

# DOCKET

06-IEP-1 / 03-RPS-1078

DATE Jul 6 2006

RECD. Jul 10 2006



## Department of Water and Power City of Los Angeles



## Green Path North Transmission Project

*July 6, 2006*

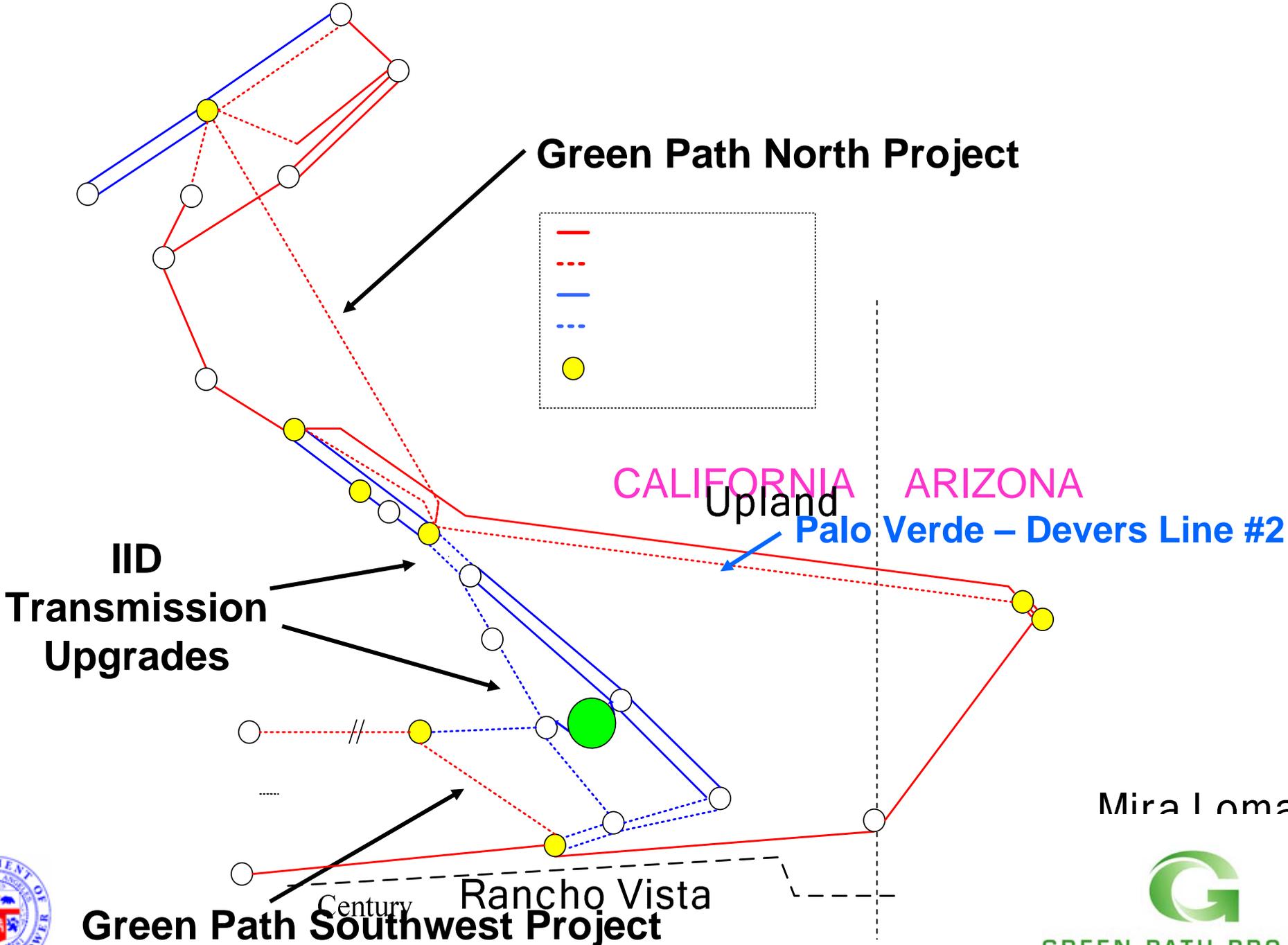
## **Green Path Project**

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- **Consists of three components: Green Path North Transmission Project, Green Path Internal IID Upgrade, and Green Path Southwest Transmission Project**
- **They are coordinated projects under Green Path, but they are distinct projects**
- **They are to enable the development of and access to the potential 2000 MW Imperial Valley geothermal resource**
- **LADWP has interest and participation only on the Green Path North Transmission Project**



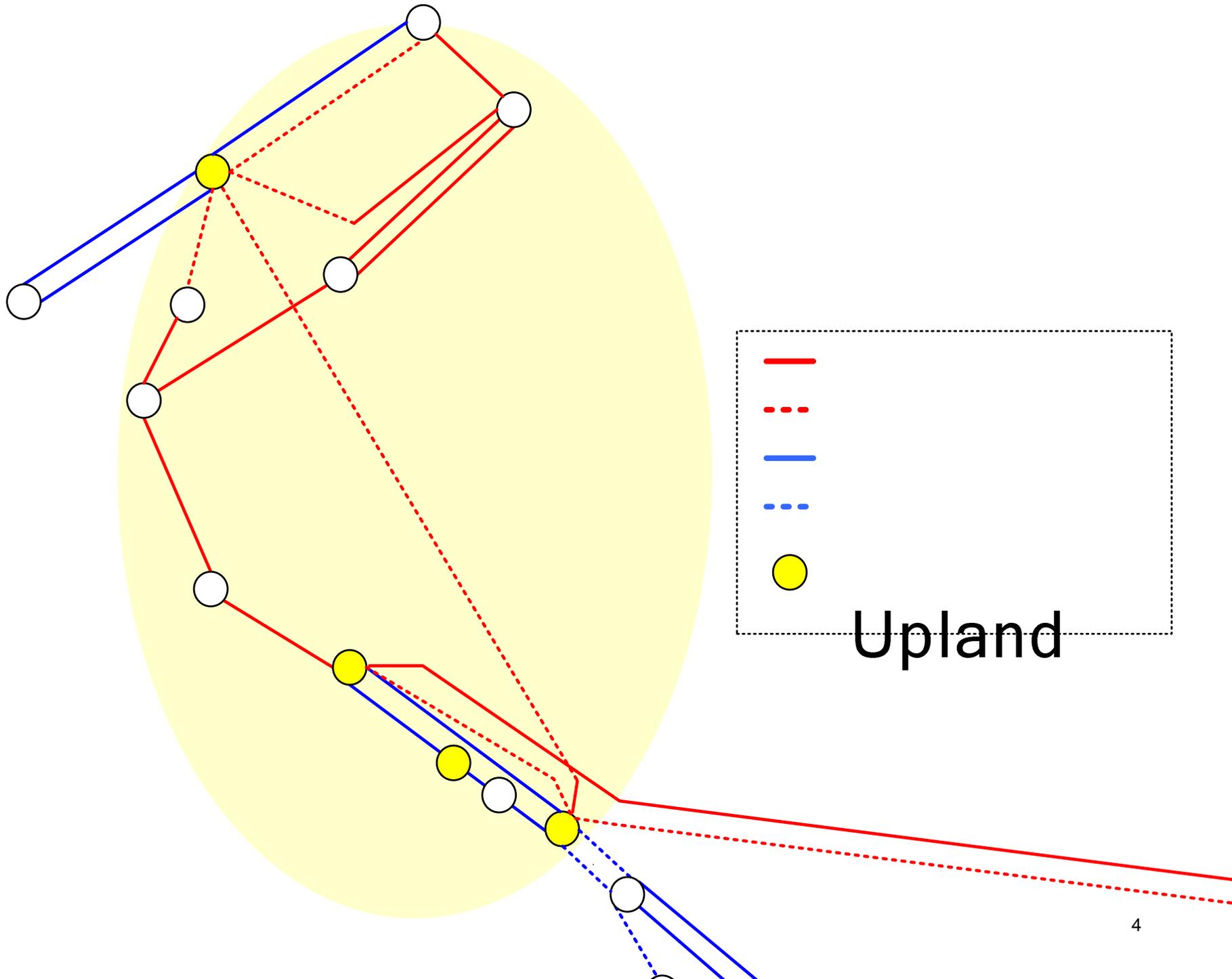
# Green Path Project



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# Green Path North Project



## Green Path North Project Information

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- **500 kV, 100 mile line from a new Devers area to a LADWP transmission system.**
- **Project includes voltage upgrade of about 40 miles of Victorville – Century 287 kV line 1**
- **Additional transmission expansion to IID system**
- **Project will provide access to geothermal resources in the Imperial Valley**
- **Expected project rating at 1000 - 1600 MW**
- **Ownership: LADWP 80% and others 20%**
- **Projects provides substantial system reliability improvement to the WECC Grid**
- **Project expected to be in-service November 2010**
- **Total Project cost: approximately \$350 million**
- **WECC Rating Studies is underway (has received Phase 1 rating)**
- **Environmental studies initiated and some surveys completed**
- **Preliminary design and site selection underway.**



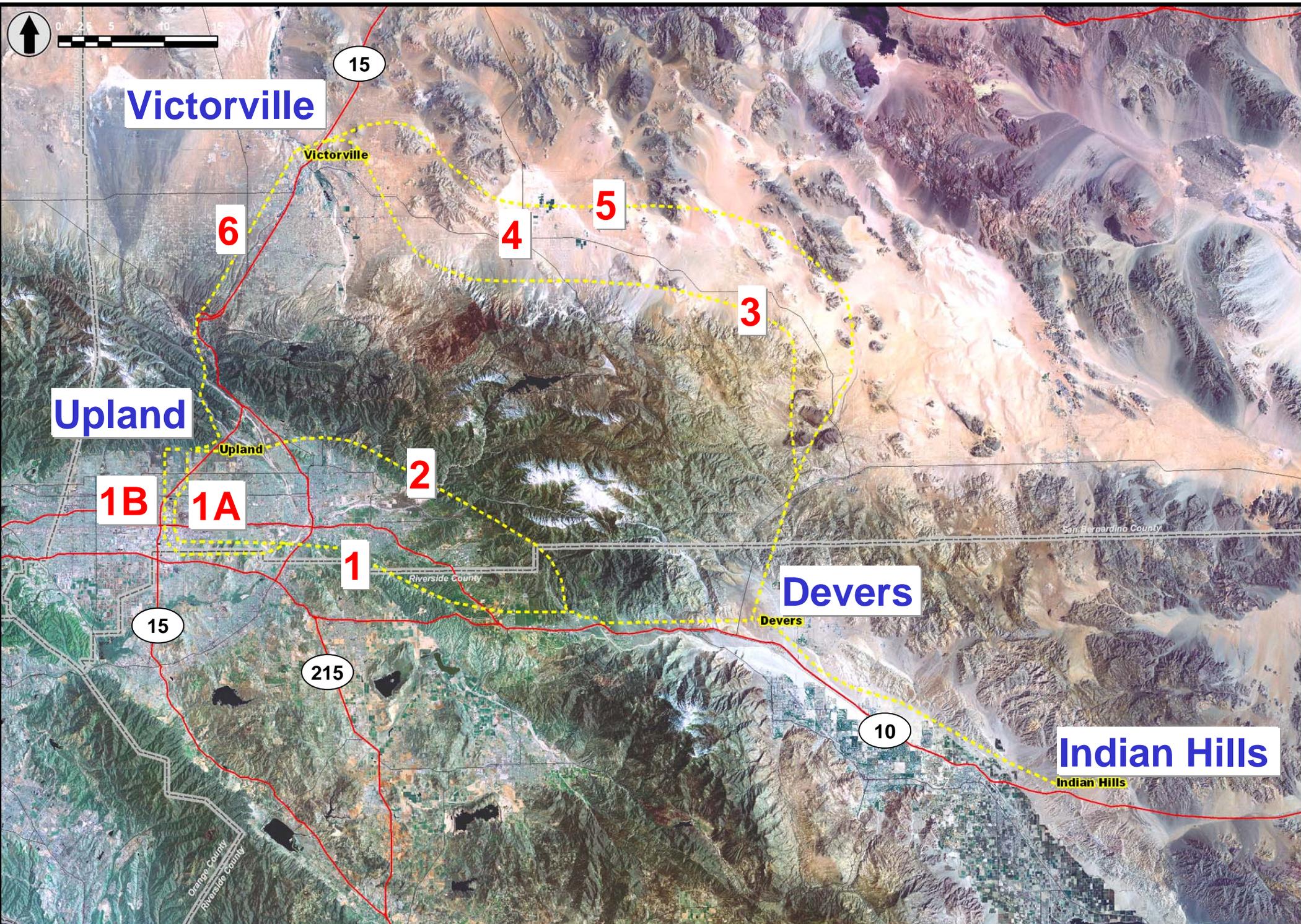
## Green Path North Project Key Issues

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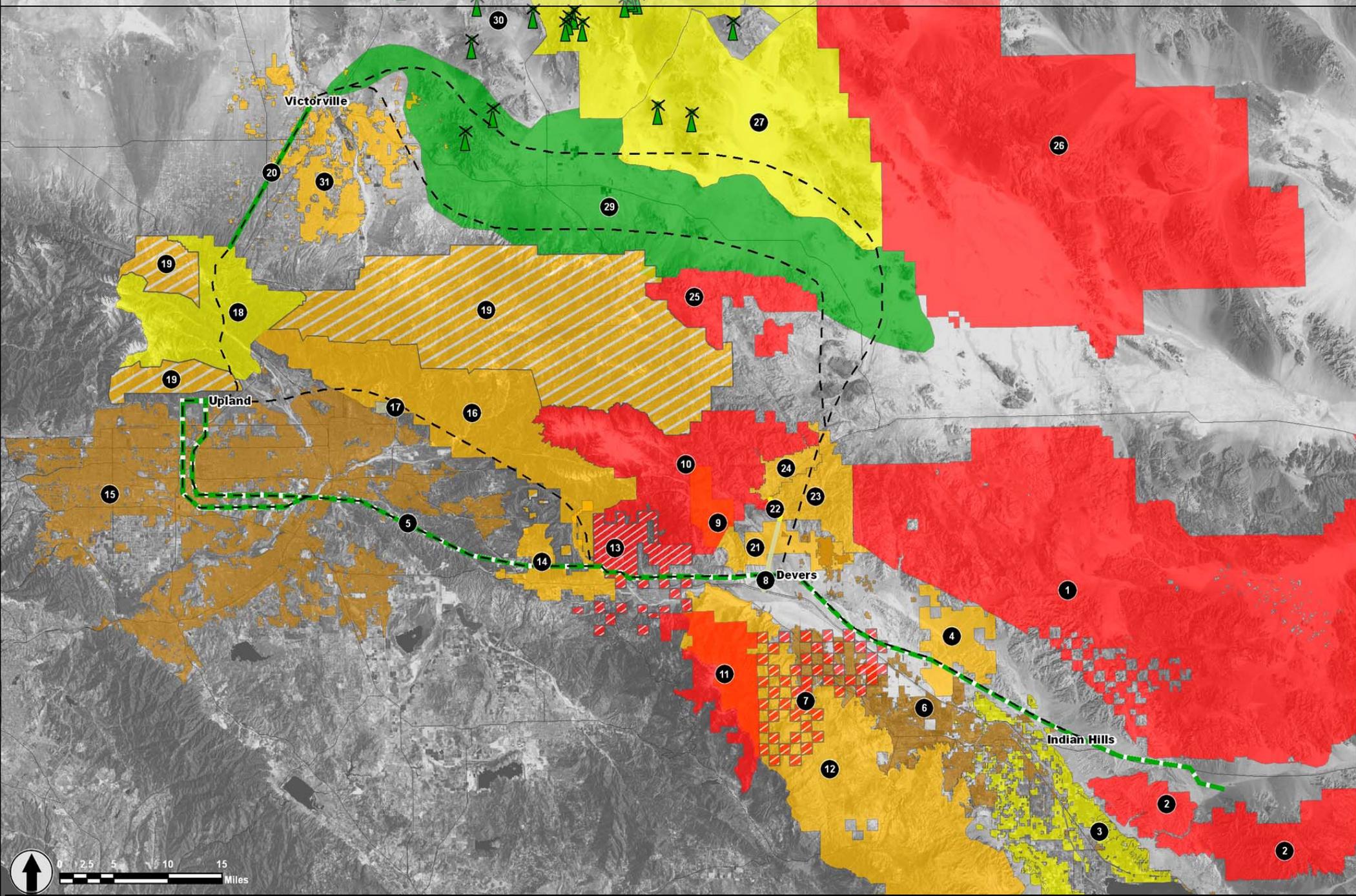
- **Transmission Routing: several alternatives considered for feasibility and environmental studies**
- **Devers vs. Indian Hills Project Termination: options considered depending on LADWP/SCE DPV2 Project issues, and IID's right-of-way considerations east of Devers**
- **Upland Project Termination: seismic issues, and CAISO interconnection considerations**
- **WECC Rating Studies: 1000 to 1600 MW rating to meet participants needs, including Citizens' needs for incorporating its interest into the CAISO system**
- **Project Participation: participation level, capacity allocation, and development cost sharing considerations, including consideration for SCPPA participation**
- **Power Delivery: participants power deliveries beyond Devers/Indian Hills and Upland termination points**



# Alternative Configuration Study Area – Original Plan



# Alternative Configuration Study Area Environmental Issues



- |  |  |   |   |   |
|--|--|---|---|---|
|  Exclusionary             |  Very Significant |  Potentially Significant |  Low         |  Potential Opportunity |
|  Potentially Exclusionary |  Significant      |  Moderate                |  Opportunity |  Wind Turbine Project  |

# Preliminary Project Schedule and Proposed Project Development Work

Activity	Duration	2006	2007	2008	2009	2010
<b>DEVELOPMENT WORK</b>	<b>24 Months</b>	[Blue bar spanning 2006 and 2007]				
- System Planning Studies	24 Months	[Green bar spanning 2006 and 2007]				
- Preliminary Transmission Design and Routing Studies	12 Months	[Green bar in 2006]				
- Preliminary Station Design and Site Studies	12 Months	[Green bar in 2006]				
- Environmental Studies	24 Months	[Green bar spanning 2006 and 2007]				
- Contract Development	12 Months		[Green bar in 2007]			
<b>DETAILED DESIGN</b>	<b>6 Months</b>			[Blue bar in 2008]		
<b>PROCUREMENT</b>	<b>18 Months</b>			[Blue bar spanning 2008 and 2009]		
<b>CONSTRUCTION</b>	<b>30 Months</b>			[Blue bar spanning 2008, 2009, and 2010]		
<b>COMMISSIONING</b>	<b>6 Months</b>					[Blue bar in 2010]
<b>TOTAL PROJECT SCHEDULE</b>	<b>60 Months</b>	[Blue bar spanning 2006, 2007, 2008, 2009, and 2010]				



## Next Steps

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- **Continue with initial environmental work and consultations with permitting agencies to identify environmental issues and alternative routings**
- **Continue with system studies to meet regional planning and obtain require project rating from Western Electricity Coordinating Council**
- **Continue with preliminary engineering and design work for the proposed substations and transmission line**
- **Initiate an RFP for outside services for transmission development support**
- **Develop and obtain approval on participation agreement for Green Path North Project**

