

**California Energy Commission
IEPR Lead Commissioner
Workshop**

**California and Western States
Transmission Planning and
Permitting Issues**

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**Tony Braun
Braun Blasing McLaughlin & Smith, P.C.
Counsel to the California Municipal
Utilities Association**

Takeaways

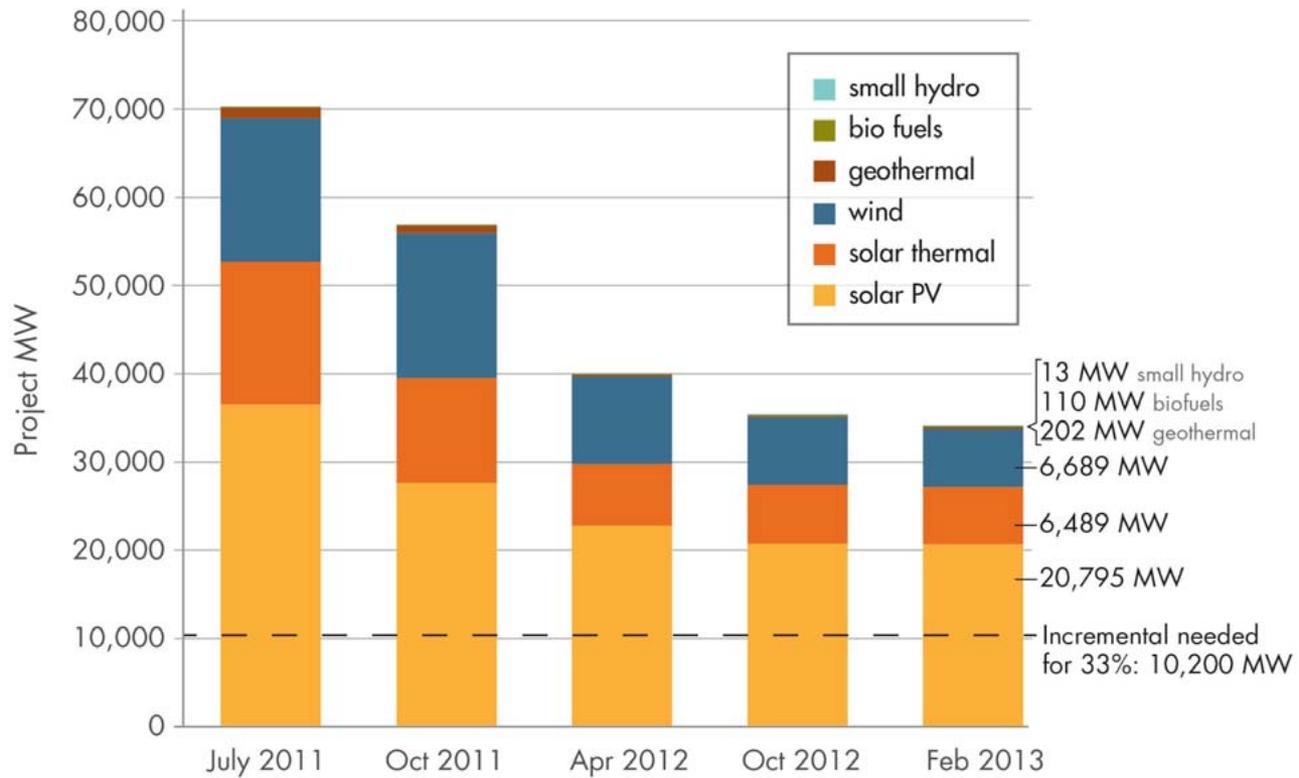
- Scenario Development and the Transmission Planning Process (TPP) Have Become Better Integrated
- There is Work to be Done
- Permitting of Generation is Not a Determinative Input into the TPP
- More Visibility Into Procurement Milestones (PPAs) Would Help the Most
- Aligning Procurement, Resource Adequacy, and TPP Will Do the Most to Ensure the Environmental Footprint of Transmission is Correctly Sized



Projects Permitted in 2010 - 2012

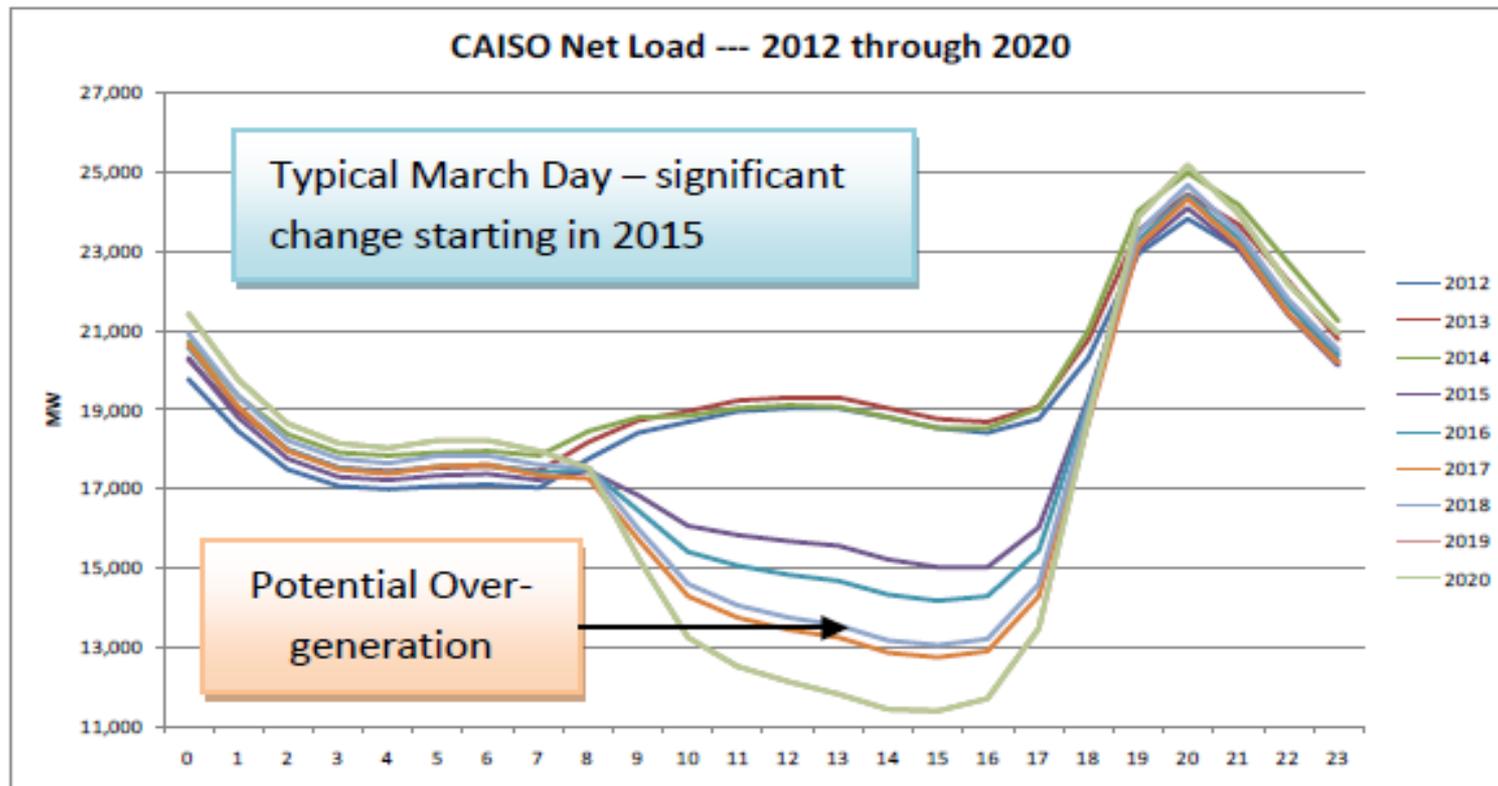
County	Bio	Co-gen*	Geothermal	PV <20MW	PV >20MW	Solar Thermal	PV/Solar Thermal	Wind	Total
Alameda				3					3
Contra Costa								78	78
Fresno				54	147				201
Imperial			208	14	3,054			315	3,591
Kern	44			373	3,036	250		4,413	8,116
Kings				20	125				145
Los Angeles		85		44	475				604
Merced					150				150
Monterey				2					2
Riverside					725	1,734		5	2,464
Sacramento				2					2
Santa Barbara				1				56	57
San Benito				2	399				401
San Bernardino				77	185	770	633		1,665
San Diego					45				45
San Luis Obispo					800				800
Shasta								102	102
Solano								391	391
Stanislaus				1	190				191
Tulare				60	50				110
Yolo				1					1
Total	44	85	208	654	9,381	2,754	633	5,360	19,119 MW

* Cogeneration refers to a pipeline bio-methane facility that has applied for RPS precertification.



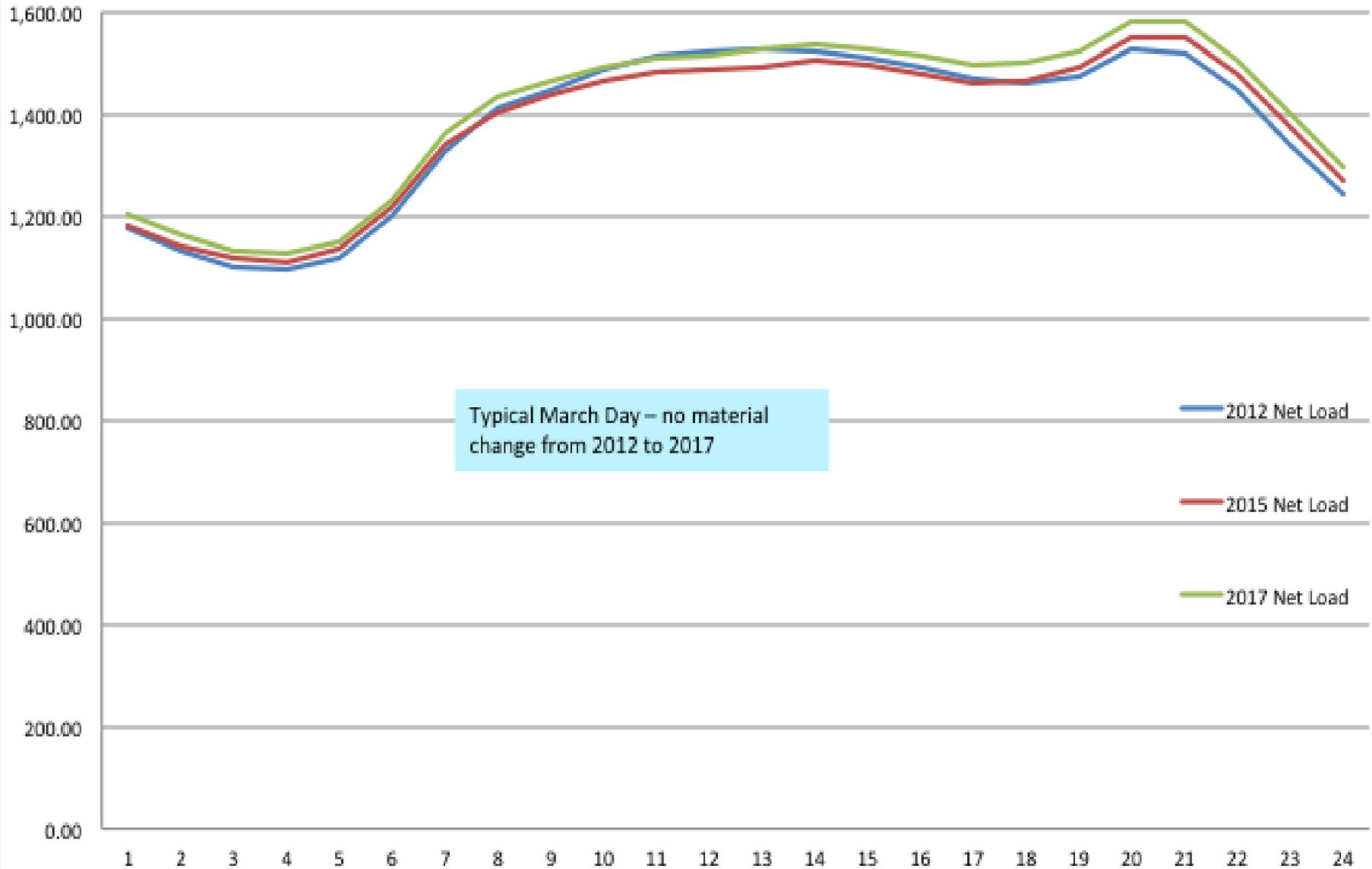


Energy Generation: Is it reliable?



Source: *Comprehensive Forward Capacity Procurement Framework*, CAISO, February 26, 2013

2012,2015,2017 - Sum of POU - Net Load (MW)



Conclusions

- It is All About Procurement Decisions
 - Drives Ultimate Approval of Transmission Through the TPP
 - Biggest Impact on What Actually Gets Built
 - Drives Operational Issues Which Affect Future Transmission Development
- Regulatory Focus Should Be on Visibility and Decisions in the Procurement Process