





2012 Summer Readiness

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CEC statewide planning studies and ISO operational studies essentially agree.

- On a statewide and ISO system basis, supply is adequate to cover a broad range of potential peak demand conditions and contingencies.
- The absence of the San Onofre nuclear plant does not create system-wide issues but does create local reliability issues because of transmission constraints that limit imports into the Los Angeles Basin and San Diego areas.

The ISO's longer-term studies start with the CEC demand forecast.

- Every year the ISO publishes studies looking out 10 years and five years, as well as seasonal studies throughout the year to determine reliability needs and challenges.
- The ISO must comply with federal reliability standards and more rigorous California supplemental standards by being constantly prepared for the loss of a single generator and various combinations of transmission system outages.
- Study work started in 2011 is being augmented in the 2012-2013 transmission plan to address possible long-term outages of the San Onofre and Diablo Canyon nuclear power plants.

Reliability issues arise in the LA Basin and San Diego without the San Onofre nuclear power plant.

- Los Angeles Basin and San Diego areas must have local generation to serve all consumers
- The ISO already plans for the outage of one San Onofre generating unit
- ISO must plan for the major contingencies where San Diego loses eastern transmission and the largest generator



San Diego and the Los Angeles Basin are at risk of outages under required planning standards.

San Diego

Without both San Onofre units -

Import capability



Shortfall	= - 337
Load	-4,882
Largest generation outage	- 603
Import capability	+2,100
Total gen	+3,048

Los Angeles Basin

Without both San Onofre Units -

Total gen



Shortfall	= -240
Load	-19,931
Largest generation outage ***	- 498
Import capability **	+10,771
Total gen *	+9,418

Notes:

- * Installed capacity, some of which is not under contract.
- ** Transmission import capability is subject to change, as system conditions change from year to year.
- ***Largest generating unit outage after both San Onofre units are out of service .

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Restarting existing, permitted generation is essential.

San Diego

Without SONGS and with Huntington Beach 3 & 4 -

Import capability

Surplus	= 13
Load	- 4,882
Largest generation outage	- 603
Import capability	+ 2,450
Total gen	+ 3,048

Los Angeles Basin

Without SONGS and with Huntington Beach 3 & 4 –

Total gen



too	
Surplus*	= 212
Load	- 19,931
Largest generation outage	- 498
Import capability**	+10,771
Total gen*	+ 9, 870

Notes:

Conservation and demand response increase the margins.

^{*} Installed capacity, some of which is not under contract.

^{**} Transmission import capability is subject to change, as system conditions change from year to year.

^{***}Largest generating unit outage after both San Onofre units are out of service .

Energy conservation and demand response will increase the margin.

		Existing DR MWs
SCE	All demand response programs	1,700 MW
	Southern Orange County and South of Lugo	506 MW
SDG&E	All demand response programs	104 MW

- SCE and SDG&E proposals for additional MWs are awaiting Commission approval.
- The Commission has authorized \$10 million for the Flex Alert campaign, a mass media program that informs the general public on how to reduce their energy usage and alerts them to reduce when CAISO needs additional reductions.
- The education effort includes outreach to disadvantaged communities and foreign language speakers.
- In the event of an emergency, procedures include notification of the California Emergency Management Agency and affected utilities who manage local communication and urgent response processes.

Actions are underway to mitigate the risk of outages.

- Return Huntington Beach units 3 & 4 to service
- Accelerate Barre-Ellis transmission upgrade
- Complete Sunrise transmission line and related outage planning
- Fully fund Flex Alerts
- Fully utilize available demand response
- Seek additional military and public agency demand response
- Ensure that existing generation is well-maintained and available