

# SDG&E Peak Demand Planning for the Future

Greg Katsapis  
SDG&E Electric Demand Forecasting

CEC IEPR Committee Workshop  
March 11, 2008

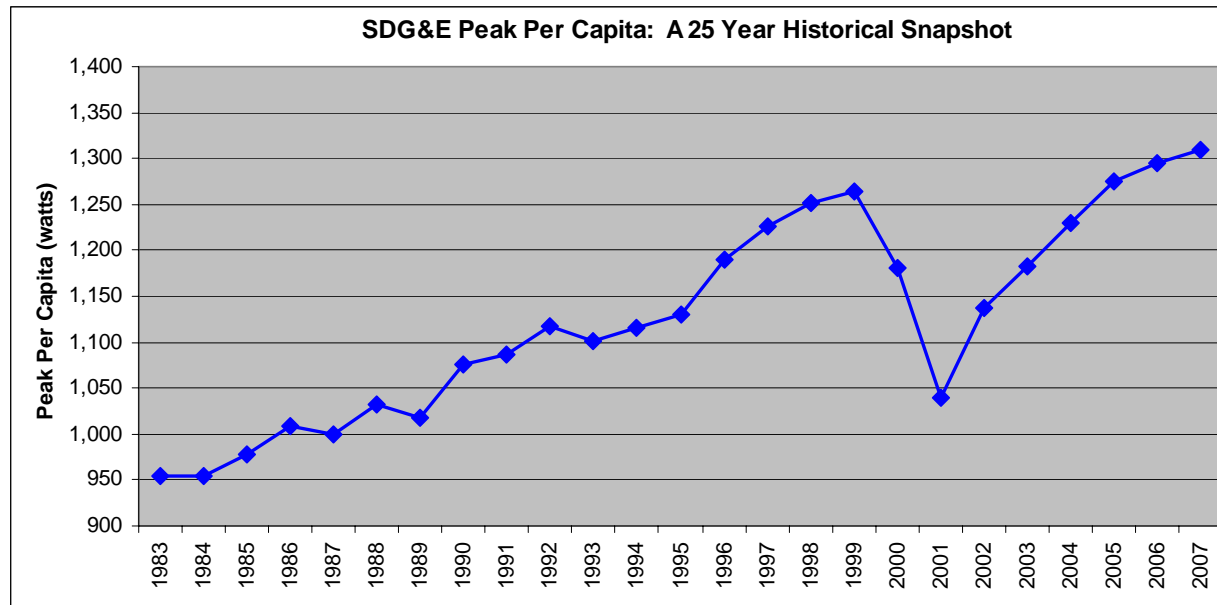
<b>DOCKET</b> <b>08-IEP-1</b>
----------------------------------

DATE	MAR 11 2008
------	-------------

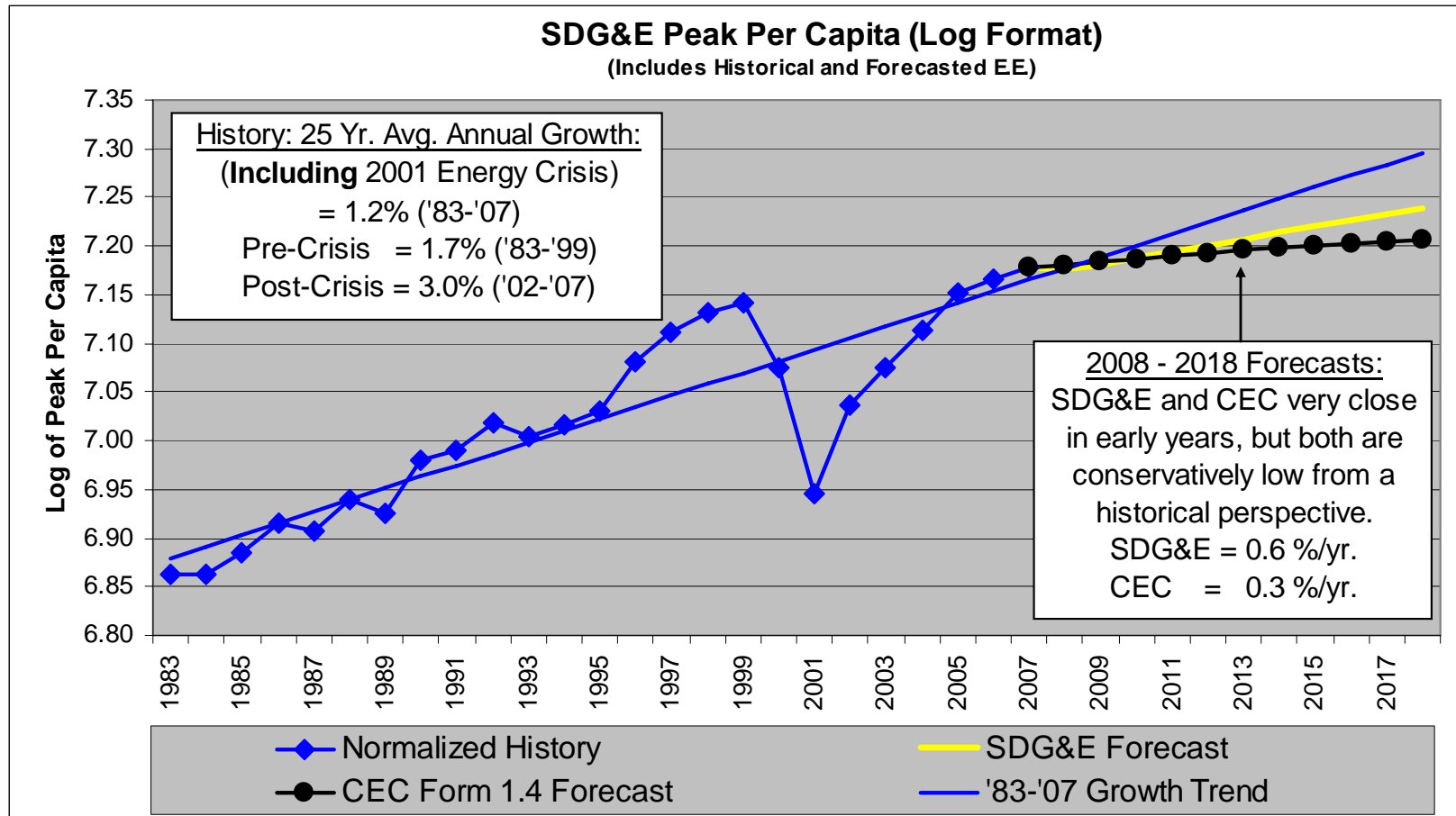
RECD.	MAR 13 2008
-------	-------------

# The Basic Needs

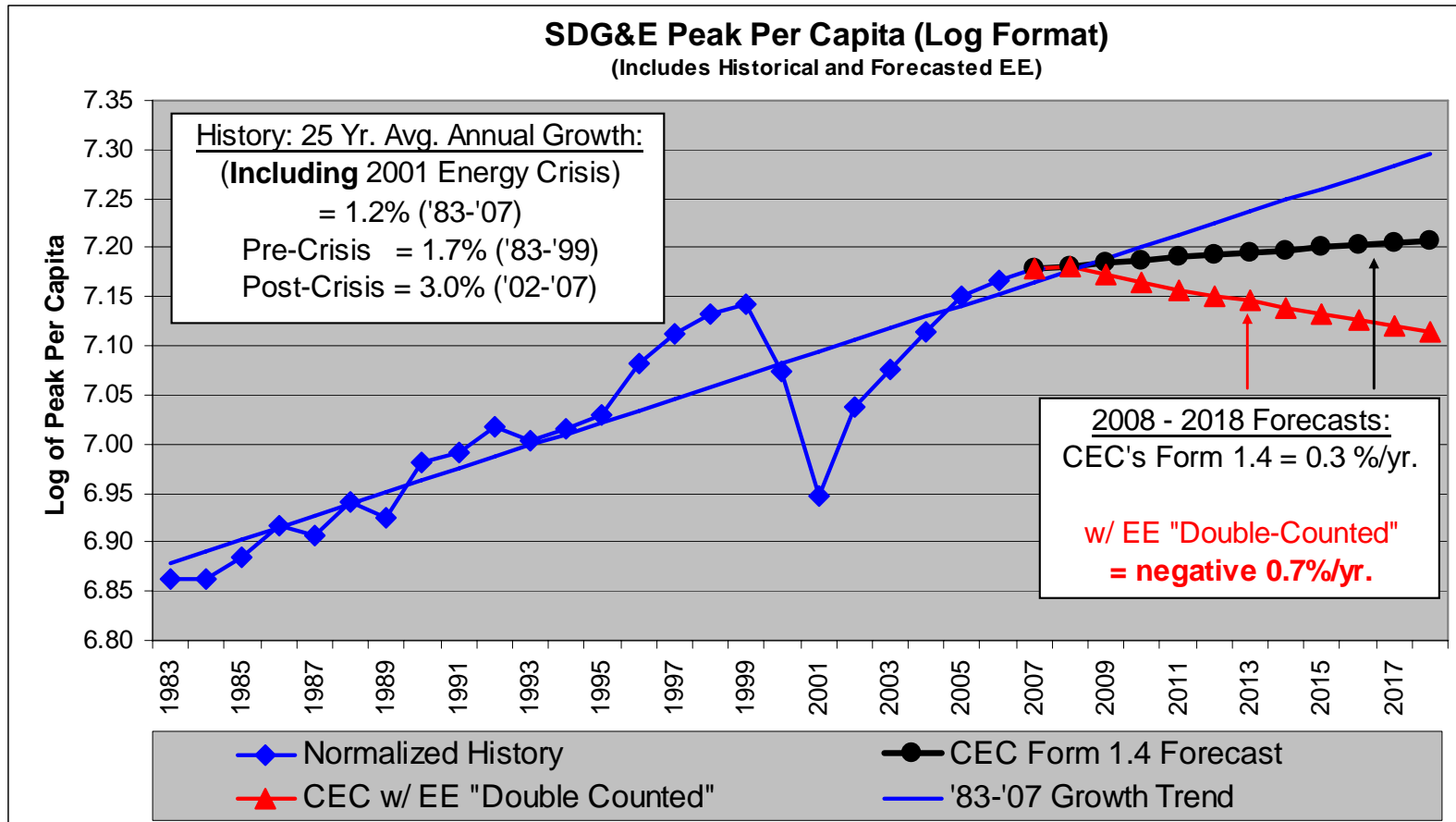
- Reasonable Forecasting Models
  - End-Use, Econometric, Blended/Both
- Reasonable & Consistent Forecast Assumptions
  - Econ/Demo, Prices, Efficiency, Saturations, Technology, Weather, etc.
- Reasonable Forecast Results
  - Common sense must prevail
- Example: Analyze/Forecast Peak-per-Capita



# A Quick Look at the Forecast Results



# “Double-Counting” Energy Efficiency: ... A Concern for Resource Planning



# Future EE Is Already Embedded in the Forecast

- Common Sense

- The forecast is not shaped like a “hockey stick” (i.e. with a change in growth rates)
- If future EE were not embedded, we should witness 1+ % additional growth, and we do not

SDG&E (MW)						SCE + PG&E + SDG&E (MW)					
	<u>Staff</u>	<u>%</u>	<u>Embedded</u>	<u>Forecast</u>	<u>%</u>	<u>Staff</u>	<u>%</u>	<u>Embedded</u>	<u>Forecast</u>	<u>%</u>	
	<u>Forecast</u>	<u>Growth</u>	<u>EE</u>	<u>w/o EE</u>	<u>Growth</u>	<u>Forecast</u>	<u>Growth</u>	<u>EE</u>	<u>w/o EE</u>	<u>Growth</u>	
2007	4,506					50,496					
2008	4,568	1.4%	62	4,630	2.8%	51,253	1.5%	544	51,797	2.6%	
2009	4,641	1.6%	?			52,046	1.5%	?			
2010	4,712	1.5%	?			52,844	1.5%	?			

- SDG&E’s LTPP: CPUC Assumed All EE Was 100% Embedded
  - Note: SDG&E’s Target EE goals are already 118% of maximum achievable
- EE Should Be Treated the Same as Implied Historically
  - More than “double-counting” is possible/probable in the resource planning phase
  - Cumulative EE impacts need to be discounted
  - EE programs decay over time, are replaced by standards, etc.
  - CEC Staff recognizes this in their analysis, for example:
    - SDG&E’s cumulative EE impacts for 2005-2008, which are “explicitly” accounted for in Staff’s models, equals 185 MW
    - Over the 2005-2008 period, Staff’s total “conservation savings estimate” equals 107 MW