



Transmission Research Program

Strategic Benefits Quantification of Transmission Projects

Project Introduction Briefing

California Public Utilities Commission

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By

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Research Objective

- ✓ **Summarize research results on benefits of transmission projects**
- ✓ **Review methodologies being used for transmission project benefit quantification**
- ✓ **Review and summarize benefit analysis of recent transmission projects**
- ✓ **Present research results to improve benefit quantification methods**
- ✓ **Outline approaches to apply improved benefit quantification methods to:**
 - ✓ **Evaluate project cost effectiveness**
 - ✓ **Allocate transmission costs among participants**
 - ✓ **Develop framework for cost recovery**



Project Technical Advisory Committee



DeDe Hapner, Vice President, FERC and ISO Relations, Pacific Gas & Electric

Les Starck, Director of T & D Business Unit, Southern California Edison

Caroline Winn, Director of T&D Asset Management, San Diego Gas & Electric

Sean Gallagher, Director of Energy Division, California Public Utilities Commission

Steve Ellenbecker, Energy Advisor to WY Governor Freudenthal

Jim Bushnell, Research Director, UC Energy Institute



Project Research Team



CERTS/LBNL – Joe Eto

CERTS/EPG – Vikram Budhraja, Fred Mobasher, John Ballance, Jim Dyer

CERTS Consultant – Alison Silverstein

Project Schedule

Project Start -- October 2006

Outreach–Frontier Line meetings – Nov 06 & Jan 07

CEC Technical Advisory Committee -- January 2007

Public Presentation of Interim Findings -- May 2007

**Project Technical Advisory Committee [PTAC] --
September 2007**

Revision based on PTAC Input -- October 2007

**Outreach to CEC, CAISO, CPUC, IOUs – November
2007 to April 2008**

Final Research Results and Report – June 2008

Topics Addressed During Research

- ✓ **Transmission Technologies – How do they impact benefits, influence cost allocation, impact stakeholders?**

- ✓ **Industry and Regulatory Changes – How have things changed and what does it mean for large regional transmission projects?**

- ✓ **Review of Other Regions and Industries – What can we learn and apply for transmission in California and the Western Interconnection?**

- ✓ **Benefit Quantification, Cost Allocation and Approval Processes**
 - ⇒ **Focus of today's briefing: Benefit Quantification**