



SOUTHERN CALIFORNIA
EDISON[®]

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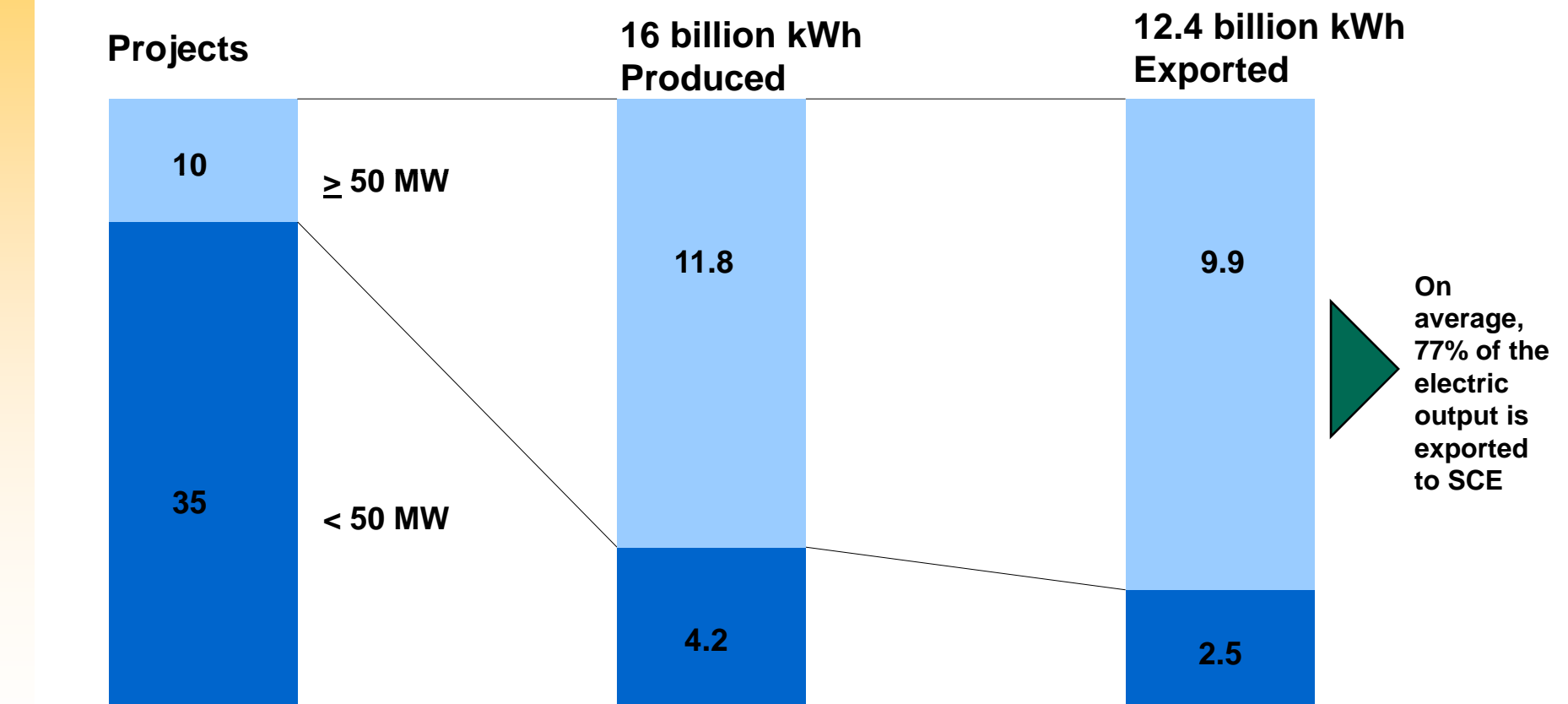
SCE Cogeneration Portfolio

CEC Workshop
April 13, 2009

SCE's Cogeneration Portfolio Varies Substantially by Efficiency and Operation

- 2,200 MW of CHP: sized from 32 kW to 416 MW
 - Industrial facilities, manufacturing plants, oil refineries
 - Small commercial buildings, schools, universities
 - Wastewater treatment plants
- Efficiency ranges from 34% to 89%
 - Half of projects operate at or below 60% efficiency
 - Four projects operate at or above 80% efficiency
- System sizing
 - One third of the projects serve their on-site load or have incidental export (less than 6%)
 - One third of the projects export more than 50% of their generation
- Types of CHP
 - Topping cycle (90% of reporting projects)
 - Digester, natural gas, coal fired
 - Bottoming cycle (10% of reporting projects)

CHP Production and Exports



Payments for Energy and Capacity

Technology	On-line dedicated firm and as-available capacity	Energy deliveries (GWh)	Payments (\$ in millions)	Average prices for energy and capacity (cents /kWh)
Biomass	174	1,256	\$112	8.92
Cogeneration	1,839	12,396	1,164	9.39
Geothermal	906	7,611	620	8.15
Small Hydro	94	196	12	6.12
Solar	354	667	108	16.19
Wind	1025	2,374	186	7.83
TOTAL	4392	24,500	2202	8.99

As published in the Edison International 2007 Financial & Statistical Report, at p. 25.

Efficiency is Not Limited by Size or Operation

Size	Efficiency	Industry	Operation	Export
1.3 MW	89%	Government	Heating and cooling for multiple buildings	Incidental 6% or less
48 MW	86%	Refinery	Refinery process	Serves all on-site load (occasional export)
.2 MW	80%	Government	Heating for pool, spa, and surrounding buildings	Incidental 2.5% or less
50 MW	43%	Food products	Manufacturing process	100% export
31 MW	43%	School	Heating for multiple buildings, kitchens, and pool	97% export
.55 MW	39%	Wastewater treatment plant	Sewage treatment	Serves all on-site load
16 MW	34%	Wastewater treatment plant	Wastewater treatment plant	Incidental - 2% or less