

DOCKETED

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Project Title:	General/Scope
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Document Title:	Learning from Europe's green investment
Description:	Email from Walter Horsting for the 10.20.2015 Draft IEPR Workshop
Filer:	Raquel Kravitz
Organization:	Walter Horsting
Submitter Role:	Public
Submission Date:	10/27/2015 3:03:14 PM
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Kravitz, Raquel@Energy

From: Barker, Kevin@Energy
Sent: Tuesday, October 27, 2015 2:58 PM
To: Raitt, Heather@Energy; Kravitz, Raquel@Energy
Subject: FW: Learning from Europe's green investments
Attachments: image001.jpg

Can you make sure these are docketed in the IEPR?

Thanks,

Kevin

From: Weisenmiller, Robert@Energy
Sent: Sunday, October 25, 2015 3:08 PM
To: Walter Horsting
Cc: Michael Picker; Barker, Kevin@Energy
Subject: Re: Learning from Europe's green investments

I will docket these in the current iepr. Bob

Sent from my iPhone

On Oct 25, 2015, at 12:37 PM, Walter Horsting <visionar@comcast.net> wrote:

Michael and Bob,

I am concerned about California's ignoring 4th generation nuclear for a base load for the grid. Recent results are coming in from Europe that should give pause to California's energy planning:

- Solar Duck; \$.10 KWh cost or higher to produce and excess sold to Nevada for \$.03KWh
- Europe's 1 Trillion Euro invested in 210 GWs of renewable energy producing on 38GWs <http://wattsupwiththat.com/2015/07/31/european-renewable-energy-performance-for-2014-fall-far-short-of-claims/>
- Latest reports show \$5 Trillion in planned Wind for Europe <http://stopthesethings.com/2015/10/23/europes-colossal-energy-disaster-e5-7-trillion-completely-wasted-on-wind-power-wishes/>
 - At the 24:20 mark Weimann presents the costs of eliminating 1 tonne of CO2 emissions for a variety of sources: for a coal power plant 1 ton reduction of CO2 costs only 8 euros, for retrofitting a car it costs 100 euros per ton, for onshore wind 150 euros, offshore wind 320 euros and solar 400 euros a ton. This does not include the grid costs. Clearly some CO2 reduction measures make little economic sense.
 - Next Weimann shows why it is madness to try to replace 18 nuclear power plants (total output 20 GW) with "extremely volatile" wind energy. He says there's no chance of accomplishing this feat without storage technology, which is still nowhere in sight; .Some

437 pump storage facilities would need to be built to ensure the supply of 18 nuclear power plants – an impossible task he says. He calls stopping nuclear energy and coal energy at the same time a pipe dream.

- At the end (38:00) he hands in his final assessment. Germany's Energiewende:
 - – “Is very expensive”
 - – “Is counter-productive”
 - – “Has had no effect on climate”
 - – “Disturbs in the decommissioning of nuclear power”
- EROEI doesn't support business case for renewable energy with storage
<http://www.forbes.com/sites/jamesconca/2015/02/11/eroi-a-tool-to-predict-the-best-energy-mix/>
- German Green Teck award: Dual Fuel Reactor is 100 times EROEI than renewable energy
<http://www.the-weinberg-foundation.org/2013/07/12/germanys-inconvenient-truth-a-green-group-squirms-over-the-publics-love-a-molten-salt-reactor/>

If I had a magic wand, I would invest \$600 Million into repairing SONGS to get its 2.4 GWs of \$.04 KWh energy back online.

I would invest the \$1-3 Billion a year into taking Dr. Edward Teller's advanced Molten Salt Reactor to production and start building emission free 24/7 nuclear energy with a goal for \$.025 KWh energy and build a true emission free export market for energy and desalination.

Thanks as always for the access,

Walter Horsting, Principal



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<An Advanced Molten Salt Reactor ORNL 2004.pdf>

<EnergySourceSafety.png>