23 Orange County that says 250 companies left last year,
24 and he has no idea and, more importantly, what the
25 employment base was. If in fact there were those 254

1 companies and where the only study that exists, that's
2 of any value, indicates that it's 11,300 jobs a year,
3 over a 30-year period, against an \$18 million base, even
4 if it were right, 250 companies, that's .007 percent of
5 our total companies in this State.

6 We tend to talk about stuff that doesn't let us
7 get down to what counts. This is what counts, by the
8 way, because if you know these numbers are inflated and
9 they're not coming back soon, in order to make this work
10 for your members, we have to figure out how we get an
11 economy that every time oil hits \$140 a barrel, and I
12 don't mean California, I mean, globally --

13 MS. GREY: Right.

14 MR. ROSSI: -- it just does. It does because
15 you no longer have a multiplier in a carbon-based
16 economy in the world. So, you reach a place where it
17 just dies.

18 Would you guys disagree with that over there?
19 Have you got any numbers that indicate that that's
20 wrong?

21 Okay, so it just dies. And what you find out is
22 that if we can't figure out how to move forward so we
23 change that, we won't be able to fix this.

24 MS. GREY: And I would just add, though, that I
25 think a lot of the dialogue gets focused on the cost to

1 the industry and I will just say let's presume the old
2 story has died, let's presume there's a thriving bi-
3 fuel, electricity, natural gas, integrated type of --

4 MR. ROSSI: And the electric car.

5 MS. GREY: Right. It's the cost to consumer
6 that's really important. So, you know, definitely the
7 cost to industry from our perspective is important, but
8 that translates somehow to the consumer.

9 MR. ROSSI: But what you don't want to do is get
10 into the conversation somewhat myopic that we're only
11 talking about manufacturing.

12 MS. GREY: Right, but I --

13 MR. ROSSI: And I'm not being critical of Gina.
14 What I'm saying is we tend to do that up here. We tend
15 to get into our silos and to have that conversation
16 running from one silo to the other every day, all day
17 long.

18 MR. DI CARO: Can I say something?

19 MR. ROSSI: No.

20 MR. DI CARO: No.

21 (Laughter)

22 MR. ROSSI: Go right ahead.

23 MR. DI CARO: You know, this is a key chart and
24 someone said earlier, one of the comments that housing
25 follows jobs and that's obviously true. We would say

1 that housing follows good, high-paying jobs even more
2 like manufacturing and other sectors, healthcare, high
3 tech, et cetera.

4 So, I just wanted to make sure that we're part
5 of that equation. We're not talking about just --

6 MR. ROSSI: See, my --

7 MR. DI CARO: That's why we talk about the story
8 about the kid and the guy with the 72 grand without a
9 high school diploma. He probably sent a kid to college
10 and he's a garbage man, right.

11 And one more point, we talk about companies
12 exiting and I agree, Mike, that there's too many people
13 talk about these grand situations where companies are
14 picking up and trucking off to Texas. That's really not
15 happening that much, it's much quieter than that.

16 These companies are just dropping California off
17 their investment list. Smaller companies aren't growing
18 in California.

19 When's the last time you saw a company that
20 started with four employees, you know, as a manufacturer
21 and grew to 5,000? Never, probably, because it doesn't
22 happen in California anymore.

23 MR. ROSSI: That's just not true.

24 MS. SMART: I think SunPower started with four
25 people in a garage and they --

1 MR. DI CARO: I mean, so there are some.

2 MR. ROSSI: But with all due respect, I didn't
3 hear that housing follows jobs. I will tell you that
4 that's not true here and I'm happy to have that
5 argument. It was housing that created the jobs, it was
6 the excess of money from some prime lending that created
7 so much velocity and no conditionality that it had to go
8 someplace.

9 It seems to me that housing actually created all
10 of those jobs that didn't exist before.

11 MR. WILLIAMS: You know, if I recall, that
12 comment, I believe, was in a non-double like economy
13 looking forward.

14 I think everybody would acknowledge that during
15 the bubble in the mid-2000 period there was clearly,
16 temporarily, a lot of job creation related to
17 speculation in the housing market.

18 MR. ROSSI: That's true. This doesn't happen --
19 and when you look at our economic history and you look
20 at the percentage ownership of homes historically in
21 this country, and then it jumps 30 percent because of
22 this kind of influence -- I know, you're looking for the
23 guy who tried -- who wanted to turn around -- but trust
24 me, it's one of the largest mortgage lender in the
25 country. I understand the problem. I wish I didn't,

1 but I do.

2 And so in order to get those good jobs we can't
3 look back to this. We got to figure out how we move
4 from an economy that starts to slow down when a barrel
5 of oil gets to \$1.47 -- \$147. I wish it was \$1.47, then
6 we'd have a whole lot of gas problems.

7 MR. WILLIAMS: Can I jump in here with a
8 question just real quick?

9 I mean, I think to one degree or another, some
10 very strongly advocating and others maybe acknowledging,
11 but we do have a problem with regulations in California.

12 And so I guess my question, and I'm going to
13 throw this open, is realistically, I think looking
14 ahead, where do you think the greatest potential is for
15 getting some sort of regulatory reform or relief that
16 would have a meaningful impact on jobs in the
17 manufacturing industry or in other industries?

18 Would it be in, you know, CEQA type of things?
19 Would it be just basically permitting process?

20 Or is it we're talking about some of these, you
21 know, landmark AB 32, the cap and trade, and that sort
22 of thing?

23 Where do you think the biggest problem was and
24 for those of you who want to try, where do you think the
25 greatest potential is to get meaningful reforms that

1 would have an impact on job creation that wouldn't, you
2 know, have the negative impacts on environment, land
3 use, that sort of thing?

4 Loren?

5 MR. KAYE: Well, basically, there's two types of
6 reg reform that I think need to be considered. One is
7 reg reform that reduces costs. And the other kind is
8 reg reform that increases certainty for investment. And
9 they're not always the same thing.

10 I mean, I think clearly the Governor hit it
11 today, the most important reg reform we can do to
12 increase certainty for investment is CEQA reform because
13 that is a bottomless pit of litigation that is wide open
14 and, you know, I need to make that picture.

15 The other kind of reg reform has to do with --
16 has to do with costs, and that's where you get into
17 things like the cap and trade auction is a big example,
18 but there are other examples, too, like various
19 occupational safety and health regulations that you can
20 just go down the list.

21 And I think the great opportunity --

22 MR. ROSSI: What cost, just so I understand?

23 MR. KAYE: It's the cost of the auction, itself,
24 beyond what is necessary to cap the emissions. So, it's
25 whatever the -- I'd say the cost is whatever the auction

1 revenues are.

2 MR. ROSSI: \$55 million.

3 MR. KAYE: Well, it's whatever the auction
4 revenue is. But anyway --

5 MR. ROSSI: Well, I want to know what you're
6 talking about, it's the \$55 million --

7 MR. KAYE: Yes, it's the --

8 MR. ROSSI: -- that's predicated on future
9 vintage sales by a price that is going to be somewhat
10 above the floor. And there's no cap and trade operation
11 that's existing that is trading above the floor,
12 historically.

13 MR. WILLIAMS: Excuse me for one second. Could
14 I ask, when you have these cross-conversations, if you
15 can pull the mics a little closer to you so we can
16 record everything.

17 MR. KAYE: Anyway, my point on the real
18 opportunity that we have on leg reform that addresses
19 costs is something that the Governor's Office and the
20 Department of Finance is working on right now, which is
21 a new way of doing economic analysis on regulations.
22 They're looking at some of their own regulations and
23 procedures that may apply to all State agencies to
24 increase the usefulness, transparency, and relevance of
25 cost-effectiveness analysis of the regulations, of the

1 major regulations.

2 And that could be an extraordinarily helpful
3 tool, not just to people who get regulated, but to
4 government, itself, and especially the senior management
5 in government in trying to rationalize the obligation
6 that they're given by the Legislature to implement
7 regulation and whatever obligation that the Governor and
8 his leadership feel to kind of minimize or use those --
9 implement those regulations most cost-effectively.

10 So, I would just point to that as being a great
11 opportunity.

12 MR. DI CARO: May I say a little bit?

13 MR. WILLIAMS: Sure.

14 MR. DI CARO: You know, there's no one silver
15 bullet for this, we all understand that.

16 The larger guys will benefit from certain
17 policies and the smaller guys will benefit from others.
18 Certainly, the cap and trade allowances and getting the
19 free allowances up to the cap is pretty significant for
20 most of our medium and large manufacturing base, and we
21 feel that's pretty simple to do, actually.

22 But and that's not rolling back any
23 environmental regulations, we still get to 1990 levels.

24 But that being said, a more broad policy focus
25 for us, we feel that would have the biggest bang for its

1 buck, is take some of that cap and trade -- continue
2 with the auction as is, hopefully with some fixes and,
3 obviously, we have the Prop 39 money coming in, and
4 somehow find a way to get that back to companies in
5 terms of a sales tax exemption. They either do it under
6 the premise of efficiency credits, I don't know, but
7 let's find a way to get that back to the manufacturers
8 so they don't have to pay sales tax on the purchase of
9 their capital equipment.

10 That will go a long way in terms of getting
11 limited investment for some of the smaller guys and,
12 absolutely, the larger guys as well.

13 MS. GREY: Yeah, I just wanted to add that I
14 think the petroleum industry typically gets painted in
15 this box of not wanting to do anything, particularly
16 with respect to anything, you know, environmentally
17 oriented.

18 And after working quite a few years in this
19 industry I would say my perspective is that's false.
20 Obviously, we want to make money, we want to be able to
21 probably minimize our costs in order to produce the
22 products we produce, but that's any business.

23 So, you know, I think I agree with Loren about
24 the two aspects of things that probably need some
25 revision.

1 But one thing that needs to be considered is
2 that, you know, industry in this State, whatever the
3 industry is, has to remain viable in order to produce
4 the tax revenues that then go towards various government
5 programs, et cetera.

6 So, in order to make sure the industry remains
7 in this State and, you know, there are possibilities.
8 For example, I'm not even sure if folks are aware of
9 this, that there are interest in terms of refineries who
10 are out there right now, who decide that they want to
11 convert those refineries to turn mills, just like what's
12 being done in Hawaii, and import transportation fuel and
13 export transportation fuel, and make their decisions as
14 to where those would go.

15 And I think earlier someone mentioned the
16 island, that California produces, you know, the cleanest
17 gasoline in the world, et cetera.

18 So, those tax revenues have to be considered.
19 We do want to -- if our companies decide they want to
20 continue producing transportation fuel in this State,
21 whether it's petroleum based or renewable based, et
22 cetera, that's fine.

23 I think we're -- our industry gets a little bit
24 perturbed if we're -- our industry, because we're
25 perceived to have deep pockets, is being looked to, to

1 pay for all these programs. Whether or not it's our
2 core business or not, whether it's totally unrelated or
3 not doesn't seem to matter and, as I say, we get painted
4 in the box of being recalcitrant, and we're the oil
5 industry, and we just have lots of money and we can
6 obviously donate it to all of these different societal
7 goals.

8 So, I would say if the challenge is thrown
9 before our industry to evolve, to produce transportation
10 fuels that are more environmentally, et cetera,
11 preferable, that's one thing.

12 If we're being expected to bankroll everyone
13 else's businesses, that's another.

14 MS. SMART: In response to the question on
15 regulatory, so the number priority of the Silicon Valley
16 Leadership Group, as voted on by our 375 members, is
17 CEQA reform this year.

18 Our number two is immigration reform, and
19 corporate tax reform. So, it's not like we're just
20 focusing on one little thing. This actually what we see
21 as the biggest issue we have to face is located jobs
22 here.

23 The example from our membership is Netflix is
24 trying to add 1,000 jobs to Los Gatos, which is in
25 Silicon Valley, just outside San Jose. And the original

1 plans included a five-story building, and on an existing
2 business site, and the residents issued a CEQA lawsuit
3 and said, you know, we don't want five stories, we only
4 want four stories, and we don't want any housing
5 element, we only want business because they were worried
6 about degrading their schools.

7 And so they ultimately won that CEQA lawsuit,
8 which had nothing to do with the environment, and now
9 they have to go back and look at new plans and figure
10 out how to build a four-story building.

11 Does it change the environmental impact
12 whatsoever?

13 (Laughter)

14 MS. SMART: So, you know, the potential to add
15 1,000 new jobs in Silicon Valley.

16 So, that said, the other part of our world is
17 the clean environment and we want to see some sort of
18 meaningful CEQA reform that balances both the
19 environment, and as well as the economics.

20 The other thing I'm putting on my concern pad as
21 well, the other thing would be rate design. I think
22 when looking at the State's energy policies there is an
23 impact of electricity rates. We applaud the efforts of
24 the PUC to look towards residential rate restructuring,
25 particularly a transition to dynamic rates which should

1 over time help customers be more energy efficient, and
2 use their appliances more efficiently. And so those
3 two, I think, would be something that both could occur
4 this year. We have the structure in place and we hope
5 by the end of this year we see those on floor.

6 MR. FERRARI: You know, I'd like to jump in on
7 this real quickly. I'll try not to be repetitive, so I
8 want to kind of hit on some very specific regulations
9 and those are the regulations that come through the
10 Buildings Standards Commission, whether they're the
11 Building Code, the Green Building Code or our Energy
12 Code.

13 As needing to sell and market a product, we
14 continually need to make sure that whatever regulations
15 are going to be passed along to the homeowner are cost
16 effective.

17 What that means is that for each percentage
18 increase in energy efficiency that's being received, the
19 homeowner needs to essentially understand that they're
20 going to get their money back from that investment over
21 the life of the dwelling and for residential that's 30
22 years. That's important. That was actually -- the
23 definition of cost effective was actually put in place
24 in Governor Brown's first term, back in the late
25 seventies and early eighties, so that's something he's

1 very familiar with.

2 Now, where I'm going with this is we have a
3 statewide policy goal of getting to zero net energy by
4 2020. That's going to -- what we're seeing now is
5 becoming clear, especially in this last updated Energy
6 Code, the low-hanging fruit is essentially gone, so
7 things like insulation, and windows, and roofing
8 materials, those things have really kind of hit their
9 peak of as efficient as they're going to get.

10 So, now we're looking to other construction
11 methods that can be incorporated to get that next
12 increment of energy efficiency.

13 As we do that, each one percent of energy
14 efficiency is becoming much more costly than it used to
15 be. And we've worked with the Energy Commission now for
16 multiple updates, and I've supported every update, you
17 know, as far as I believe since the mid-nineties.

18 MR. ROSSI: What is it, when you say that an
19 incremental one percent is much more costly, what does
20 that mean? Is it more costly to build to get that one
21 percent or --

22 MR. FERRARI: So, yeah, for instance in 2008 the
23 Energy Code did a 15 percent increase and it was costing
24 about \$1,500 in the field to apply those increased
25 energy efficiency measures.

1 The newest update, that's going about 25
2 percent, is beginning to cost anywhere from two to three
3 times more than each one of those one percent increases
4 previously.

5 So again, and what that mean is that the Energy
6 Code has done such a good job over the last several
7 updates of going after the things that are easily done
8 and cost effective, and now we're getting to a point of
9 what are those next things going to be? And typically,
10 they're not completely in the norm construction
11 techniques that are potentially more cost effective --
12 or more costly to build in the real world.

13 MR. ROSSI: Require additional training.

14 MR. FERRARI: Say it again?

15 MR. ROSSI: Does it require additional training
16 on behalf of the building trades?

17 MR. FERRARI: You know what, it does. For
18 things like, well, you know, highly-efficiency framing
19 techniques. It's going from 16-inch studs to 24-inch.
20 Things like that do require additional training. To
21 take a normal roof structure and then in order to get
22 insulation all the way to the edge so you don't have a
23 void, they do something called a high-heel truss roof
24 system. That is additional cost and additional labor
25 that isn't typically in normal construction process.

1 So, one thing the Energy Commission has done a
2 tremendously good job of doing over the last update is
3 working with us to incorporate, you know, measures that
4 are cost effective.

5 But as we try to get to zero net energy by 2020,
6 it's going to be even more important to work with each
7 other to design what those techniques are going to be.

8 CHAIRPERSON WEISENMILLER: And I was going to
9 say, certainly going forward, as you know, just using
10 cost effectiveness we could have gone to more stringent
11 standards than we did. And, certainly, some of my
12 friends in the environmental community were unhappy with
13 where we ended up, actually, the utility community, too.

14 But we sort of worked out an arrangement to come
15 up with pretty aggressive goals, saying that, you know,
16 moving forward to zero net energy is certainly going to
17 be a push for the -- you know, we have two more cycles.
18 But, I mean, that's certainly part of the Governor's
19 plan.

20 And so at the same time, as we go through, I'm
21 sure one of the things Mike will be pushing us on is,
22 okay, what's the cost and the tradeoff.

23 MS. SMART: Well, also looking --

24 CHAIRPERSON WEISENMILLER: But certainly we will
25 -- you know, whatever we do, it is going to be lifecycle

1 cost effective.

2 MS. SMART: I was looking at what the cost is to
3 use those buildings. So, from an end-user perspective,
4 if you have a more efficient building, then we pay less
5 electricity costs which, you know, over time should help
6 some support of that.

7 CHAIRPERSON WEISENMILLER: I know, we certainly
8 appreciated that.

9 MS. GREY: One thing I just wanted to add, too,
10 is if you sit through some of the alternative fuel
11 workshops, say at ARB, et cetera, three things that keep
12 popping up. One is investment dollars, where are they
13 going to come from, et cetera.

14 Secondly, is regulatory certainty because there
15 seems to be a lot of uncertainty and especially ARB
16 changes the regulation every year so it's hard to, you
17 know, convince investors to invest when there's so much
18 uncertainty with regulatory changes that have a dramatic
19 impact on how this regulation's going to be implemented,
20 whether it's LCFS, or AB 32, or the cap and trade,
21 whatever it is.

22 And the third thing is CEQA, and it comes up
23 over, and over, and over, people that are running into
24 tremendous problems and lag time that's unbelievable to
25 put in the facilities. Even if someone, as they said

1 earlier, wants to invest and they want to do something
2 for California, move into complying with these
3 regulations.

4 So, I'm sure Loren probably knows better than I
5 do, the changes of CEQA reform and whether that CEQA
6 reform would be, you know, effective enough to overcome
7 a lot of these difficulties

8 But I just wanted to mention it just seems to be
9 the --

10 MS. SMART: Challenge accepted.

11 MS. GREY: So, definitely back to your question,
12 anyway.

13 MR. ROSSI: So, I'll answer your question this
14 way, dealing every day with a multitude of businesses
15 and their issues -- just from this table you can see the
16 complexity of each individual's issues are messy at
17 best. I guess democracy is messy and it's still the
18 best option.

19 But I think you need to group these things into
20 two broad categories. The ones -- and also to
21 understand what it is you're really trying to do here.

22 And we always seem to talk about this stuff and
23 the investment coming in. When you look at how a lot of
24 the jobs grow in the State, it's not from investments
25 coming in, it's from companies, the 3,500,000 small

1 businesses that grow their businesses in this State.

2 So, as you look at those options, the first
3 thing that occurs to me as a business guy is I'm going
4 to take -- not unlike solely on the business, in
5 building, in the construction industry, we ought to get
6 all the low-hanging fruit we can and permit it. So, we
7 need to fix the permitting in this State because it is
8 way more complex than it needs to be. The State,
9 municipal, county, I mean we need to get -- like my
10 universal remote at home where I watch the 49er's, I
11 need a universal remote for permitting.

12 So, we need to -- if we can get that fixed right
13 quickly, then we're going to get CEQA fixed, whatever we
14 do with CEQA.

15 So, we need to get the permitting aspect as
16 efficient as possible so those 3,500,000 companies can
17 grow in California. So that if the guy wants to open
18 another restaurant or a fast food place, it isn't going
19 to take him 18 months to two years to get it done.

20 The issue of -- the bigger issue, when you talk
21 about CEQA, one of the interesting things if people read
22 the new infield aspects of CEQA, it is a pretty broad
23 definitional characteristics in that change, which will
24 be very helpful in how people do a series of things.

25 The bigger issue with CEQA and, again, as the

1 amateur in the room, there are less than a couple of
2 hundred suits a year of any substance on CEQA, as you
3 move through the period. It's not the issue of being
4 sued, it is the issue of having some idea that if I
5 start today, whether it's yes or no I'll know in
6 whatever time frame I'll know it.

7 That is really what needs -- the ability to say
8 to people that -- one of the places I live is in Pebble
9 Beach, next to Carmel. In Carmel they have this thing
10 called Flander's Mansion.

11 The City has voted three times to sell this damn
12 thing. Three times it's gone to court under CEQA, so
13 they can't sell this decrepit building. So, they voted
14 again to sell it and we'll see what happens.

15 But it is that kind of exercise in the CEQA --
16 of all of the things, environmental justice, which is
17 part of CEQA, which is the story, it's not the events in
18 environmental justice, but how it impacts the children
19 in the area and all that stuff.

20 And that aspect, all I need to know as a
21 business guy is it's going to take this amount of time
22 to get my answer and I need a -- I'm either going to
23 take that amount of time or I'm not.

24 That's what's needed. Not the issue of whether
25 real issues in the community are addressed or not

1 addressed, they need to be addressed.

2 But we need to -- I believe we need to figure
3 out a way, and I hope Senator Rubio's efforts will
4 focus -- I know they'll focus on it. I hope they
5 resolve something so you can get some finality.

6 If you read -- I don't know how many people here
7 have ever read the original CEQA documents? It's one of
8 the things about government, there's more than enough
9 stuff to read.

10 Well, if you read the original CEQA
11 presentations, they're two pages. Two pages, maybe
12 five. Today there are thousands of pages, it's an
13 industry. It's created an industry at the expense of
14 others.

15 And so my view of that is that that clearly
16 needs to be addressed, as the Governor has said.

17 But there's this whole other aspect of
18 duplicitous regulations, the issue of trying to deal
19 with a three-tiered permitting system in this State. If
20 we can get that fixed or certainly streamlined, that
21 will go a long way for helping those 3.5 million small
22 businesses, whether they're manufacturing or retail, to
23 grow because we want those to grow.

24 We are never going to drive this economy by
25 bringing businesses in from outside.

1 MR. DI CARO: Can I make one point on that real
2 quick?

3 The policy of CEQA reform, et cetera, is very
4 important to us. But I wanted to make a point on
5 getting companies to grow here, we agree and echo that
6 tremendously.

7 One statistic we have on that, and that we think
8 it's very problematic, California for the last 15 to 20
9 years has received about 50 percent -- 50 percent or a
10 little more of the country's venture capital.

11 But in the last five years, if you look at the
12 investment in California in new and expanded
13 manufacturing facilities, when the country's average is
14 40.2 per one million people, California's average is 4.3
15 per one million people. We were, basically, it was
16 either dead last or second to last among all the states.

17 So, we have all this venture capital which we
18 always get because we're California and we're good, but
19 that money isn't necessarily translating into scale-ups
20 of good, high-paying manufacturing jobs and other types
21 of jobs.

22 It's just not scaling up here for one reason or
23 another, and one of which is probably CEQA and a host of
24 other issues, but I just wanted to kind of underscore
25 that point.

1 MR. WILLIAMS: Well, on that note I think we're
2 about out of time here.

3 Commissioner Weisenmiller, if you'd like to --

4 CHAIRPERSON WEISENMILLER: Yeah, I'd certainly
5 like to thank people for their participation today.
6 And, you know, I'd certainly like to thank Mike Rossi
7 for being here and sort of being part of the dialogue.

8 And again, certainly the rest of the day's,
9 hopefully, going to be as interesting as this panel.

10 MR. WILLIAMS: Well, thanks. We're going to
11 break now for lunch and the Demographic Panel starts at
12 1:30.

13 And thank you very much to this panel for a very
14 interesting discussion.

15 (Off the record at 12:23 p.m.)

16 (Resume at 1:42 p.m.)

17 MR. KAVALEC: There was a question from the
18 audience for one of the morning panels that we thought
19 it would be best for an Energy Commission staff person
20 to answer.

21 And the question was along the lines of in your
22 rate forecasts are you going to incorporate all these
23 environmental policies, like AB 32 and so on, that we
24 talked about?

25 And the answer is we don't really do rate

1 forecasts, we do rate scenarios for our Energy Demand
2 Forecast.

3 But the answer is, yes, we incorporate all
4 available information and that includes policies that
5 have already been implemented or will be implemented, so
6 we will.

7 And the rate scenarios that we use we will be
8 presenting at a workshop on February 19th, along with
9 all the other input assumptions like going to -- going
10 to our forecast so we can discuss rates more at that
11 time.

12 So the other major cog from a public policy
13 perspective is demographics, meaning population growth,
14 migration patterns, household size, other factors and
15 this is, obviously very important from an energy point
16 of view.

17 And for our panel today, if we could, we'd like
18 to get into a little bit about the relationship between
19 the economy and population growth, feedback between the
20 two.

21 So, I'll turn this over to our moderator for
22 this session. Jon Haveman, who is the Chief Economist
23 at the Bay Area Council Economic Institute, which is a
24 nonprofit research institute providing public policy and
25 economy research designed for policy debates and

1 throughout California.

2 Jon has a doctorate in economics from the
3 University of Michigan. He has taught at Purdue
4 University, worked as Deputy Assistant Secretary of
5 President Clinton's Council of Economic Advisors, served
6 at the Director of the Economy Program at the Public
7 Policy Institute of California, and is a founding
8 partner at Beacon Economics.

9 And Jon was widely known as an expert on the
10 regional economic development in economic issues and
11 goods movement.

12 So if you would. Jon.

13 MR. KAVALEC: Pardon? Oh, I'm Chris Kavalec
14 with the Commission.

15 MR. HAVEMAN: Thank you, Chris. I want to start
16 off by thanking Kate Sullivan and the Commission for
17 inviting me to participate here today. And I you give
18 me just a second, I'm going to get some of my cheat
19 sheets back from Chris.

20 I'm thrilled to be here to moderate this panel
21 because I think it's a really interesting time to be
22 talking about demographics in California.

23 Demographics tend to change very slowly, my
24 impression is that the recession that we just went
25 through may have changed some fundamental demographic

1 trends in the State of California. That, coupled with
2 the baby boomers starting to retire en masse, I think
3 the demographics probably for the next 10 to 20 years
4 are very going interesting.

5 You saw during the recession that innovation
6 flows to California, at least I think we did, slowed
7 dramatically as opportunity here declined for money from
8 abroad.

9 We saw changes in domestic migration that I
10 think are important for the State.

11 You know, the issue here from this panel of four
12 very esteemed experts in the Californian demography,
13 about whether or not those trend are even true, how much
14 they will change over the course of the next 10 years.

15 So, I don't need to speak very much more about
16 demography in California. Instead, I'll introduce each
17 one of our panelists in turn, provide a little bit of
18 their bio and then give them about three to five minutes
19 to offer some opening comments.

20 Before we get started, though, I want to remind
21 the audience to please feel free to submit questions on
22 index cards.

23 And those who are following on WebEx, I believe
24 you can still submit questions and they will be brought
25 to me as well.

1 Okay, so why don't we go ahead and get started.
2 We'll start off with Hans Johnson from the Public Policy
3 Institute of California. Hans is currently the Director
4 of Research at the Institute. His areas of expertise
5 are immigration and migration, population issues and
6 demographics, in particular, census, population growth
7 projections, regional population and fertility. Also,
8 housing is also very paramount, and education
9 projections, and workforce skills of late.

10 He was formerly a senior demographer at the
11 California Research Bureau and demographer at the
12 California Department of Finance.

13 He has a PhD in demography and a master's in
14 biostatistics from the University of California.

15 Recent publications include "California 2025:
16 Planning for a Better Future, Defending all Education;
17 What are the Effects on College Enrollment?"

18 So, Hans, I'll give you three to five minutes to
19 open up.

20 MR. JOHNSON: Thanks a lot, Jon.

21 So, what I'd like to do is just briefly set the
22 context for talking about California's population and
23 population change, and talk about really kind of two
24 California's, two demographic histories of this State.

25 And the long history of this State, from the

1 Gold Rush to about 2000, was one characterized by
2 tremendous population growth.

3 In 1900, the State was home to 1.5 million
4 people. Today, the State is home to about 38 million
5 people. And that growth that California experienced in
6 the 20th Century was unprecedented anywhere in the
7 developed world.

8 If you look at our growth rates and compared
9 them to other regions of the world that were of a
10 similar economic status as California, we were by far
11 and away the leader. And in fact, California's growth
12 rates rivaled those of many less-developed countries.
13 And in fact, in many years exceeded those in Mexico, for
14 example, a country that had been long-characterized by
15 very rapid population growth.

16 So, we were in this with tremendous population
17 growth, but first world infrastructure and social
18 service demands and needs.

19 The sources of that growth varied over that
20 time. So, when I sources, demographers, there's only
21 three ways a population can change from one point in
22 time to the next, birth, death and migration. The
23 difference between birth and death we call natural
24 increase.

25 And so from the late 1800s to the early 1900s

1 there was international and domestic migration that
2 fueled much of the growth.

3 In the mid-1900s it was domestic migration, as
4 well as natural increase. That is really the baby boom,
5 a very large increase in family sizes that was occurring
6 during that period.

7 And then in the late 1900s California's growth
8 was fueled primarily through an international migration,
9 as well as natural increase.

10 So, that was the old California, the first tale.

11 The second California is the California we're in
12 now and I think it really is right to make that kind of
13 demarcation that things have changed so much now that we
14 look like a very different state demographically than we
15 did historically. And I'm just talking about population
16 growth, others and I can talk about the composition of
17 the State's population as well.

18 But since 2000 California has grown no faster
19 than and, in fact, in some years slower than the rest of
20 the nation.

21 The 2010 Census which is, of course, used for
22 reapportionment, was the first census ever in California
23 in which we did not gain any new members of the House of
24 Representatives because our population did not grow
25 faster than the rest of the country.

1 In 1920 we didn't gain any new members, either,
2 but that was because the Congress was unable to agree on
3 the apportionment in that year and partly that was
4 because rural Legislators were able to fight off
5 reapportionment as their numbers were declining, and
6 urban Legislators lost that battle for reapportionment.

7 So, in any event, except for that weird kind of
8 census or result of the census in 1920, this last decade
9 was the first time California's never gained any more
10 political seats in Washington.

11 A key question that we face now, as
12 demographers, and for anyone who's interested in
13 California's future population which, of course,
14 includes the Energy Commission and many other people is,
15 well, what's the demographic future for California?

16 Are we going to return to the California of the
17 past with rapid growth rates, a booming economy, a
18 tremendous population increase or are we going to become
19 the next what I would say demographic New York?

20 So, New York is a state that for over 40 years
21 has experienced very little population growth. It
22 receives international migrants from abroad in fairly
23 substantial numbers, but sends out equally large numbers
24 of people to other states.

25 California's population growth has slowed

1 because we're sending out a lot more people to other
2 states than we have in the past, but we still receive
3 substantial flows of international migrants.

4 And we're not the next demographic New York yet.
5 Our net migration flow is, when you add the
6 international and domestic components are still
7 positive, whereas in New York they're often negative.

8 So, we're not there yet and I think the real
9 question is whether we're going to get there.

10 A few years ago I was asked to do some
11 population projections to the year 2100, which any other
12 demographer who had an ounce of intelligence would
13 immediately say no way, I won't do that, but I agreed to
14 do it.

15 And I wasn't comfortable just giving a single
16 projection out to 2100 and we're going out almost a
17 hundred years, right.

18 And imagine, if you're in California in 1900 and
19 there were 1.5 million people and someone asked you to
20 forecast how many people there would be in California in
21 the year 2000, it seems like kind of a crazy endeavor.

22 So, I gave a range of projections for what
23 California's population might be in 2100. And that
24 range is extremely wide.

25 The minimum that I forecast, my minimum scenario

1 was 48 million people. I realize today we're at about
2 38 million. And my maximum scenario was 148 million
3 people.

4 You can imagine that the users of these
5 forecasts weren't very happy with that range because it
6 really didn't help them a lot to try to figure out what
7 service needs might be or what energy consumption might
8 be.

9 And my response and my defense was, and still
10 is, is that it actually represents, I think, not an
11 inaccurate sense of the uncertainty of what our future
12 population might be. And that uncertainty is very much
13 a product of where we are right now, as I said, with
14 this seeming sea change in terms of California's
15 attractiveness to people from other states, and sending
16 out a lot more people to other states.

17 So, finally, just the discussion here, again,
18 with this connection between population and economy and
19 let me just say that, you know, the primary means by
20 which most of us think that the economy and population
21 interact, the most immediate level is through economic
22 attractiveness of a place.

23 And in this case, when we look at domestic
24 migration to and from California, it very closely tracks
25 employment growth or the lack of employment growth in

1 our State, unemployment rates in our State compared to
2 unemployment rates elsewhere. And where we are much
3 higher in unemployment rates, lower in employment growth
4 than the rest of the nation we see larger flows out of
5 the State. And, certainly, that's been characteristic
6 of this last recession.

7 And then, finally, there's another connection
8 here that I think is maybe less immediate, but maybe
9 even more important and that is, to a large extent,
10 we've done other work at PPIC looking at forecasts of
11 our future population and the educational attainment of
12 our future population, and one of the biggest challenges
13 we face as a State right now is we have a very large and
14 very well-educated cohort, the baby boomers, who are
15 going to be retiring and starting to retire. They are
16 the single set of age groups in California most likely
17 to have graduated from college. Young adults in
18 California are actually less likely to have graduated
19 from college than baby boomers.

20 And this, I think, poses perhaps the greatest
21 challenge to the State and is, of course, a very strong
22 link between our population and economic outcomes.

23 MR. HAVEMAN: Okay. Well, thank you very much,
24 Hans.

25 On Hans' immediate left is Bill Schooling. Bill

1 is the Chief of the Demographic Research Unit in the
2 California Department of Finance. Demographic research
3 is responsible for the State's population estimates,
4 projections, schooling projections and are the lead
5 agency for the State's Census Data Center.

6 Bill returned to demographics research last year
7 after working as a state demographer for Arizona. Bill
8 began his career in the estimates program in demographic
9 research and was asked to develop the State Data Census
10 Center.

11 He was elected as the first Chair of the U.S.
12 State Data Center Steering Committee. And Bill is the
13 former Chief of the Population Estimates Program at the
14 Census Bureau and the former manager of the Demand
15 Analysis Office at the Energy Commission.

16 Bill has a master's degree in public
17 administration from UCS and a master of science degree
18 in Cornell's Population Program in the Developing
19 Sociology School.

20 MR. SCHOOLING: Thanks, Jon, always good to see
21 some familiar faces.

22 Jon talked about letting us talk about some
23 myths today, so I thought I would -- I wanted to dispel
24 two very common myths. And the first that California's
25 in a death spiral, as a few seem to think. And one of

1 the things that pundits are citing is they're talking
2 about the lack of population growth in California.

3 And the second myth is that baby boomers are
4 immortal and I'm afraid that's not true, either.

5 As Hans was talking about the history of
6 California's demographic growth, I'd like to add a few
7 comments to that.

8 California led the nation in growth every decade
9 between 1920 and 2000. Between 1850 and 1980 we grew at
10 an annualized rate of 4.36 percent. And then the bottom
11 fell out and California essentially stopped growing.

12 In the 1980s we only grew by 2.3 percent, which
13 represents 6.1 million, and established the record for
14 most growth any state has ever had and that still
15 stands.

16 And what I also found interesting about the 6.1
17 million is that it also represented the largest
18 proportional growth of the United States that any state
19 had ever had, and that was 27 and a half percent of U.S.
20 growth.

21 And I think that's part of the problem that I
22 have when, whether it's pundits or others want to talk
23 about, well, we're growing slower, what's wrong?

24 And you look back and you can't really compare
25 the different time periods because California has

1 changed so much and we're a much larger State, we're
2 much more densely populated.

3 According to the Census Bureau, we have the four
4 top most densely populated areas in the U.S., and some
5 of those are a little bit entertaining. I think Delano
6 is one of them and that's simply because there's a
7 prison there.

8 No other State has grown by as much as 5
9 million, other than California, which we also grew by 5
10 million in the 1950s.

11 And as a little aside, if we had continued that
12 long-term annualized growth rate of 4.36 percent after
13 1980, then next year we would hit 100 million people.
14 So, those numbers, just dump them into an Excel sheet
15 and they do get entertaining after a while.

16 Since most of us arrived in California after
17 1920, it did seem somehow less than normal after 2000,
18 when we were no longer the leading state as far as
19 growth is concerned. We grew by 3.4 million, which was
20 the second most of any state between 2000 and 2010, but
21 it is a much slower are.

22 The point is that we sometimes fail to
23 understand what causes the growth to fluctuate. We
24 really have to dig a little bit deeper than just looking
25 at the percent change from year to year because it's too

1 easy to think in terms of, well, we've had this pattern
2 in the past, why isn't this pattern going to continue in
3 the future?

4 And if you dig down into the components have
5 change, as Hans was suggesting, then it starts to
6 explain a little bit more.

7 For those of you who have read, cover-to-cover,
8 the Governor's budget, in the budget he talked about
9 some of the reasons for the slower growth in California
10 in the last decade, like the housing collapse, the fact
11 that there's interstate migration, not just to
12 California, but nationwide we see less interstate
13 migration than we used to.

14 He goes on to point out some of the structural
15 changes that we see across the nation and in some cases
16 across the developed world, like the aging society, the
17 reduction in fertility rates.

18 In California, only the Hispanic population is
19 above replacement level fertility, and they're just a
20 razor thin margin above.

21 Contrary to what the *Wall Street Journal* pointed
22 out a week or two ago is that California's fertility is
23 in fact higher than the rest of the nation, and that's
24 largely because of the Hispanic population.

25 Were currently projecting that the Hispanics

1 will be the largest group in California in about one
2 year and they do have -- their fertility's about 2.2
3 right now.

4 California also has the benefit of sitting on
5 the Pacific Rim and so we think the long-term outlook
6 for immigration continues to be good.

7 By the time the Integrated Energy Policy Report
8 period is complete in 2024, we'll be able to look back
9 on that 12-year period from last year to 2024 and see
10 just how different this period is going to be from any
11 period in the history of California, and it will be
12 different.

13 The aging of the baby boomers is simply one part
14 of that, but there will be a lot of differences.

15 We know that we're going to be top heavy as far
16 as the age structure is concerned. The youngest baby
17 boomer will be 60 years old in 2024, the oldest will be
18 78.

19 However, because of immigration we think that
20 California is going to continue to be younger than the
21 rest of the nation during that time period.

22 Eventually, because the life expectancies are a
23 little bit longer in California, maybe around 2040 we
24 think that California may even be a little bit older
25 than the nation as a whole.

1 But by 2030, we're going to have eight counties
2 where the median age is at least 50 years of age. San
3 Joaquin Valley stays young.

4 Domestic migration has been a lot lower since
5 1990. In fact, as Hans mentioned, we're having a net
6 domestic out migration in most years. But there are
7 some other factors that we think may change some of the
8 dynamics of that.

9 In 1950 there were -- the majority of
10 Californians were actually born in another state and
11 that's now down to 18 percent. We don't know how that's
12 going to cause people to change their migration
13 patterns, but it's bound to have some impact.

14 Also, the out year of our projections is 2060.
15 We're expecting that there will be at least 13 counties
16 in California with at least a million people, including
17 six of them that are inland, not coastal counties.

18 MR. HAVEMAN: Okay, thanks very much, Bill.

19 Immediately to Bill's left is Jon Stiles. Jon
20 is the Executive Director of the California Census
21 Research Center and Director of Archive Services at the
22 UC Data Archive at UC Berkeley.

23 He received his PhD in sociology from UC
24 Berkeley and has research interests in educational and
25 population dynamics, integration, segregation,

1 inequality, stratification and transfer programs.

2 Recent publications addressed by sees Federal
3 estimates of food stamp rates, the use and validation of
4 survey-based administrative reports of public
5 assistance, patterns in segregation in metropolitan
6 United States in 1960 and population changes in
7 education outcomes in California for the next 50 years.

8 He's served supporting, secondary data use at UC
9 Berkeley since 1995 and is the campus representative for
10 the Intra-University Consortium for Political and
11 Research, the Roper Center for Public Opinion Research,
12 and the Census State Data Center Network at UC Berkeley.

13 Jon.

14 MR. STILES: Thanks very much for having me.
15 I've really enjoyed watching this process unfold over
16 the last few weeks as there's a circulation of
17 questions, which perhaps you elaborated on, which helped
18 us focus our attention on exactly how we can contribute
19 to this conversation.

20 As I was driving up this morning, it struck me
21 that one of the questions that hadn't been asked was
22 what am I doing here?

23 And I don't mean that in an existential sense,
24 but what is it the demographers can contribute to this
25 conversation that other people can't?

1 What I concluded is what they can contribute is
2 not actually predicting the future. There's a lot of
3 variability in population projections, they're on a lot
4 of assumptions. And as Hans mentioned, the further out
5 you get, the wider is the band around what you can
6 expect around either population size or population
7 composition.

8 What I think demographers can contribute is a
9 focus on the underlying mechanisms which are affecting
10 population size and population composition, and focus
11 our attention on what we should be watching for if we
12 are concerned about the way those things influence other
13 factors.

14 Population -- demographic techniques are really
15 easy. I mean, they're basically accounting principles
16 that say if you have a population today and you want to
17 know what the population in one year looks like, you're
18 going to add entrants to that population, so people who
19 are born or people who migrate, and you're going to
20 subtract people who leave, those who die or those who
21 out migrate.

22 We add that to another simple accounting
23 identity which is, basically, for every year you age,
24 you get one year older. And together these two things
25 can tell us that we can project, that we can step

1 through populations and look into the future based upon
2 rates which deal with those underlying mechanisms.

3 The other thing that demographers bring -- the
4 other thing that demographers bring to the table are
5 they create some really pretty pictures. And one of the
6 pictures that demographers are really fond of are
7 population pyramids, which represent the population as
8 stepped, five-year age bands, where the width of the
9 band represents that portion of the population that is
10 in that area.

11 And if you take a look at California in 2010,
12 what you'll see is a nice, almost house-shaped figure,
13 but it has two kind of characteristics. One is it's got
14 a set of shoulders and that set of shoulders is the
15 population aged 55 to 65, and these are the baby
16 boomers.

17 It has a little bit of an indent for a waist,
18 and then we have a set of hips on this population
19 pyramid. And this is the population that's age 15 to
20 25.

21 Well, the population that's age 55 to 65 is the
22 population that's going to be retiring in the next 10
23 years. And the population that's 15 to 25 is the
24 population that's going to be replacing them in the
25 labor force.

1 It's also a population which is dramatically
2 different from the population which is retiring. The
3 population that's retiring is largely non-Hispanic
4 white, while the population which is entering the labor
5 force, or which is in the ages of 15 to 25 is becoming
6 more and more Latino. Over half of the population
7 between 15 and 25 are Latino.

8 These are populations which have traditionally
9 faced education with disadvantages, whereas the
10 population which is leaving the labor force is the most
11 highly educated set of cohorts in California.

12 Which brings us to the question of when we do
13 projections and when we want to relate this to other
14 issues, we often say there's an association between a
15 set of characteristics, whether it's a stage in the life
16 cycle, or other things like home ownership, or poverty
17 rates, or labor force participation.

18 And we do the same thing with other
19 characteristics that we link to our population
20 projections, things like race and ethnicity.

21 It's important to realize that those are not
22 fixed, but those are associations, that those are things
23 that could change. And those are things that we should
24 be thinking about when we're thinking about the
25 relationship of demographics with the economy, as to

1 what kind of policies can change those associations.

2 In particular, when we look at the population
3 who is entering the labor force, who is making the
4 decisions either about to stay in college, going to
5 college, going to school, we need to think about how we
6 are going to be moving that set of the population into a
7 position where they can fill the void being left by the
8 most educated cohort in California.

9 MR. HAVEMAN: Okay, thank you, Jon.

10 Immediately to Jon's left is Simon Choi. Simon
11 joined the Southern California Association of
12 Governments in 1991 and has 30 years of experience in
13 the field of applied demography and planning.

14 As Chief of Research and Forecasting for the
15 Southern California Association of Governments, Simon
16 develops long-term regional demographic forecasts for
17 diverse urban and regional planning purposes.

18 He develops and maintains the state of the art
19 demographic forecasting models at SCAG.

20 Simon taught project courses on urban planning
21 and growth forecasting at the University of Southern
22 California, and Simon was a research member of the
23 Korean Institute for Human Settlements.

24 He received a bachelor's degree from the Yonsei
25 University, master of city planning from Seoul National

1 University, and a PhD in planning from the University of
2 Southern California.

3 Okay, Simon.

4 MR. CHOI: Thank you. It is my pleasure to be
5 here. Since I came from a different work environment,
6 the other three, you know, are real demographers, but I
7 am a demographer and also a planner, so I will add a
8 different flavor in the discussion.

9 Of course, I have been working on this
10 projection over the last 20-year period, but also and
11 always I try to work together as planning. You know,
12 the travel plan is to work together with the many, many
13 stakeholders. That flavor is included in our agent's
14 projection, like the many other, the NPO or Region
15 Planning Agency in California, they do similar to we.

16 And, you know, SCAG is covering Southern
17 California's counties. You know, I don't know other
18 parts of California so, probably, you know, I'm going to
19 focus on that six counties. But the population is
20 pretty big, 18 million plus, and that accounts for six
21 percent of the nation and 48 percent class of California
22 population.

23 And it is the fifth largest state if we call it
24 a separate independent state.

25 So, because of that size, we always look at, you

1 know, population using -- of course, we use cohort model
2 and different model to, you know, understand what the
3 picture should look like.

4 And, you know, I'm going to share my experience
5 with you and for how I developed our new projection.

6 Actually, we had a new projection adopted in
7 April 2012, that happened just a month ago and for three
8 years we had been working on finalizing projections, and
9 a lot of things happened. So, I'm going to share that
10 one.

11 Before I get in there, you know, Hans and the
12 Bureau talk about historic pattern of growth in
13 California, and I'm going to add Southern California,
14 SCAG region's growth in compared to the nation and to
15 the State.

16 Actually, until 1990 SCAG was guiding -- the
17 SCAG region was great California growth, research
18 showing much faster growth.

19 But after 1990, over the last 20-year period,
20 the growth is really behind the California growth. That
21 means SCAG region is no more leading area of the
22 California's population growth.

23 And, you know, if you look at relation, of
24 course, you know that now the SCAG region, as well as
25 California, are one of the other regions not anymore

1 showing faster growth we observed, you know, 30 years
2 ago or 40 years ago, so that has happened.

3 And monthly I look at the Census Bureau's new
4 population projection and that projection is a little
5 bit lower projection than they did -- they had four
6 years ago, 2008.

7 And when I look at 2035, they're new projection
8 is 20 million more than previous one, previous years,
9 and basically migration is a big factor over there.

10 And I look at the SCAG region's population
11 growth that I have and then their new number. SCAG's
12 growth, you know, the annual average is 0.9 percent.
13 And Census Bureau's nation level annual average growth
14 is 0.8 percent.

15 So, still, we are -- you know, however, still we
16 have a little bit better more optimistic outlook in
17 terms of population growth.

18 So, that is where we are and I feel, you know,
19 how we're going to project in SCAG region's projection
20 pretty much seems high from that perspective.

21 And then let me talk to you about, you know, my
22 experience related to the power purchase development,
23 the first one.

24 When we started, you know, our projection, we do
25 that for our regional plan, called the Regional

1 Transportation Plan, or the Sustained -- or Region
2 Housing Assessment.

3 We need to develop population and other
4 variables, too, housing and employment. You know, those
5 things are used to develop plans, so we should have a
6 really good, you know, forecast to figure over there.

7 And in 2009, we started this projection and at
8 that point, you remember that, in 2007 we started a new
9 growing recession in the nation. Of course, basically
10 started in our area, Southern California Region, and in
11 two or three years when you look at it, 800,000 jobs
12 lost, 800,000 jobs are gone immediately.

13 That happened in SCAG region. They can't
14 develop projections without looking at the jobs.
15 However, 800,000 jobs are gone and, you know, what would
16 happen to population part? You know, people keep asking
17 the question and we would answer that question.

18 And in many cases before, you know, what it did
19 is, okay, short-term conversation or those things are
20 not part of our population projection because we don't
21 know the recession is going to happen in the middle of
22 population projection. So, we didn't know that and we
23 use some average, something like that.

24 However, this time it's different. We had the
25 recession and we need to develop population for the next

1 five years, ten years. And, of course, eventually we
2 did develop 30-year projection and we had difficulties.
3 So many challenges over to answer the question, you
4 know, in order to answer that question we need to link
5 job recession and recovery. We're just framework, we're
6 the population -- you know, in order to tell the story
7 for our local jurisdictions, all of stakeholders
8 involved in this population projection process. That
9 was the difficult part.

10 Of course, we eventually had an annual panel of
11 experts to get input about where this region is going so
12 we cannot -- so, we did it every year to collect
13 information and then, eventually, and that was our third
14 one, I think.

15 And the second one is you need a good trend data
16 set, a recent data set to develop some projections. But
17 at that time we have a choice, right, DOF develops
18 estimate, also the Census Bureau developed estimate.

19 You know, in 2008, 2007 over here estimates are
20 far from U.S. Census. And now Census and DOF give us
21 maybe a different estimate over there. Usually we stick
22 to DOF because we are part of the State. And that is
23 not small.

24 You know, when we check data in 2009 and '10,
25 there is 800,000 or more. That is the -- so, that is

1 the chore that we faced.

2 And, eventually, that was corrected when the
3 2010 Census was conducted.

4 The point is, this is not traditional activity.
5 You needed to change your projection every moment,
6 whenever the information is available, and you should be
7 objective. We did it. And, usually, the projections
8 were wrong perhaps half the time -- there it was, then
9 they forget and the next two or three years they need --

10 And from the one is, you know, the later -- the
11 May 2012, Europe developed entry projection for the
12 State of California and it was recently, the December
13 2012 Census produced the projection.

14 Fortunately, our SCAG region's population
15 projection for 2035, when I compared that one to DOF
16 number, its difference is only 0.3 percent.

17 And I feel very fortunate and lucky, and because
18 those two different agency are in the same position, you
19 know, the same page. And, also, the region developed
20 data from the county to this regional block, area, and
21 then they already -- you know, they agreed by all those
22 local cities and counties in the region.

23 And, basically, we were able to develop whole
24 data from large area of the State to very small area,
25 you know, through the kind of nice consensus,

1 collaborated by -- you know, that is the kind of work,
2 you know, I think, already a high submission of the
3 balance of economic and population we've always
4 considered the kind of relationship between jobs and
5 population, and household, and tried to -- you know, the
6 relation of that, all of the projections make sense in
7 terms of relation. That is the emphasis.

8 And also, we talked about uncertainty here.
9 And, you know, of course, eventually these projections
10 have created some uncertainty.

11 But, you know, in our case we put those two --
12 major variables, like population, households and jobs to
13 give a nice package and develop a -- and if these -- you
14 know, we have a different cause of -- underline those
15 differences.

16 That is how we do it. And we don't know which
17 one is correct, but that -- you know, that perspective,
18 I think that the emphasis is pretty much, you know, the
19 consensus approach of so many stakeholders I involved,
20 and we listened to all of those stakeholders to put
21 those things together and tried to come out with, you
22 know, the consensus forecast.

23 That's how we do it and that's my story.

24 MR. HAVEMAN: Okay. Well, thank you very much,
25 Simon. And thanks to all four of you, those were very

1 informative sets of opening remarks, almost rendering a
2 bunch of my questions that Jon alluded to a little bit
3 obsolete.

4 But I'm going to go through them, nonetheless,
5 so that we can collect all of your thoughts on the
6 various issues.

7 And I think the issues will sort of boil down to
8 three different categories. And one is trends and
9 population growth forecast for California as a whole and
10 we'll talk a little bit about that.

11 Then we'll move down to the various regions.
12 You know, are forecasts substantively different for the
13 various sub-regions of California? I imagine that they
14 are and look forward to hearing what you have to say
15 about that.

16 And then, perhaps, we'll get on to some special
17 topic issues such as, perhaps, integration, household
18 formation rates and the like.

19 So, to start off, and I would like to get
20 thoughts from all four of you on this question.

21 Actually, before I forget, let me go through a
22 question that Kate just handed to me. You know, she's
23 wondering, you know, what data are you more likely to
24 use, the Census or the DOF data?

25 And the answer really is both. Is that

1 sufficient?

2 (Laughter)

3 MR. HAVEMAN: We would like to get a little bit
4 more insight into the differences between the two data
5 sets.

6 Hans, maybe we'll start off with you.

7 MR. JOHNSON: I use both.

8 MR. HAVEMAN: Yes.

9 MR. JOHNSON: Sorry, Kate.

10 So, the Department of Finance has more
11 information on what's happening at county and city
12 levels, so it produces its estimates more recently. And
13 for those of you who don't know, demographers
14 characterized an estimate as a population that
15 represents now or the past, and a projection is a
16 population figure that refers to the future.

17 So, I use both. And as Simon alluded to, in the
18 late 2000s, just before the 2010 Census it was problem
19 because they were so very different.

20 And Bill will probably want to talk about why
21 they were different and how the 2010 Census came out,
22 which, if you take it on its face, seemed to suggest
23 that the Census estimates were actually closer to what
24 had been happening in California than the Department of
25 Finance estimates.

1 Having said that, though, I think I appreciate
2 and used the Department of Finance estimates partly
3 because they're more timely, they provide more detail at
4 the county level, but also because they have, I think,
5 an understanding and a discussion with stakeholders in
6 California about what's happening locally.

7 In terms of projections, again, at PPIC, where I
8 work, we rely on the Department of Finance, primarily,
9 again because they provide more detail, they're here,
10 and the Census Bureau doesn't really do much. And
11 whatever they do, they have to do for the entire nation
12 and California's just one subset of that.

13 But there are other sources of demographic data
14 that come from the Census Bureau, including their
15 surveys, and the American Community Survey, most
16 importantly, that I use all the time, and that I think a
17 lot of us use and I know Bill uses, and his staff uses
18 when they're looking at what's happening with our
19 population and how it's changing. And that's a
20 tremendous resource. The sample size is huge. It's
21 much larger than the Current Population Survey which is
22 used to look at unemployment rates. We use the Current
23 Population Survey as well.

24 But the American Community Survey from the
25 Census Bureau's a fantastic product for those of us who

1 are looking at state level data.

2 MR. SCHOOLING: I'm afraid to say we use DOF
3 data. But, no, we also look at the Census Bureau
4 information. And in fact, the last decade, before I
5 went to Arizona, I arranged a meeting between the Census
6 Bureau staff and DOF staff to try to understand why
7 there were differences, and they were substantial. And
8 this was the first decade where the Census Bureau's
9 method turned out to be better than the DOF method.

10 And I think there were a number of explanations
11 for that, but part of the answer is simply that the
12 county/state method that Finance had been using had
13 grown a little bit tired, and some of the data that had
14 been used for that method didn't test very well, and
15 it's in the process of being reworked.

16 So, we'll see what the next decade holds.

17 MR. STILES: We're very omnivorous when it comes
18 to using data. So, from the Census Bureau we rely on
19 the ACS, we rely on the Decennial Census, we rely on the
20 Current Population Survey. All of those ask different
21 questions that allow you to get at different things.

22 We also take a look at things like vital
23 statistics, which feed into demographic models so you
24 can take a look at, first -- instead of kind of dealing
25 with it in a simple way by, you know, race or ethnicity,

1 you can also break it down by education, you can break
2 it out by negativity, which allow you to get at some
3 issues that, you know, simple population projections may
4 not do.

5 We also take a look at kind of new forms of
6 data, where they are kind of merging administrative data
7 with survey data, so a really popular source of that
8 kind of information is called LED, or LEHD. It's the
9 employer household data which comes out of the
10 Administrative Quarterly Workforce Earnings Data, which
11 is subsequently linked by the Census Bureau to surveys
12 of businesses, until you get extremely fine detail.
13 It's released as synthetic data because, of course,
14 there's disclosure risks with it.

15 But all of these forms of data can inform
16 different parts of the discussion about how the
17 population is changing.

18 MR. CHOI: Yes, we also, as a planning agency,
19 use both, each data set for different analytic purpose.

20 But sometimes we are, you know, bound by State
21 law to use -- we are supposed to use the DOF data set.

22 For example, we have the State Regional Housing
23 Assessment Program and they clearly say that we need to
24 use the DOF data for the base year, even for the
25 projection we should -- our numbers should be close

1 enough to DOF. If not, we are supposed to use DOF
2 numbers.

3 That kind of, you know, the State laws are there
4 and, you know, make us use it.

5 However, we also develop different plan, like
6 the Region Transportation Plan, it is Federal program
7 and they don't specify the kind of requirement, but only
8 requirement is they want to us to use most recent,
9 latest information when we develop plan. So, we have a
10 choice, Census or DOF.

11 So, otherwise, we generally use both data
12 whenever needed, you know.

13 MR. HAVEMAN: Okay, thank you, gentlemen. Now
14 that we've satisfied a bunch of the data junkies in the
15 room, let's turn to sort of some bigger picture issues
16 for California.

17 Several of you remarked on this issue already,
18 but the issue is how do you expect California's
19 population growth to be in the near future?

20 And, Hans, I don't think we need to go out 100
21 years, but probably just the next 10 to 20 would
22 suffice.

23 But how do you expect future population growth
24 in California to be different from the historical rates
25 and what are some of the driving forces behind those

1 differences?

2 MR. JOHNSON: I'm going to punt to Bill, who's
3 about ready to be producing new projections for
4 California.

5 MR. SCHOOLING: Okay. Well, as you know, growth
6 in California has slowed down after 2005, with the
7 housing collapse. And even it's still been slow in the
8 last couple of years, but we're seeing some signs that
9 it's picking up and we think that it will start growing
10 and has started to grow a little bit faster over the
11 period that you're concerned with, the 2024.

12 However, again, it's not going to be -- we're
13 not going to see those three and four percent per year
14 type growth, it's not going to be anything that high.

15 And by the way, the UN projected all the way out
16 to 2300, but their range was 2 billion to 36 billion.

17 MR. JOHNSON: And they don't even have to take
18 into account migration.

19 MR. SCHOOLING: That's right.

20 MR. HAVEMAN: Anybody else want to weigh in?
21 Jon?

22 MR. STILES: Well, I would expect it to be
23 fairly small. If you look at kind of the post-work
24 period, we've had basically three kind of peak periods
25 where there's been relatively large growth. And kind of

1 in the late fifties and early sixties where you got
2 growth that was up to like 4 or 4 and a half percent of
3 the population.

4 We had another peak in the late 1980s where it
5 got up to about two and a half percent of the
6 population.

7 We had a third peak around the turn of the
8 century where it got up to about one and a half percent.

9 Those were all driven by different factors. So,
10 in kind of the first peak what we saw driving that was
11 primarily domestic migration. I think that Hans went
12 through this, as well.

13 In the second peak what we saw driving this was
14 still largely domestic migration, but also fertility.

15 The third peak was driven almost exclusively by
16 natural increase. In fact, what we've seen since
17 basically 1990 is domestic migration has been negative
18 in the State except for, you know, a brief period around
19 the turn of the century.

20 If you break down the domestic migration even
21 further what we see is in-migration to California seems
22 to be actually fairly steady, around 300 to 400 thousand
23 per year.

24 What really seems to be jumping around and
25 driving the variability of the net migration, net

1 domestic migration is migration out.

2 So, part of that is absolutely being driven by
3 the economy. It's a little difficult to say what's
4 going to happen. We expect our economy to be
5 recovering. But we also expected the economy of the
6 rest of the county to be recovering.

7 So, I would anticipate that we would be seeing
8 growth along the order of what we've seen it the last,
9 you know, five to six years which is, you know at one
10 percent or below.

11 MR. CHOI: Yes, I looked at the DOF, the
12 database focusing on our SCAG region and, you know, in
13 early 2009 I looked and every year we added 300,000
14 people, you know, then regionally. And now, it became
15 150,000 per year. So, we added only 300,000 since 2010
16 Census.

17 Now, we are having 20.3 million and 48 percent
18 of the California State population.

19 So, that is what's happening. However, given
20 the Census Bureau's national level projection, still we
21 are within range, still we maintain six percent of the
22 future national population, you know, in 2035. So, I
23 think still we maintain our share.

24 And Jon was mentioning about the migration and
25 it cannot be -- definitely, we translate that into our

1 monitoring process. So, if there is a kind -- if the
2 economic is -- then, you know, unemployment rate is
3 going to get low and, you know, then eventually get a --
4 bring in more migrants, especially from the other parts
5 of the country.

6 And international immigration is beyond our
7 control because we never know, so we try to use the same
8 kind of historical pattern to some extent. But always
9 we adjust our domestic in and out migration depending on
10 economic value. So economy plays a big role as
11 constrained over there.

12 So, if somebody gives us a big, you know, job
13 projection then eventually we need to bring in more
14 migrants and then we have a more population compared to
15 available jobs.

16 By doing that, we maintain some balance and we
17 have some set, a coherent set of data set.

18 MR. HAVEMAN: Thank you. And a related sort of
19 question here is to what extent might water supply
20 influence California's population growth?

21 MR. JOHNSON: Let me note, statewide
22 demographers have not used and still don't use water
23 supply or constrained water supply as a factor in
24 developing their projections.

25 My understanding is that there is plenty of

1 water in California in urban users if we have a tradeoff
2 between urban and agriculture uses. And so the vast
3 majority of water use in California remains in
4 agriculture. That doesn't necessarily mean it's a good
5 outcome if some of that water starts getting used for
6 urban use instead of for agricultural use.

7 But it is the case that urban users have been
8 and will continue to pay a lot more for water than --
9 per unit of water than agricultural users do.

10 So, there were water markets in times past where
11 agricultural users have been happy to sell their water
12 to urban users because the urban users are willing to
13 pay a pretty high price for it.

14 So, I don't know that there's really so much of
15 a problem with capacity. And I know that there are a
16 lot of water people who are working on water capacity
17 and figuring out how to increase capacity.

18 But from a population stand point, it's hard to
19 imagine that water is going to be really the key
20 constraining factor in our population growth going
21 forward. That's my view.

22 MR. SCHOOLING: I agree with Hans.

23 MR. CHOI: The water supply user is -- you know,
24 the population did a county level of the probability
25 that it might not be an issue at all because water can

1 be available through many sources.

2 But if you go down to some city level, some city
3 might be very concerned about their water and, you know,
4 supply, and water increment because they need to invest
5 money to make water increment available, or those things
6 should be available as part of infrastructure, but they
7 cannot invest. That is the region.

8 So, sometimes because of the water supply or
9 water issue, they might have, you know, the lower, you
10 know, the projection. Then we think, you know, we say
11 so what's the solution and there might be some concern
12 there.

13 MR. JOHNSON: And I think sometimes local
14 governments have used water to keep growth from
15 occurring. So, there's a causal question here of
16 whether it was -- for example, Marin County has had very
17 little population growth for a long time. That is an
18 intentional policy in Marin County, there's open space
19 preservation.

20 And one way they've achieved that is by limiting
21 water hookups.

22 Marin County, presumably, if they wanted to have
23 more growth, could probably go out and find more water
24 to bring in and provide more water hookups.

25 But there's a political consensus in Marin

1 County that is opposed to new growth.

2 And so I would not necessarily characterize that
3 as a water issue for Marin County, as much as it is a
4 political consensus in Marin that they don't want
5 growth, and one way they can run with that is by not
6 having new water hookups.

7 MR. HAVEMAN: Okay, that's enough bad-mouthing
8 of Marin.

9 MR. JOHNSON: Where Jon lives.

10 MR. HAVEMAN: That's where I live.

11 So, a bunch of different demographic trends have
12 been mentioned throughout your opening statements and
13 answers to the previous questions. Now, I'm going to
14 get you to sort of pinpoint what sort of the most
15 important trends are for California, you know, just your
16 top two, of course, over the next decade, decade and a
17 half.

18 MR. JOHNSON: So, my top one is the aging of the
19 baby boom and the need to replace those skilled and
20 highly-educated workers with a new cohort of young
21 adults with high levels of educational attainment in
22 California.

23 Jon Stiles has done a lot of work with this.
24 We've done work on this at PPIC. I think it is the
25 single biggest threat to California's future prosperity

1 if we aren't able to improve educational outcomes for
2 young adults in our State.

3 And that's certainly both something that feeds
4 into the economy and that the economy helps create the
5 demand for.

6 But right now, from our projections,
7 California's going to fall well short of where we need
8 to be in terms of producing college graduates unless we
9 have increasing rates of college going among recent high
10 school graduates, and then our college completion for
11 those who are in college.

12 MR. SCHOOLING: And again, I would agree with
13 Hans and I think part of that discussion involves
14 ensuring that the future of Californians, who are more
15 diverse than historical California has been, are able to
16 have those educational opportunities to ensure a smooth
17 transition into the future of California is going to be
18 big.

19 MR. STILES: I'm going to have to sing with the
20 choir on this one. I absolutely think one of the most
21 important things is how we're going to be educating that
22 large cohort of young adults in California who are going
23 to have to replace the retiring baby boomers.

24 Somewhat related to that is the issue of
25 domestic migration and to what extent that California is

1 going to be able to attract and continue to attract the
2 most educated.

3 Because while in general domestic migration has
4 been a net negative for California, that is not true
5 equally across all educational veins. California
6 continues to attract the more highly educated and tends
7 to lose the less educated. And the extent to which
8 California is able to do that is, I think, important.

9 MR. CHOI: I read, you know, a lot of those
10 numbers and the aging baby boomers, this really has a
11 serious effect. In the SCAG region we have two million
12 people that are 65 years old or more. But, you know, 20
13 years later that number will double. So, you know,
14 guess what might happen? We need to do a lot of study
15 over what kind of community needs are needed.

16 In addition to that, actually, you know, I have
17 one issue that we need to pay attention to, and that is
18 relatively low fertility rate of Hispanic immigrants.
19 And these women, you know, they do not have a baby or
20 children that is as observed in the past and they're
21 quickly reducing the number of children they might have.
22 And it moves very, very fast to a certain extent.

23 And, of course, it is relative to the kind of
24 recession we recently observed. But to a certain extent
25 many of the women who are in the minority go to college,

1 and they delay their marriage and delay their having
2 kids, and those things.

3 So, probably, that could have a serious impact.
4 So, on the one side we are seeing more of aging
5 population and then less children and middle, the
6 working population where we, to some extent, need to
7 support all those people.

8 So, that is one thing. And the other one is a
9 little more of the region is that, you know, we see more
10 people that are in place in suburban areas, they're not
11 going to move back to the city or where the cities are
12 developing.

13 So, probably, eventually, you know, probably 20
14 years later this is probably very severe. But, you
15 know, a lot of facilities need to be available through
16 the mortgage system, you know, because they can't drive
17 from the suburban areas, you know, to the service areas.
18 So, those kind of service delivery systems should be,
19 you know, conducted or discussed.

20 MR. HAVEMAN: Those are the two that I think are
21 certainly just aware of. And I look at population
22 change charts for the Bay Area and you see a decline of
23 a population of about 200,000 in the 35 to 54 age group,
24 and a similar increase in the 65 to the 75 age group.
25 That's got serious implications for policy in that area.

1 And at the same time you see home prices -- even
2 after the bubble has burst, you see home prices much
3 higher in the Bay Area relative to other places in the
4 United States than they have historically been, making
5 it harder to attract people to fill those jobs that are
6 going to become available.

7 So, it's really a challenging opportunity.

8 You know, that said, and those two I think are
9 the elephants in the room, what we'd like you to talk a
10 little bit about is sort of what's the major trend that
11 nobody's aware of? Is there something happening out
12 there that's sort of off the radar screen that, you
13 know, the Energy Commission or other policies might do
14 well to be aware of?

15 MR. JOHNSON: Well, I think there are a couple
16 that I would mention. Certainly one thing, if I was at
17 the Energy Commission and I wanted to be thinking about
18 new housing, from a population demography stand point,
19 we look at household formation rates. And one
20 characteristic of young adults in California, and more
21 so here than in the nation, but also in the nation, is
22 that they've had relatively low household formation
23 rates compared to previous generations of young adults.

24 And there are a lot of reasons people are
25 positive for that, certainly the recession is one of

1 them. It's harder to go out and form your own household
2 it takes money when you don't have a job.

3 And also, people have mentioned student debt and
4 rising student debt as a competing source or prevention
5 from people being able to consume more housing or
6 housing in the way that they would have in the past.

7 On top of that we have these long-standing
8 trends in our society towards later ages of marriage,
9 later ages at having children, and that fewer children
10 as well, all of which would serve to depress household
11 formation.

12 So, I think one key thing that I would look for
13 and it's not a trend that necessarily anybody doesn't
14 know about, because it hasn't happened yet, but it is to
15 what extent is this young adult generation going to
16 start catching up as they age into their thirties and
17 older, and start consuming and forming households at
18 rates that we would expect based on an historical
19 standard?

20 And if they do that, then there will be a pretty
21 dramatic increase in the demand for housing in
22 California and that demand for housing will occur in the
23 context of even though we've had this big bust, vacancy
24 rates in California are pretty low. They're low
25 compared to the rest of the nation. They're higher than

1 they were in California in the past, but there isn't a
2 tremendous amount of housing that can be consumed
3 because it's vacant now and people would be able to move
4 into it.

5 And in fact, when we look at rental housing for
6 example, we have some of the lowest rental housing
7 vacancy rates in our metropolitan areas in the nation.

8 So, that does mean if there's this uptick in
9 demand for new housing among these young adults, as they
10 start to age, that should get expressed as new housing
11 construction in the State.

12 The other trend that I think is at least
13 somewhat new and really remarkable has to do with
14 international migration to California. Over the last
15 five years or so we've had a tremendous change in the
16 countries of origin of those migrants. In 2005,
17 about -- well, I have the numbers here.

18 For the preceding year, 142,000 arrivals came
19 from Latin America, this is using the American Community
20 Survey, 108,000 came from Asia, so substantially more
21 from Latin America than from Asia.

22 In the most recent year we have data for, 2010-
23 11, and this is continuing a trend, this isn't just a
24 one-year thing, but this has been happening
25 consistently, now the number of immigrants from Asia is

1 about two and a half times greater than the number from
2 Latin America, 159,000 from Asia, 60,000 from Latin
3 America.

4 And there are very large differences in those
5 immigrants in terms of educational attainment. Some of
6 the best educated residents in California are, for
7 example, immigrants from India, over 70 percent of them
8 have a bachelor's degree when they arrive here.

9 MR. SCHOOLING: Well, I think one of the things
10 that at least I consider interesting is, and Simon
11 talked about this, how far the Hispanic fertility rate,
12 even though they are still the highest in California,
13 how far they have fallen. And watching that to see how
14 much of a bounce back we get once the economy is pumping
15 along at a little bit higher level than it is now, we do
16 expect to bounce back, but we don't know how far it will
17 bounce back, or if that will be a temporary rebound.

18 I would also think the -- a couple of studies
19 that I've seen recently have indicated that interstate
20 migration has fallen across the U.S., which is
21 interesting in and of itself. But I thought that might
22 be just attributable to the older age groups because as
23 we age, we're less likely to move across state lines.

24 But we did look at it and in fact it's across
25 all age groups that there has been a decline in

1 interstate migration.

2 It's not very much once you're past 35, but it's
3 very significant under 35 how much less they're likely
4 to move across the state line. And we don't know how
5 that's going to play out in California in the long run.

6 We don't know, for instance, if it's a
7 generational issue that the current generation wants to
8 stay closer to home?

9 We're also considering maybe this is due to
10 smaller family sizes. You know, back in the Middle Ages
11 people who weren't the oldest son would tend to go off
12 and join the military. And maybe because they're all
13 only a couple of kids in most families, maybe that's
14 just drawing them a little bit closer and a little more
15 reluctant to move out.

16 International migration; California's still the
17 primary gateway for the U.S. and I don't see that
18 changing. I think U.S. policy can certainly have a
19 major impact there.

20 We see studies that talk about the huge increase
21 in foreign-born population in other states. I think
22 there was one that talked about a third of the foreign-
23 born population in several states, Montana, North
24 Dakota, and so on have arrived since 2005. And that
25 kind of blows you away when you think of the huge

1 number, but then you look at it and in fact it's only a
2 few thousand people. So, we have 10 million, so it's
3 not a real comparison.

4 So, I think that U.S. policy is kind of an
5 unknown there.

6 MR. STILES: I can't think of any particular
7 hidden trends. I guess what I have is a question and a
8 topic that I'm watching pretty closely and that's when
9 this recession is over, when this housing bust has
10 bottomed out, which it seems to have, what's going to
11 happen? How's that going to affect the population
12 change?

13 And there's at least three paths that we can
14 think of. One is that recessions, in general, tend to
15 have an effect on depressing fertility. So, we're
16 expecting that there's fewer people that are being added
17 to the population in the recession than would otherwise
18 be the case.

19 The second is because of the over-valuation of
20 houses many people were locked into their house. Even
21 if there are job opportunities elsewhere, they can't
22 take advantage of those job opportunities because it
23 would force them to take an extremely large loss, and so
24 that has depressed migration.

25 And then the third, of course, is that in

1 depressed economies we tend to see people pooling
2 resources and so we get household consolidations among
3 generations and among friends and relatives.

4 As this recession recedes, it will be really
5 interesting to see how those things which, presumably,
6 all should lead to increase in both household formation
7 and in population size will play out.

8 MR. CHOI: In the morning session I saw the
9 nice, two-line charts showing the pattern of energy
10 consumption and job employment. And, interestingly,
11 those two variables showed a really good, high-level
12 correlation, and I am very impressed.

13 But in order to be a good model and in order to
14 regularly, tell the history and align the model, and I
15 believe it's probably considered more variable.

16 And from the demographic side we have a great
17 data set by age, and by immigration status, by length of
18 period, overall period of immigrants. Because depending
19 on how long the immigrants stay here, they have a
20 different energy consumption pattern.

21 And then, also, you know, the fertility behavior
22 of different ethnic women and those things can be part
23 of our modeling framework and tell us, you know, that we
24 can develop a different scenario depending on, you know,
25 how demographic future look.

1 So, at least by doing that I know we can have a
2 more, you know, plausible policy options.

3 MR. HAVEMAN: Okay, thank you.

4 So, this is a question that I know each of you
5 could probably spend hours talking about, but if
6 relatively briefly you could talk about the regional
7 differences we might expect to see in population growth,
8 are coasts more likely to grow or are inland areas more
9 likely to grow?

10 And in particular, is migration within the State
11 currently coast to inland or vice-versa, and is this a
12 long-term pattern?

13 MR. JOHNSON: I'm punting, again.

14 MR. SCHOOLING: I think we'll see a continuation
15 of that coastal to inland trend, with the coast
16 reinforced with immigration.

17 We see a lot of growth still in the Inland
18 Empire, and the rest of Southern California as well.

19 MR. HAVEMAN: Excuse me, Bill, I'm just told
20 that people are having a hard time hearing.

21 MR. SCHOOLING: We do see a lot of growth in the
22 San Joaquin Valley, as well as in the Inland Empire. We
23 think that the Sacramento area, including some of the
24 outlying counties will grow substantially, as well.

25 Where we don't see growth are the more remote

1 areas. If you get up into Northern California, to the
2 North Coast, or the Siskiyou, and Modoc, and Plumas, and
3 even further down into Mono and Inyo County, and in
4 between the population is aging. We're looking at a
5 median age of more than 50 by 2030. So, we don't see
6 the growth until that population is replaced, which it
7 eventually will be, but very little growth there.

8 MR. SCHOOLING: Anybody else want to weigh in on
9 regional differences?

10 MR. CHOI: In California, you know, as I
11 mentioned to you, SCAG region is pretty big and we
12 observe, you know, the several organizations, actually,
13 the Coastal County, Los Angeles, and Orange County, you
14 know, they are what your county and natural point is
15 there already, and a lot of people have now moved to
16 neighboring counties, Inland Empire, Riverside, and San
17 Bernardino County.

18 And let me read some statistics for you, the
19 last 20 years, between 1990 and 2010, those two towns,
20 Riverside and San Bernardino County, we called it Inland
21 Empire, increased their share from 18 percent to 23
22 percent, simply the share increased by 5 percent over
23 the last 20 years.

24 That, you know, a lot of people have moved from
25 that coastal town to Inland Empire.

1 And, of course, we assume that this pattern will
2 continue the next 25-year period, between 2010 and 2035
3 the path of growth in the region will occur in this
4 Inland Empire.

5 Total growth over the region is around 4
6 million, we will add 4 million people into SCAG region
7 between 2010 and 2035. And, you know, almost nearly 2
8 million people will live in those two Inland Empire
9 Counties, as you heard about it in kind of a big
10 movement that will occur.

11 Even though the future projected total
12 population size was scaled down compared to previous
13 projection surveys, still the pattern continues.

14 And also, in terms of aging distribution, you
15 know, the aging employees happens, still the people are
16 getting old in the place they live now.

17 MR. HAVEMAN: Okay. Well, thank you very much,
18 gentlemen.

19 I think I'm going to offer you the opportunity
20 to offer up some closing comments. If any of you would
21 like, take a minute or two to summarize your thoughts?

22 MR. JOHNSON: So, I'll start. I think that one
23 of the fundamental tensions going forward is that we've
24 gone through this period that's been pretty volatile,
25 caused by a lot of uncertainty or a lot of volatility

1 especially in domestic migration. It was the source of
2 the difference between the Department of Finance
3 estimates and the Census Bureau estimates in the past.

4 And there's some really interesting trends that
5 we're observing, that you've heard about here today.

6 And I think most of us think that the
7 international migration is going to remain strong to
8 California, maybe not as strong as it was in the past,
9 but still pretty strong.

10 And so the real question about what the State's
11 future population is going to be is going to depend on
12 how much movement we have here from other states.

13 There's, I think it's Gallup, it might be
14 another one of the national survey firms, that asks a
15 question every year or two about what state you would
16 like to live in, if you didn't live in your own state?

17 And California almost always ends up number one
18 or number two in that list. You know, it's kind of a
19 pop question so we probably shouldn't take the answers
20 too seriously, except that I think it suggests that
21 there is still a strong kind of attitude or idea in much
22 of the country that California's a desirable place.

23 And I think what keeps a lot of people out of
24 California has to do with certainly the economy, most
25 recently, but maybe more longer term has to do with the

1 cost of living here, and really that comes down to
2 housing.

3 And the places in California that have the
4 highest housing costs are also the most constrained in
5 terms of how much population they can or are willing to
6 accommodate.

7 And I think that those kinds of issues are going
8 to govern, to a large extent, where we end up as a State
9 in terms of future population.

10 MR. SCHOOLING: Well, there are just a couple of
11 things that I'd like to mention. A PEW Study from last
12 year talked about a survey that they had done in Mexico
13 and the background on it was that right now or over the
14 last couple of years that emigration has equaled
15 immigration from Mexico to the U.S. And they talked
16 about how the fertility in Mexico has gone down, the
17 economic improvement that Mexico has seen, and what the
18 potential is for the future.

19 But they also conducted this survey in Mexico
20 where they found that 38 percent of the residents would
21 move to the United States if they had the opportunity.
22 So, there's still that dynamic out there and that
23 potential.

24 The aging of the baby boomers, there's still
25 some cards that haven't been played, I think by the baby

1 boom.

2 Kate, at one point, had asked the question of
3 what demographic trend is going to have the biggest
4 impact in California and I think the answer to that is
5 the one we don't see coming. There's always going to be
6 a surprise.

7 MR. STILES: I don't think I have anything to
8 add to my comments.

9 MR. CHOI: Okay, I want to say that, you know, I
10 came from a planning agency so pretty much I have a
11 comprehensive or more, you know, integrated perspective
12 on dealing with demographic issues.

13 So, when I develop a population projection of
14 course it's composed of three major components. First,
15 there's migration and, however, when you develop --
16 some, you know, assumption over there I look at job
17 perspective, also. And also, housing, you know, there
18 are projection, too. All of those information are
19 coming from different sources, so many people and, you
20 know, you need to sort out how -- you know, which one
21 would be reasonable in the future to be used when you
22 develop those assumptions.

23 And then you can get ready, prepared to tell the
24 proper story, you know, to testify your compilation
25 projections.

1 So, I think there is kind of, to some extent, a
2 planning approach.

3 The other one is I want to add one more thing
4 here, household size, there was some question about
5 household size. You know, household size is derived by
6 looking at housing number and population, right, so it's
7 simple, straight forward.

8 And you already heard about demographic process.
9 The population is aging and we are not going to have the
10 children we used to have, as recently we're supposed to
11 have household size as the past, or in the future.

12 But, actually, the SCAG region is interesting,
13 household size went up from 1980. 1980, you know, let
14 me give you a number here. This is household size, so
15 regional population divided by household. In 1980 it
16 was 2.73, and then in 1990 it was 2.9. It jumped. At
17 that point we added 3 million people in that kind of
18 period. Of course, we didn't put much in housing in
19 comparable to that population growth.

20 And 2000 we increased again, 3.01. And in 2010,
21 3.03. Now, the pattern is very stable, however, you
22 remember that between 2007 and 2010 we experienced great
23 recession. We lost 800,000 jobs as a result, and we
24 also has less immigrants over there.

25 So, we have more population, still, because of

1 that we have 3.03. And we do not see, you know, the
2 lower household size. And, however, in our projection
3 still we are optimistic and we assume that immigrants
4 will get assimilated and they will have less family
5 member and then, hopefully, they'll go down in the
6 future.

7 But, you know, of course, college is important.
8 We need to make affordable housing available. Also,
9 many college issues or colleges should be -- you know,
10 are there to be in line with that kind of demographic
11 pattern we're going to see in the future.

12 MR. HAVEMAN: Okay. Well, thank you very much,
13 gentlemen. Certainly a very informative discussion,
14 certainly for me, and I'm guessing for the Energy
15 Commission as well, so thank you very much for your time
16 and your comments.

17 MR. KVALEC: Do we have any public comments
18 that folks want to make for the record.

19 Well, in closing I'll just say that we, the
20 staff, want to continue this discussion with some of
21 these economic and demographic experts in a more
22 informal manner because this is, obviously, such a
23 critical part of the analysis that we do here.

24 Also, these issues will come up again as we
25 develop and present our demographic forecast, which is

