# Using Data to Provide Value to Ratepayers

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## **Customer Specific and Aggregated Data**

PG&E balances responsibility to **protect customer privacy with need to provide aggregated data** where use is mutually beneficial to third parties, PG&E and its ratepayers.

### Customer Identifiable Information

- No release of customer information to third parties without consent
- Provide transparency for customers who do elect to provide their information
- Provide technology to facilitate transfer of data securely to third parties

## Aggregated customer data

- Aggregate sufficiently to protect customer identifiable information
- Provide aggregated data where use is mutually beneficial
- Protect value of data for ratepayers
- Provide expertise, analysis and tools

## Automated Benchmarking Service

PG&E customers are increasingly driven to benchmark their buildings, in part because of recent legislative initiatives.

AB 1103

• Requires non-residential building owners to disclose benchmarking data at the point of a real estate transaction.

San Francisco Existing Commercial Building Energy Performance Ordinance

• Requires annual benchmarking disclosure for buildings > 10,000 square feet (first deadline is October 1, 2011).

Both laws require building owners to use ENERGY STAR Portfolio Manager (ESPM), a free web tool developed by the EPA.

## PG&E's Automated Benchmarking Service (ABS)

PG&E provides energy data electronically to Energy Star Portfolio Manager customer's request to make continuous benchmarking easy and efficient.

Ele Edit Yew Favorites Tools Help	
Automated Benchmarking Service Console	
rganization that already provides you with energy related services (Op envices (Option 2). You can have multiple providers and can assign p	data to your account automatically. To start this service you can either select an tilen 1) or contact an automated benchmarking provider in order to inquire about their roviders to individual buildings and meters, as appropriate for your portfolio.
Option 1: Select Your Current Provider *	Learn More About Automated Benchmarking
Pacific Gas and Electric Company   ADD >>	What is automated benchmarking? Automated benchmarking allows authorized energy service providers to transfer data into your account automatically. Energy service providers offering this service range from energy service companies to utilities to regional energy efficiency programs. Different providers offer different services including:
Option 2: Inquire About New Services	Manufacture Mathematical and a second data is successful.
	<ul> <li>Managing all the building and energy data in your account</li> <li>Updating one or more meters with energy use data</li> </ul>

### Customers provide consent to PG&E to begin automated download service

PGSE

### **PG&E provides:**

- Automated upload of data
- Training and technical assistance
- Follow-up audit and project assistance

#### Workshop Schedule & Registration Link

Benchmarking Tutorial/What's Next After Benchmarking 8:30am – 4:30pm

Pacific Energy Center, 851 Howard St., San Francisco August 7 September 4 October 16

November 20

Pipe Trades Training Center, 780 Commercial St., San J August 21 November 29

San Ramon Valley Conference Center, 3301 Crow Canyon Road, San Ramon November 19

# Rating Building Performance

Automated Benc

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## PG&E Green Communities

- Program provides aggregated community data to local governments and key stakeholders to support strategic energy and climate action planning
- Combine customer information from with data from multiple sources as an ongoing decision making tool
- Protect customer privacy while providing expertise and analytics third parties
- Non-Disclosure Agreements arranged as required to allow PG&E to provide proprietary data when required.

### **Old Model**

Offer **raw data** directly to local governments when requested only for emission inventories



### **New Model**

Use **data as an engagement tool** - provide insights and analysis



Raw data provided to over **80%** of **243 local governments** in PG&E Service Territory for emissions inventories



Interactive reports focus on community, residential, and non-residential sectors.

## Residential Energy Efficiency Opportunity

Interactive residential targeting report presents customer energy, marketing, household, appliance and other information in aggregated format.

Provided under Non-Disclosure Agreement free of charge to any requesting local government

Residential Energy Efficiency Opportunity Map for City of Fresno Select either Usage or Energy Effiency Opportunity ... Energy Efficiency Opportunity Energy Efficiency Opportunity Then you can select a Zip Code and finally a Zip + 2 for a closer view: High Medium I owest Total Customers Highest Opportunity Low Opportunity Zip 937 21,554 1,977 5 867 3 908 2 2 9 7 16.522 4,079 2.857 1.626 1.745 937 5.681 937 14.873 4.220 3.913 2.863 1,671 1.450 3,399 3,149 2,681 1,902 13,674 1,757 937 11,483 4,019 2,428 1,891 1,295 1,387 937 11,172 2,885 2,844 2,233 1,424 1,271 937 11,155 2.362 2.634 2.387 1.774 1.444 937 937 10,565 3.095 2.579 1.887 1.284 1.152 1,662 1,666 1,460 1,115 963 937 7,199 6.945 1.429 1.566 1.384 1.132 1.067 937 1,505 943 991 937 6.772 1,560 1,359 4,792 994 1,026 876 734 855 937 937 1.67 Zip + 2 93711-193 734 192 53 93727-729 300 126 44 155 151 93720-4 655 200 57 64 93725-651 182 127 127 93720-616 156 176 149 54 93720-616 129 132 93711-605 122 124 118 90 93722-601 122 128 93722-593 167 184 107 63 55 156 93722-584 152 107 55 79 37 33 93722-583 233 169 D/I 93722-577 220 166 102 39 28 93720-568 220 140 104 38 54 About Tableau maps: www.tableausoftware.com/ 93722-556 214 33 38 163 Highest 93720-4 546 234 49

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ation of Pacific Gas and Electric

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### **Non-Residential Sector Overview**

Interactive non-residential targeting to help decision makers understand commercial energy usage in their community.

Available free of charge to any requesting community.



Segments below the 80 % of Total line collectively make up 80% of Total
 Steepness of curve = impact of the segments in that part of the curve

## **Customer Adoption**

### Automated Benchmarking

 Over 7,000 buildings are currently enrolled in PG&E Automated Benchmarking Services

## Aggregated customer data

- 83% of local governments have received climate action planning data from PG&E
- 52% of local governments have received an advanced report with zip code or sector information
- 18 local governments have entered into non-disclosure agreements with PG&E to receive proprietary data