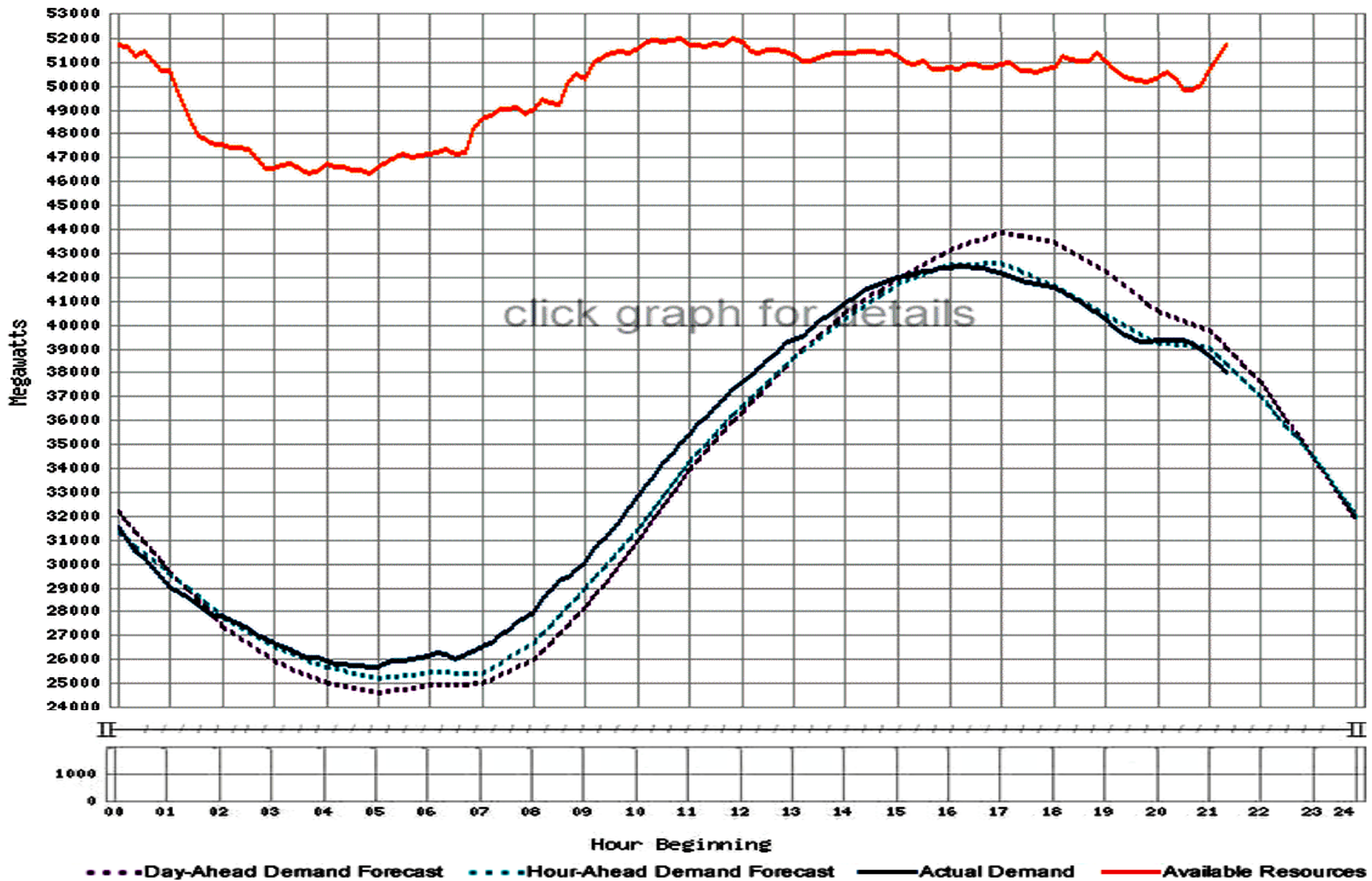


Marine Layer Data Services





Real time demand and forecast electric power (California)

<http://www.caiso.com/outlook/SystemStatus.html>

California Electric Load

Average	Average	Average Hourly Value		
Load	Price (2011)	Electric	2% Forecast	10% Forecast
<u>(GW)</u>	<u>(MW-hr)</u>	<u>Load</u>	<u>Error</u>	<u>Error Reduction</u>
28	\$36	\$1,008,000	\$20,160	\$2,016

Marine Layer Monitoring for Load Forecast improvement

Assumptions (conservative)

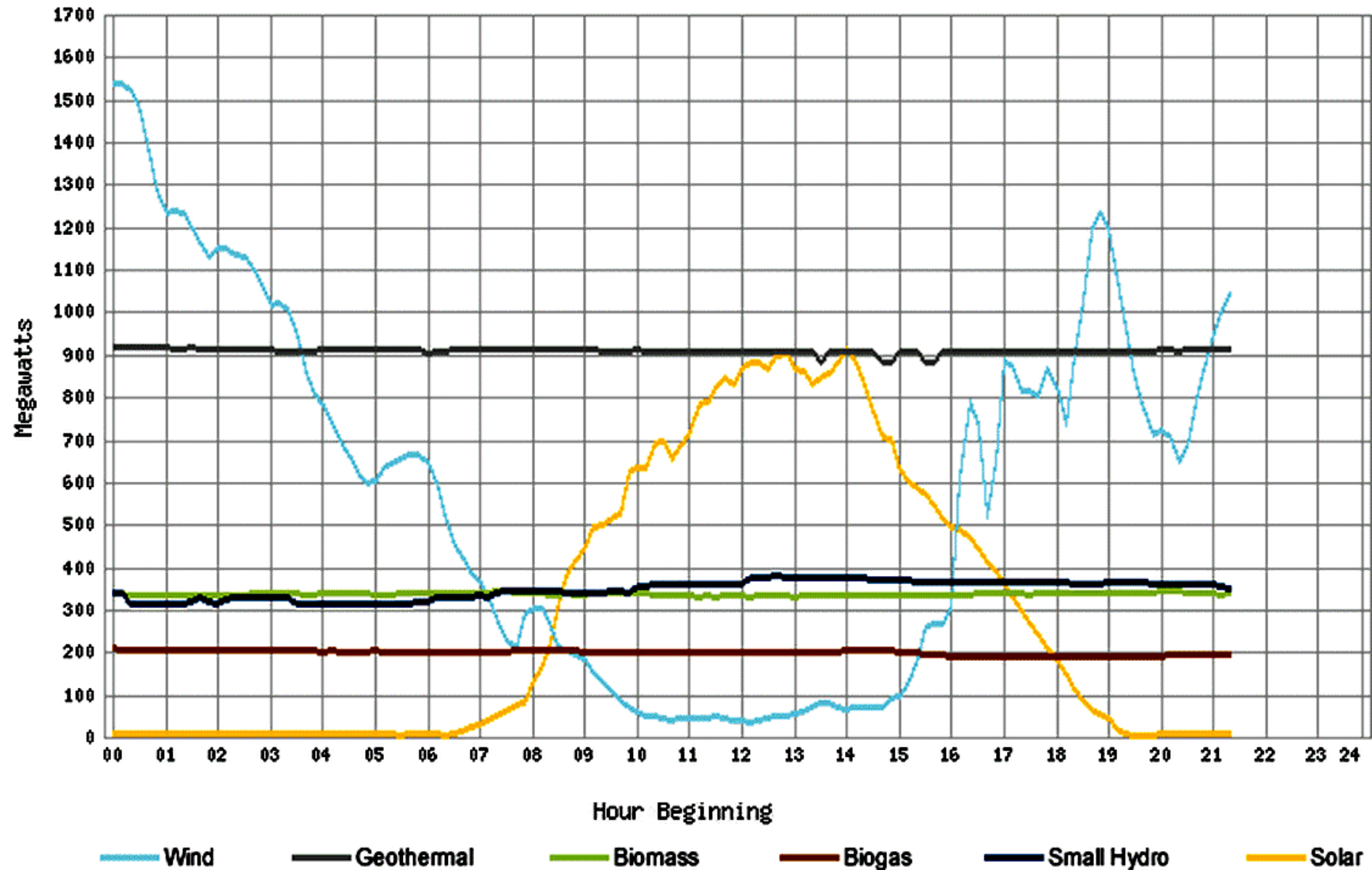
- 2% Electric Load Forecast Error
- 10% Forecast Error Reduction

Hourly Savings ~ \$2,000

Annual Savings ~ \$20 M

Wind Energy Data Services





Real time renewable electric power (California)
<http://www.caiso.com/outlook/SystemStatus.html>

California Wind Energy				
Average	Average	Average Hourly Value		
Production	Price	Wind	30% Forecast	1% Forecast
<u>(MW)</u>	<u>(MW-hr)</u>	<u>Energy</u>	<u>Error</u>	<u>Error Reduction</u>
500	\$200	\$100,000	\$30,000	\$3,000

Stability Monitoring for Wind Energy Forecast improvement

Assumptions (conservative)

- 30% Wind Energy Forecast Error
- 1% Forecast Error reduction

Hourly Savings ~ \$3,000

Annual Savings ~ \$20 M