



California ISO
Shaping a Renewed Future

Decision on the 2010/2011 ISO Transmission Plan

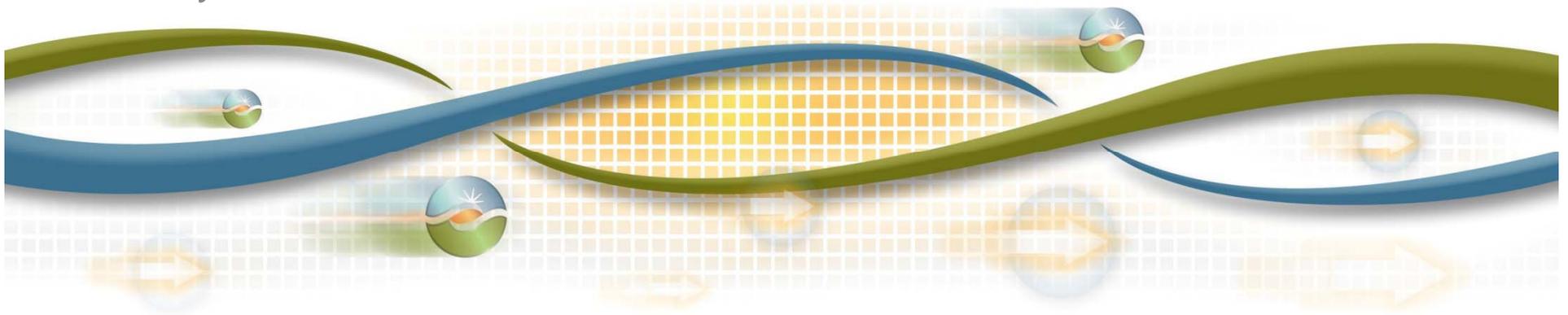
Neil Millar

Executive Director, Infrastructure Development

Board of Governors Meeting

General Session

May 18-19, 2011



Approving the plan means approving determinations and recommendations contained in the plan.

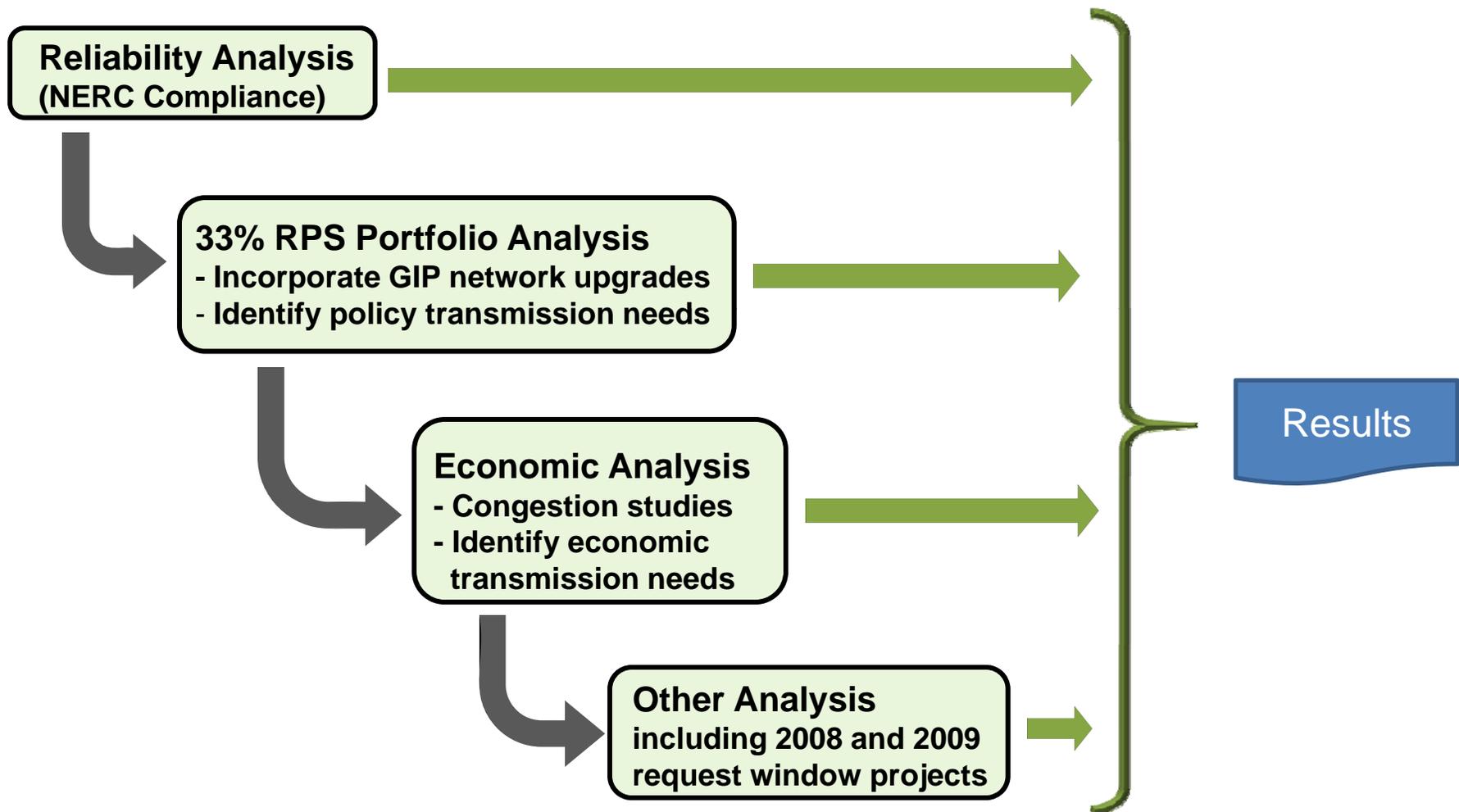
- Key findings for the 2010/2011 ISO Transmission Plan:
 - 4 new transmission reliability projects over \$50 million each;
 - 1 new policy-driven transmission upgrade element;
 - No additional need for major new policy or economic-driven transmission at this time.



This is the first transmission plan developed under the revised transmission planning process.

- Enhanced collaboration - statewide conceptual transmission plan;
- New “policy-driven” category of transmission - state and federal public policy;
- Greater opportunity for independent transmission developers – compete to build certain elements;
- More opportunities - stakeholder participation and input.

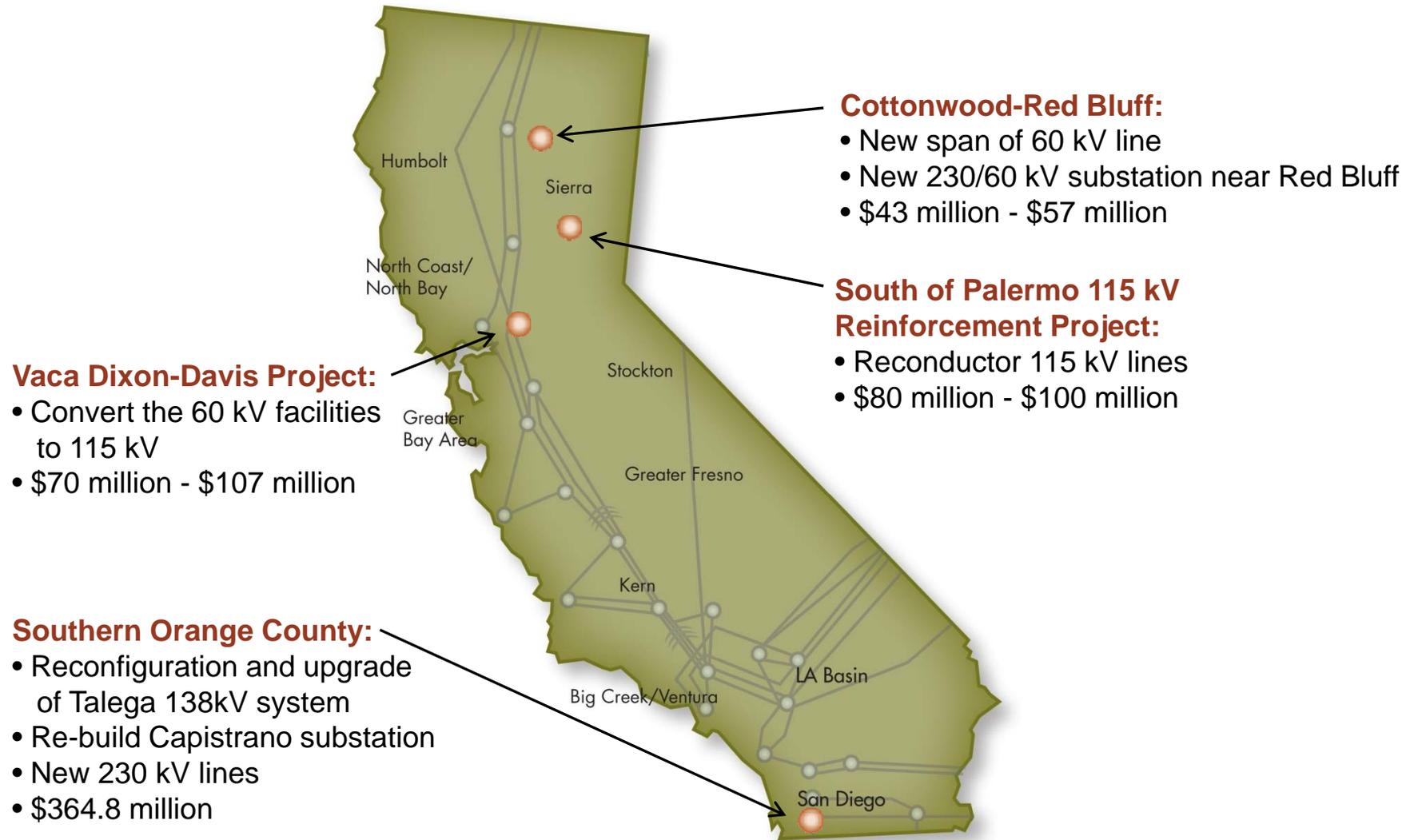
Development of 2010/2011 Annual Transmission Plan



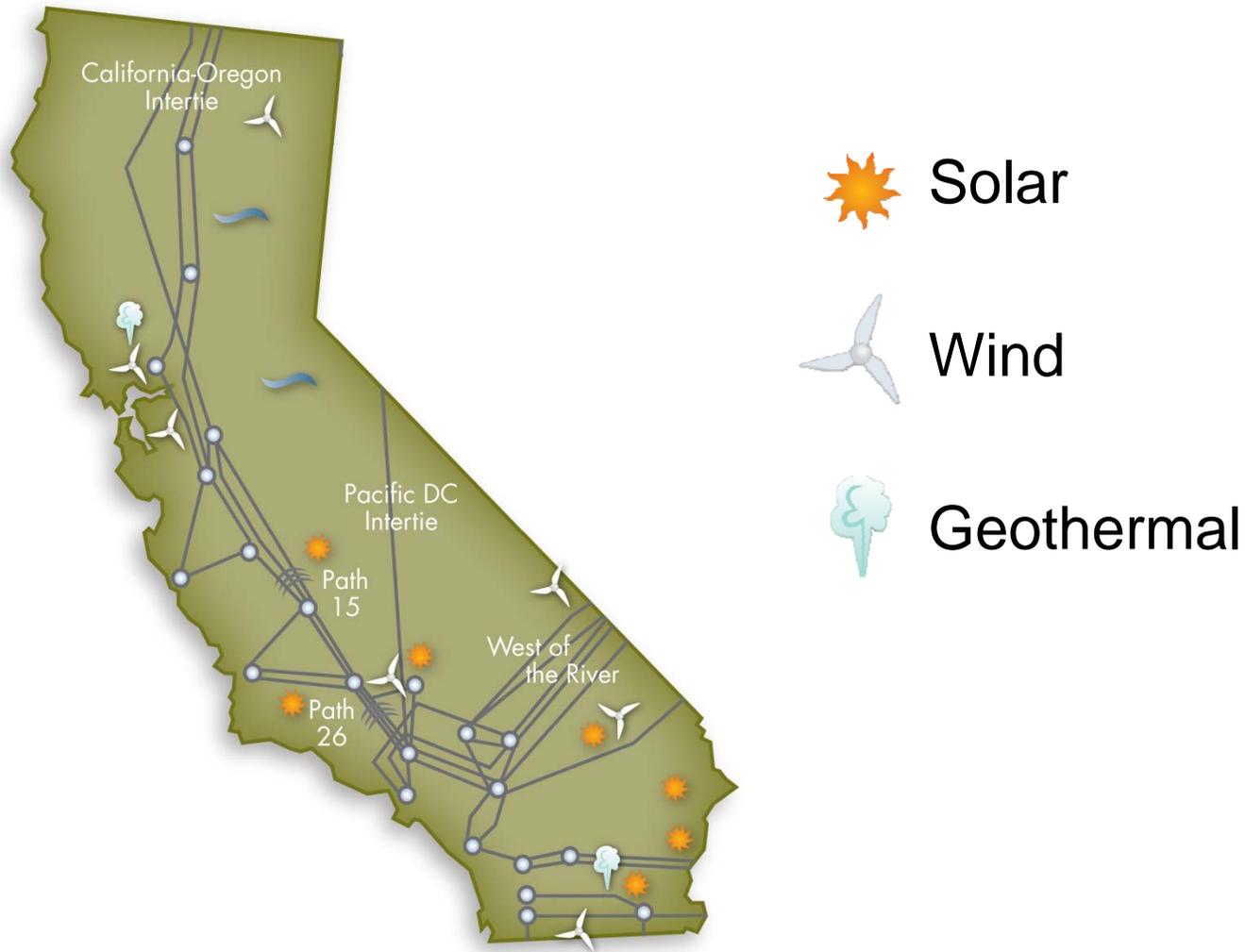
Identified reliability projects by service territory:

Pacific Gas & Electric	23	\$683M
Southern California Edison Co.	0	\$0M
San Diego Gas & Electric Co.	9	\$515M
Total	32	\$1,198M

Reliability projects over \$50 million each



Policy driven analysis was based on renewable energy zones and resources.



Transmission underway will meet 33% RPS in 2020.



Transmission upgrade	Approval status		Renewable Potential		Online
	ISO	CPUC	MW	TWh/Yr	
1 Carrizo-Midway	Pending LGIA	Not yet filed	900	2.1	2012
2 Sunrise Powerlink	Approved	Approved	1,700	4.1	2012
3 Eldorado-Ivanpah	LGIA	Approved	1,400	3.6	2013
4 Pisgah-Lugo	LGIA	Not yet filed**	1,750	4.1	2017
5 Valley-Colorado River	Approved	Approved*	4,700	8.6	2013
6 West of Devers	LGIA	Not yet filed			2017
7 Tehachapi	Approved	Approved	4,500	15.2	2015
8 Tehachapi Wind/Solar Diversity	N/A	N/A	1,000	3.0	2015
9 Cool Water-Lugo	Pending LGIA	Not yet filed	600	1.4	2018
10 South Contra Costa	LGIA	Not yet filed	300	0.8	2015
11 Borden-Gregg	LGIA	Not yet filed	800	2.0	2015
12 Path 42	Pending approval	Not yet filed	1,400	3.5	2015
Other-Outside of ISO Grid	N/A	N/A	3,300	8.4	
Total			22,350	56.8	
TWh/year needed in ISO area to meet 33% goal:				44	

Stakeholder Feedback

- Support for individual reliability and policy projects;
- Generation modeling assumptions;
- Treatment of LGIP network upgrades;
- Treatment of 2008 and 2009 request window submissions
- Role of independent transmission companies
- Consistent treatment of load shedding for extreme contingency events.

Management recommends the Board approve the 2010/2011 ISO transmission plan.

- Meets the reliability needs of the ISO controlled grid;
- Meets the state's 33% RPS goal;
- Demonstrates no additional need for major new policy or economic-driven transmission at this time;
- As conditions change, transmission needs will be evaluated in subsequent planning cycles.