



Energy Data Access Workshop Agenda

Rulemaking 08-12-009

January 15-16, 2013

CA Public Utilities Commission Auditorium, 505 Van Ness Ave, San Francisco, CA 94114

January 15, 2013

9:30-10:00

Introduction to Energy Data Scoping Memo

Marzia Zafar, Director, Policy and Planning Division

Audrey Lee, Advisor, President Peevey's Office

Current CPUC data resources: Customer Information System

Carmen Best, Supervisor, Demand Side Evaluation, Energy Division

10:00-10:15

Break

10:15-12:00

Panel 1: Existing Protocols for Energy Data Access: Working towards a consistent, uniform, transparent process for access to energy data from the investor-owned utilities. This is a follow-up to the October 11-12, 2012 workshop. What is not being provided now? What is an appropriate cost-effective solution to give the third parties what they need in a timely fashion? Topics include: agreement on definitions (e.g., customer-identifiable data, aggregated data, anonymous data), customer-identifiable data through a non-disclosure agreement (NDA), aggregate or anonymous data without an NDA, data format, data security protocols, acceptable purposes, etc.¹ What are the criteria for data sharing (mutually beneficial, conditions,

¹ "What constitutes an appropriate request, requesting party requirements, acceptable reasons for requesting data, the type of information provided to the requesting party and the terms under which information would be made available in a manner that protects customer privacy (ie: non-disclosure or other terms)." SDG&E comments, page 3

contractual relationship requirements, information security reviews, cost-benefit analysis, timeframe for realization of benefits)? What are the costs² and how should they be settled? In addition, utilities will have an opportunity to present initial findings from a data request made by the CPUC, based on questions the EFF posed in its comments³.

Moderator: Audrey Lee

Christopher Warner, Chief Counsel, PG&E

Lauren Rank, Los Angeles County

Sachu Constantine, California Center for Sustainable Energy

Lee Tien, Electronic Frontier Foundation

12:00-1:15

Lunch

1:15-3:15

Panel 2: Benefits of an Energy Data Center to Ratepayers and CA Energy Policy (5 minutes for each panelist): What are the applications? How will the new data will be used, what will it accomplish, and at what cost and what benefit to ratepayers? Should other data sets be merged with energy consumption data⁴? Who should be users of the energy data center – researchers, policy makers, wider public, and/or market participants⁵?

Moderator: Marzia Zafar

Meredith K. Reynolds, Environmental Programs Administrator/Acting Community Services Manager, City of Irvine remote

Lawrence Oliva, Director of Tariff Programs & Services, SCE

Stephanie Pincetl, California Center for Sustainable Communities, Institute of the Environment, UCLA

Stacey Reineccius, Consultant

² SoCalGas comments, page 4

³ EFF comments, page 6

⁴ LGSEC, page 7; CEC comments, page 3

⁵ CEC submission, page 3, 10

Elizabeth M. Bailey, Executive Director of the Energy Institute at the University of California, Berkeley's Haas School of Business

John Joseph, Strategic Analyst, Green Communities and Innovator Pilots, PG&E

Jeff Deason, Climate Policy Initiative

Sylvia Bender, Deputy Director, Electricity Supply Analysis, California Energy Commission

Philip Henderson, Senior Financial Policy Specialist, Natural Resources Defense Council

Stephanie Chen, Greenlining

Shouvik Banerjee, Senior Manager, New Products Business Development, SolarCity

Ram Rajagopal, Assistant Professor of Civil and Environmental Engineering and Electrical Engineering Stanford University - remote

3:15-3:30 Break

3:30-4:30

Panel 3: Security Protocols: What are utilities currently doing in terms of security protocols? What are relevant security protocols in other industries, e.g. health? Examples of protocols are passwords, non-networked computers, servers, ongoing Commission approval as protocols evolve.

Moderator: Carmen Best

Ann S. Chang, Chief Information Security Officer, Office of Compliance Services, UCLA Health - remote

David Grant, Director, California Health Interview Survey, UCLA for Health Policy Research - remote

Steve Knaebel, Director, Enterprise Technology Risk Management, PG&E

Tyler Howe, Principal Compliance Specialist, Enterprise Technology Risk Management, PG&E

David Rigby, Geography Department, CA Census Research Data Center

Jennifer Scheuerell, Information Systems Consultant, Sound Data Management LLC

Brian Proctor, Electric Transmission & Distribution/ Smart Grid Security Principal, SDG&E

January 16, 2012

9:30-10:40

Panel 4: Privacy Principles and Standards: What are the ground rules we can all agree on? How do we balance privacy protection with data and analytical utility? What are the risks of an energy data center? Would a datacenter that did not rely on customer opt-in violate California law? Could we leverage existing organizations that collect customer usage information to act as a datacenter?⁶

Moderator: Timothy Sullivan, Administrative Law Judge, CPUC

Christopher Vera, Office of Customer Privacy, Privacy by Design, SDG&E

Jennifer Urban, Director, Samuelson Law, Technology & Public Policy Clinic, UC Berkeley

Alan Meier, Senior Scientist, Energy Analysis Department, Lawrence Berkeley National Laboratory and UC Davis

Ashwin Machanavajhala, Assistant Professor, Computer Science, Duke University – remote

Dan Kifer, Professor, Computer Science, Pennsylvania State University - remote

10:40-10:50

Break

10:50-12:00

Panel 5: Standardization and Data Transfer: What would be reasonable minimum standardization requirements for the data submitted to the data center? Possible data attributes: a) the specific data fields for each customer account subject to research access (e.g., daily or monthly use in units, total monthly cost, and average use between certain hours); b) the period of time covered by the research data set (e.g., prior 24 months); c) periodic updating (e.g., at least every 3 months); d) usage restrictions should permit researchers to combine information from multiple utilities⁷. When would secure transfer be applicable? (e.g. from the IOUs to the data center, or from the data center to users?) The answer is dependent on the point at which the data is made anonymous or aggregated.

⁶ TURN suggested the California Energy Commission or Lawrence Livermore National Laboratory in its Reply Comments.

⁷ NRDC comments, page 4

Moderator: Carmen Best

David Wollman, Manager, Smart Grid Standards and Research, NIST

Paul Matthew, Lawrence Berkeley National Laboratory (DOE Buildings Technology Program)

Eric Merkt , Associate Director, Energy Navigant

James Green, Direct Technology

Catherine Wolfram, Associate Professor at the University of California, Berkeley's Haas School of Business and Co-Director of the Energy Institute at Haas

12:00-1:30

Lunch

1:30-3:00

Panel 6: Aggregated and Anonymous Data for Certain Users and Wider Public Release: What are appropriate level(s) of aggregation for data and how could a data center anonymize data for public release? How do we balance the risk of privacy violation with the benefits to ratepayers? Could the data center hold the keys to coded, anonymous data, or act as an intermediary between the analyst and the data as a privacy-protecting screen or filter⁸ ? Should synthetic data be provided by the data center⁹? Should sub-sets of detailed, customer-level anonymous data be provided¹⁰? How could differential access to data be designed? Should aggregation and anonymization methodology be an ongoing process with a periodic review/oversight board? What interval – monthly, hourly, 15-minute, peak versus off-peak? What geographical boundaries – census tract, census block group, census block, zip+4/3/2/1, bus bar? Other data – customer rate, sector (single-family, multi-family, commercial, industrial, NAICS code – LGSEC comments, page 6), policy and program participation – policy relevant dimensions¹¹? How do we prioritize data needs?

Moderator: Audrey Lee

Tim Treadwell, California Center for Sustainable Energy

⁸ EFF's comments, page 10

⁹ DRA comments, page 13

¹⁰ CEC comments, page 5

¹¹ CPI comments, page 5,6

Mike McCoy, Strategic Growth Council, formerly UC Davis

Aram Shumavon, DECA

**Leslie Willoughby, Load Analysis Manager, Regulatory Strategy Electric Load Analysis,
SDG&E**

3:00-3:30

Next Steps

Remote attendance information:

Conference Phone Line: (866) 797-3665

Participant Code: 6464299

WebEx information:

Meeting Number: 744 708 652

Meeting Password: data

To start or join the online meeting:

<https://van.webex.com/van/j.php?ED=196938147&UID=0&PW=NM2UxZmQzZjkz&RT=MiM0>

Assigned Commissioner's Scoping Memo and Ruling Amending Scope of Proceeding to Seek Comments
and to Schedule Workshops on Energy Data Center:

<http://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M031/K744/31744124.PDF>

Service List 3:

http://www.cpuc.ca.gov/service_lists/R0812009_80667.htm

CPUC Smart Grid webpage:

<http://www.cpuc.ca.gov/PUC/energy/smartgrid.htm>

This Workshop will be video webcast in real-time and archived thereafter at

www.californiaadmin.com/cpuc.shtml