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January 29, 2009

MEMORANDUM

TO: Council Members

FROM: John Fazio, Senior Power System Analyst Jeff King, Senior Resource Analyst

SUBJECT: Briefing on treatment of climate policy in the 6th Power Plan

Today's presentation proposes assumptions for CO_2 allowance price, production tax credits (PTC), investment tax credits (ITC), and renewable energy credits (REC) to be used in the development of the Sixth Power Plan (pending the Power Committee's approval). It also proposes a set of potential studies that will address key issues for the Council.

 CO_2 price, PTCs, ITCs, and RECs present major uncertainties in the development of the Sixth Power Plan. They affect the cost of resources, electricity prices, electricity demand and levels of cost-effective conservation. For the plan, assumptions regarding *expected average* CO_2 prices over time are needed to forecast future electricity prices. A *wide range* of CO_2 prices over time along with a *probability distribution* for that range are required for the portfolio model in order to develop a set of viable resource strategies. Table 1 below summarizes assumptions used in the Fifth Plan and the proposed assumptions for the Sixth Plan. Proposed assumptions regarding renewable resource financing incentives are still under development.

Tuble 1: 1 Toposed CO2 Throwance Cost Assumptions		
	5 th Plan	6 th Plan
Average CO ₂ Price	\$7.85/ton	\$47.72/ton
High End CO ₂ Price	\$30/ton	\$100/ton
Futures with CO ₂ Price	67%	95%

Table 1: Proposed CO2 Allowance Cost Assumptions

The fundamental approach to developing the power plan must consider the impact of state renewable portfolio standards (RPS) and the least-cost approach to achieving various levels of power system carbon dioxide production. To accomplish this, a three-phase study approach is proposed:

- A least-cost plan given state RPS mandates
- A least-cost plan that achieves the same CO₂ production but without the RPS
- Multiple studies to identify least-cost plans that further reduce CO₂ production







	5 th Plan	6 th Plan	
Average CO ₂ Price	\$7.85/ton	\$47.72/ton	
High End CO ₂ Price	\$30/ton	\$100/ton	
Futures with CO ₂ Price	67%	95%	
PTC Range	\$0 to \$10	Under Review	
Average REC	\$4	Drop from analysis	















