

**DOCKETED**

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# Recent and Planned Natural Gas Generation Retirements

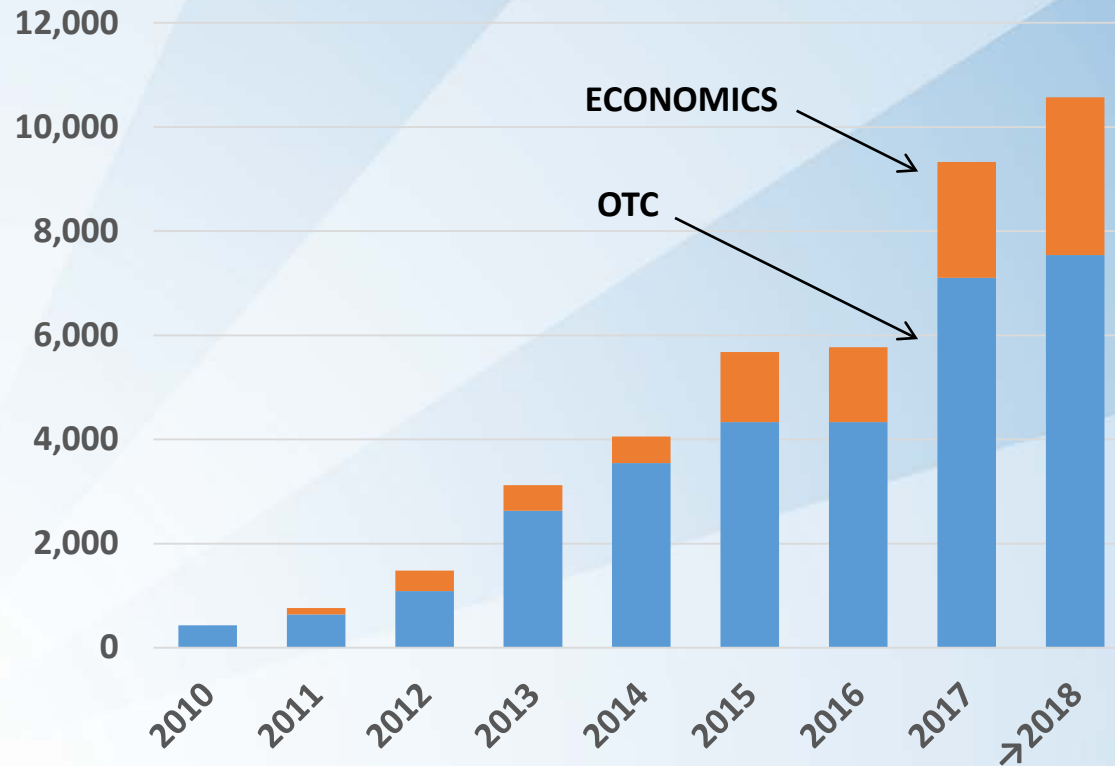
Commissioner Workshop for the  
2018 Integrated Energy Policy  
Report Update

Dave Vidaver, California Energy  
Commission



June 20, 2018  
California Energy Commission

# Natural Gas-Fired Generation Retirements to Date (Cumulative MW)



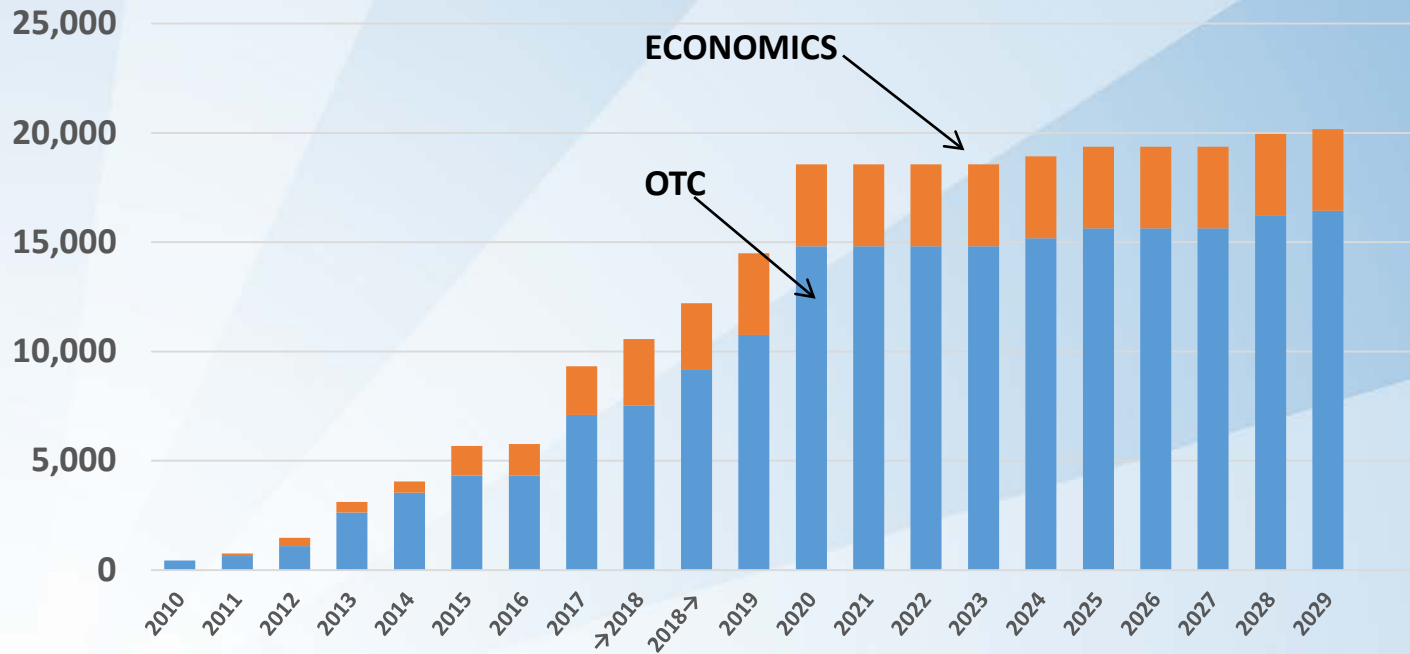


# Recent and Planned Natural Gas Generation Retirements - 2018 Activity

<b>Unit Name</b>	<b>Capacity (MW)</b>	<b>Retirement Reason</b>	<b>C.E.S. Score</b>
Mandalay 1, 2, 3	574 MW	OTC/Economic	89
Etiwanda 3, 4	666 MW	Economic	76
Ormond Beach 1 or 2*	806 MW	OTC	83

\* Ormond Beach is currently scheduled for a once-through cooling (OTC) retirement in 2020, but one or both of its units may retire earlier for economic reasons. The owner is currently in discussion with the CAISO and CPUC regarding its availability in 2019.

# Natural Gas-Fired Generation Retirements and Planned Retirements 2010 – 2029 (Cumulative MW)



# Retirements and Natural Gas Plant Types

	Retired		Planned		Total	
Type	Number	MW	Number	MW	Number	MW
OTC	13	7,542	9	8,438	22	15,980
CC/CT	13	2,495	4	1,173	17	3,668
Cogen	13	532	0	0	13	532
<b>Total</b>	<b>39</b>	<b>10,569</b>	<b>13</b>	<b>9,611</b>	<b>52</b>	<b>20,180</b>



# Retirements and Disadvantaged Communities

	Retired		Planned		Total	
CES Score	Number	MW	Number	MW	Number	MW
75+	17	4,556	2	1,841	19	6,397
60-74	5	2,097	2	1,068	7	3,165
0-59	11	2,067	6	3,305	17	5,372
N/A	6	1,849	3	3,397	9	5,246
<b>Total</b>	<b>39</b>	<b>10,569</b>	<b>13</b>	<b>9,611</b>	<b>52</b>	<b>20,180</b>





## Recent and Planned Natural Gas Generation Retirements Looking Ahead

- Retirement of natural gas generation units in disadvantaged communities and other areas will continue for both economic reasons and in order to meet OTC compliance deadlines.
- Retiring natural gas-fired generation capacity will be replaced to the greatest extent possible with preferred resources, including energy efficiency, demand response, renewable generation capacity, storage, and transmission system upgrades.
  - The electricity sector's contribution to criteria pollutant levels in disadvantaged communities will decrease.
- As the state strives to meet the RPS and GHG emission reduction goals, selected existing gas units will be important in the near term to meet local reliability and flexibility needs.
  - A plant's location in a disadvantaged community will be one of the factors taken into account when evaluating the costs and benefits of various natural gas units.