

## DOCKETED

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# ONCE-THROUGH COOLING UPDATE

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*Statewide Advisory Committee*

**Presented by: Drew Bohan**

*Executive Director*

*California Energy Commission*

*May 8, 2018*



**CALIFORNIA**  
**ENERGY COMMISSION**



**California ISO**



# OTC Progress

No policy changes  
recommended

Reliability to be  
continually  
assessed







# OTC Compliance Achieved

Facility & Units	Net Qualifying Capacity (NQC, in MW)	Compliance Date	Retirement Date
Humboldt Bay 1, 2	135	Dec. 31, 2010	Retired Sept. 30, 2010
South Bay	296	Dec. 31, 2011	Retired Dec. 31, 2010
Potrero 3	206	Oct. 1, 2011	Retired Feb. 28, 2011
Huntington Beach 3, 4	452	Dec. 31, 2020	Retired Nov. 1, 2012
Contra Costa 6, 7	674	Dec. 31, 2017	Retired April 30, 2013
El Segundo 3	335	Dec. 31, 2015	Retired July 27, 2013
Haynes 5, 6	318	Dec. 31, 2013	Retired June 13, 2013
San Onofre 2, 3	2,246	Dec. 31, 2022	Retired June 7, 2013
Morro Bay 3, 4	650	Dec. 31, 2015	Retired Feb. 5, 2014
El Segundo 4	335	Dec. 31, 2015	Retired Dec. 31, 2015
Scattergood 3	497	Dec. 31, 2015	Retired Dec. 31, 2015
Pittsburg	1,159	Dec. 31, 2017	Operations ceased Dec. 31, 2016
Moss Landing 6, 7	1,509	Dec. 31, 2020	Retired Jan. 1, 2017
Encina 1	106	Dec. 31, 2017	Retired March 1, 2017
Mandalay 1, 2	430	Dec. 31, 2020	Retired Feb. 6, 2018

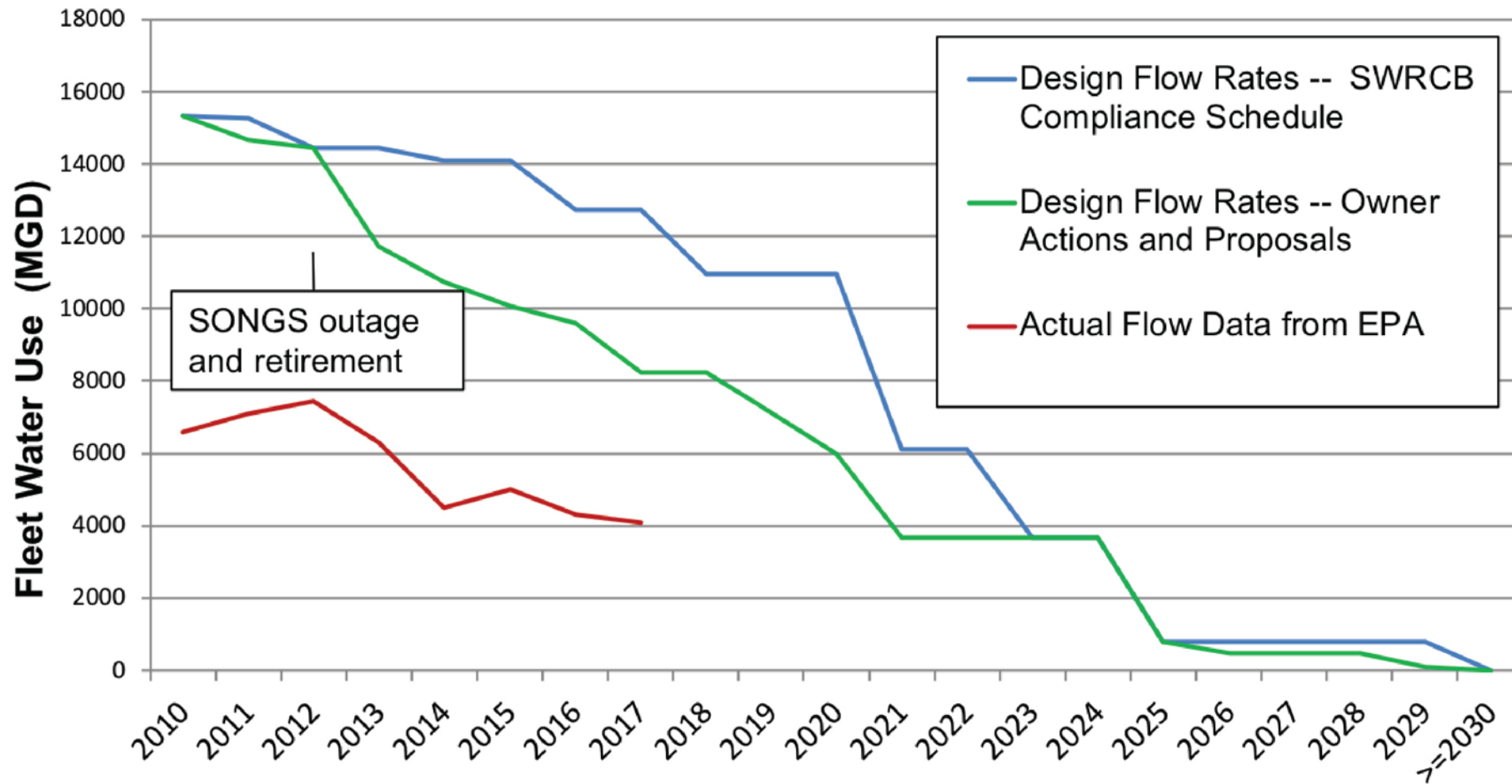


# OTC Remaining Compliance

Facility & Units	NQC	Compliance Date	Owner proposed Compliance Method
Alamitos 1, 2, 6	848	Dec. 31, 2020	Plans to retire on Dec. 31, 2019 to allow Alamitos to be repowered
Alamitos 3, 4, 5	1,163	Dec. 31, 2020	Retire units
Encina Units 2-5	844	Dec. 31, 2018	Retire units by compliance date
Harbor 5	229	Dec. 31, 2029	Plans to repower on Dec. 31, 2029
Haynes 1, 2	444	Dec. 31, 2029	Plans to repower on Dec. 31, 2025
Haynes 8	575	Dec. 31, 2029	Plans to repower on Dec. 31, 2028
Huntington Beach 1	215	Dec. 31, 2020	Plans to retire on Dec. 31, 2019
Huntington Beach 2	215	Dec. 31, 2020	Retire unit
Moss Landing 1, 2	1,020	Dec. 31, 2020	Track 2*
Ormond Beach 1, 2	1,516	Dec. 31, 2020	Retire Units
Redondo Beach 7	493	Dec. 31, 2020	Plans to retire on Oct. 1, 2019 to allow Huntington Beach to repower
Redondo Beach 5, 6, 8	848	Dec. 31, 2020	Retire units
Scattergood 1, 2	367	Dec. 31, 2024	Plans to repower by Dec. 31, 2024



# OTC Fleet Water Use







# Resources to Replace OTC

## Resources to replace SONGS and implement OTC:

- Preferred resources
- Transmission solutions
- Conventional generation







# Conclusions

- No change to compliance dates
- Authorized resources ensure grid reliability
- Agencies will continue to monitor, and perform additional analyses to ensure reliability
- Some compliance dates may need to be modified in the future

