

# The California Electricity Customer Of the Future & Residential Customer Segmentation

Joint Meeting: August 14, 2012



# Agenda

- Introductions → All
- Overview → Dana Santana (SDG&E)
- Future state and trends for next 5 years
- Overview of each IOU's segmentation → Dana Santana (SDG&E), Gail Malone (SCE), Jodi Stablein (PG&E)
- Statewide Segmentation → Gail Malone (SCE)
  - 2009 Statewide MEO Segmentation
  - Common segments across IOUs
- Example of program against the adoption curve → Jodi Stablein (PG&E)
- Next Steps discussion and brainstorming → All

# Overview

The CPUC is embarking on a project designed to understand our customers of the future and how they are faring in California in 2020. The CPUC and the IOUs have embarked on a number of new programs that will substantially change the customer experience by 2020.

Our efforts to increase energy conservation and efficiency, renewables, and even electric vehicles require customers to be more knowledgeable, engaged and disciplined than ever before.

This is a paradigm shift from the historical view of utility consumers as merely ratepayers.



# Marketplace Future Trends

# Marketplace Trends: 2013 - 2020

1	Growing, aging and diverse population
2	Weak economic growth
3	Technology adoption around communications
4	Interest in alternative energy sources increasing
5	Remote energy monitoring and management
6	Electricity usage to continue to increase
7	Consumer privacy radar getting stronger
8	Two dominant generational groups (Millennials and Boomers) undergo major life stage shift through 2020
9	Increased role of consumers influencing service model
10	Next era of marketing shifting to a participative and collaborative value creation age

# Growing, Aging and Diverse Population

- The state's population is expected to increase by 11.5% over the next decade due to high foreign migration.
- Latinos are projected to be the majority ethnic group in four years. Hispanics are not a monolithic group – nearly 80% of Hispanics are Spanish dominant/preferred.
- The state's population is also aging as the number of seniors is expected to soar over the next decade.
- The age segment 65-74 is projected to increase 28% (2015 vs. 2010) and 22% (2020 vs. 2015). The opposite trend is projected to occur among the younger age groups.



# Weak Economic Growth

*Consumers are uncertain about their economic stability and are struggling economically*

- Some will continue to have difficulty paying their bills and will have even higher expectations of our service
- Some residents are choosing to leave the state, taking with them their professional skills and their families. Main factors contributing to migration include high cost of living and importantly the lack of affordable housing
- CA unemployment remain higher than US and not reach pre-recession rates until 2020+
- The state's homeownership continue to drop to 52-54% through 2020; renters of multi-family dwellings will increase
- Increasing customers on CARE (for example, PG&E's increased 35% from 2008 levels)



# Technology Adoption Around Communications

*Technology is changing the landscape faster than ever and shifting the traditional interaction preferences. Self-service options and ease of access, including mobile will be critical to meeting customer expectations*

- Customers are moving towards self-service or low touch methods interactions, such as email, social, mobile
- Seventy percent of US consumers desire multi-channel options (text, mobile apps, web etc.). Channel interactions will vary based on circumstances vs traditional segmentation
- Smartphones are quickly becoming one of the main mediums for customer contact. By the end of next year it is projected that over half of US mobile users will have a smartphone, rising to 70% by 2015. Hispanics are one of the youngest ethnic groups and are also one of the fastest-growing populations of smartphone users, outpacing all other ethnic groups
- Cashless and checkless society increasing widespread adoption of mobile payments expected in 2020
- Worldwide approximately 57 million customers used social media to engage utilities in 2011 - number expected to rise to 624 million customers by the end of 2017. Use of social media and online communities continues to increase: ~50% of US population estimated to have a Facebook account



# Interest in Alternative Energy Sources Increasing

- Growing concern over the health of our planet sparks recognition they can take action by generating power in their home
  - Solar capacity is up and the cost of solar PV has fallen
  - High bill customers are looking for self-generation to ease their pocketbook
- While not common on the road today, EVs are predicted to be the wheels of tomorrow
  - PRTM, a management consultancy, estimates that by 2020, about 20% of vehicles will be some form of an EV
  - Technical advances in batteries will continue to make costs fall
  - It is estimated the costs will fall from about \$650 per kilowatt-hour today to about \$300 in 2020. EVs will also have a lower total cost of ownership to their advantage

# Remote Energy Monitoring and Management

- The Smart Grid enables customers to monitor and manage energy use. The market for IHDs and HAN systems will grow slowly through 2015
- Standard approvals for in-home devices expected in 2015; connect all home technologies with the touch of a button
- Pike Research sees the market for home energy management systems in the U.S. alone reaching 28 million customers by 2015. Tools and apps will allow the cost of one's appliances to be more transparent and top-of-mind by showing the phantom costs, which are the costs of running a device that's on standby

## Other Key Trends

- **Electricity usage to continue to increase:** This is attributed to the increase in electronics per household, in addition to the impact the projected increase in electric vehicle sales will have on demand
- **Consumer privacy radar getting stronger:** People are in self-protection mode, rethinking strategies for privacy in networking locally and socially, and with the companies who collect information about them
- **Two dominant generational groups will undergo major life stage shift** over next eight years: Millennials will outspend Boomers by 2017. **Millennials** look to social networks and communities to provide insights and advice. Hispanic Millennials desire to succeed to help parents who are struggling to recover post-recession (different motivation); more respectful to hierarchal authorities. Their service expectations are all things connected, networked, electronic and personalized. While **Boomers** are tech savvy on baseline technology; represent ½ of consumer electronics share in 2015+. They are youthful and committed to exploring and discovering new products and services
- **Increased role of consumers influencing service model:** Consumers always connected, taking on greater roles beyond the TRADITIONAL, leading to empowerment and higher threshold of service expectations
- **Next Era of Marketing** shifting to a participative and collaborative value creation age



# Therefore Increased IOU Need in the Future of...

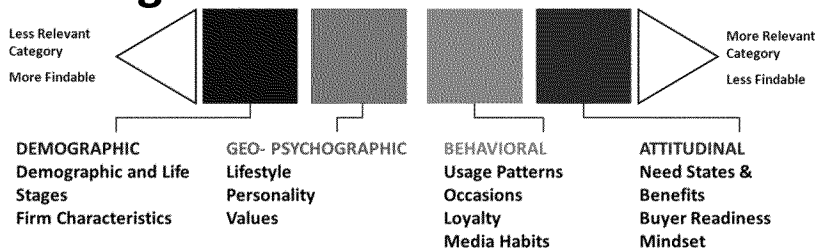
- **Segmenting, customization, more relevancy** to each customer; tailored approaches; analytics
- Providing technology driven **communications** and being quick to **modify communications channels** based on their changing needs in the future
  - We will need to engage customers in new ways such as HAN devices, social games, and apps for energy savings and conservation. We will need to provide an upgraded customer service experience through customized recommendations, seamless sign up and speedier delivery
- Providing **more information** for the taking, allowing for more sense of **control** (increasing satisfaction)
- **Making it easier to do business with us**
- **Communicating/educating** on and providing tools on **how to save energy**. More focus on the growing electronics and peripheral use, and what actions impact their bill will be key

# Brief overview of each IOU's segmentation



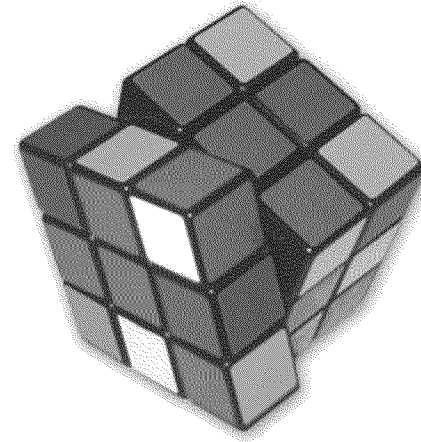
# Segmentation Overview

- **What is segmentation?**
  - “Segmentation is the process of partitioning markets into groups of customers and potential customers with similar needs and/or characteristics who are likely to exhibit similar purchase behavior...” – Art Weinstein
- **There are numerous ways to segment:**



**We’ve learned...** Best fit segmentation approaches to address need:

- Attitudinal/Motivation: to develop marketing messages
- Probability Hierarchy: for targeted mailing and messages
- Geo-demographic clusters: for target mailing (addressable)



# Segmentation Overview – S D G & E



# Where we started...

## 6 Residential Segments – Demographics

Comfortables	Established	Challenged	Successfuls	Young Mobiles	Professionals
<b>Mainstream who value convenience</b>	<b>High service users except turn on</b>	<b>Renters who need bill assistance &amp; personal attention</b>	<b>Well-off, high energy users, outage sensitive</b>	<b>Young renters who move more often, web-savvy</b>	<b>Leave me alone, web-savvy</b>
Mostly homeowners	Mostly homeowners	Mostly renters	Highest proportion of homeowners	Mostly renters	Equal homeowners & renters
Mostly college educated	HHI \$49K	Least educated	Highly educated	High school	Mostly college educated
HHI \$72K	High proportion of age 65+ (30%)	HHI \$28K	HHI \$101K	HHI \$44K	Mostly college educated
High proportion of whites		Mostly 45 or younger	Mostly 45 or older	Mostly 25-54 slightly younger than professionals	HHI \$71K
High proportion of age 65+ (30%)		20% are 65+	Highest proportion of whites	2nd highest Hispanics	Mostly age 25-54, lowest proportion of 65+
2 <sup>nd</sup> highest A/C		Highest proportion of Hispanics (about 40%)	Most have central A/C		High proportion of whites

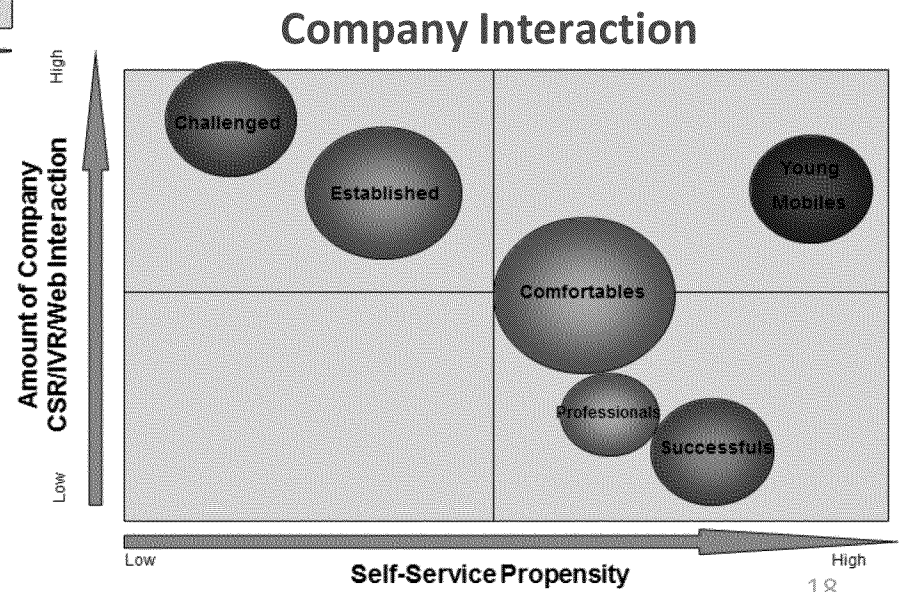
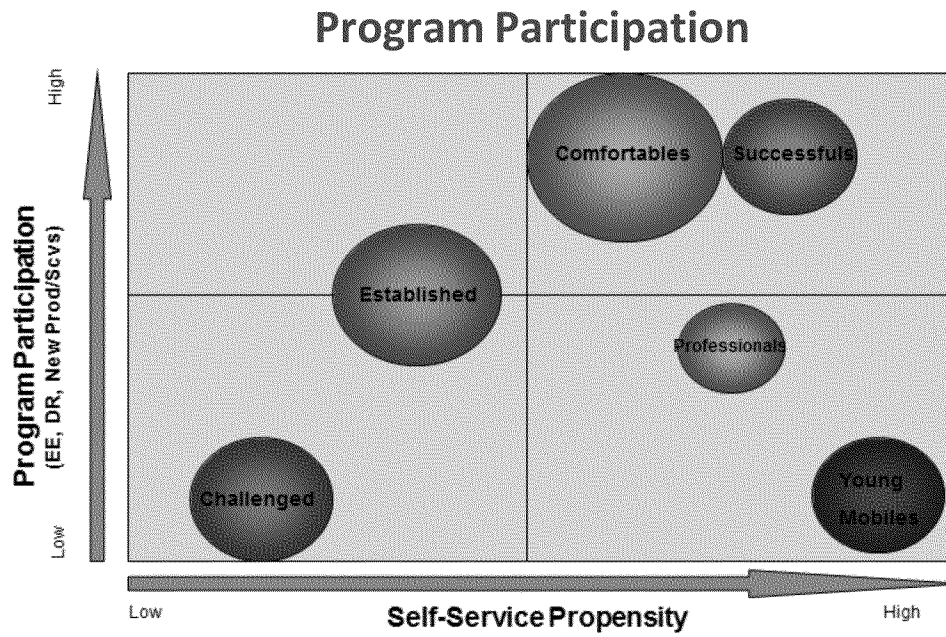
*Based on lifestyle and behavioral data at the household level as well as geo-demographic data which included Census 2000 demographics and ZIP+4-level demographics.*



## 6 Residential Segments – Behaviors

Comfortables	Established	Challenged	Successfuls	Young Mobiles	Professionals
<p><b>Mainstream who value convenience</b></p> <p>Minimal service needs, except outage</p> <p>High online and auto debit/phone payments</p> <p>High EE/DR</p> <p>Longest account tenure</p> <p>Avg. usage 600 kWh/mo.</p>	<p><b>High service users except turn on</b></p> <p>High seasonal service users</p> <p>Low My Account and online payment</p> <p>Mid EE/DR</p> <p>2<sup>nd</sup> highest account tenure</p> <p>Avg. usage 500 kWh/mo.</p>	<p><b>Renters who need bill assistance &amp; personal attention</b></p> <p>Great needs for payment assistance</p> <p>BO/APL users</p> <p>Least online users</p> <p>Low EE/DR</p> <p>40% enrolled CARE</p> <p>Avg. usage 370 kWh/mo.</p>	<p><b>Well-off, high energy users, outage sensitive</b></p> <p>Minimal service needs, except outage</p> <p>High online and auto debit/phone payments</p> <p>Highest EE/DR</p> <p>Highest energy usage</p> <p>Avg. usage 820 kWh/mo.</p>	<p><b>Young renters who move more often, web-savvy</b></p> <p>High service needs</p> <p>Highest My Account</p> <p>Low EE/DR</p> <p>Lowest account tenure due to frequent move</p> <p>2<sup>nd</sup> highest CARE enrolled</p> <p>Avg. usage 350 kWh/mo.</p>	<p><b>Leave me alone, web-savvy</b></p> <p>Minimal service needs, except turn-on</p> <p>2<sup>nd</sup> highest My Account</p> <p>Mid EE/DR</p> <p>Avg. usage 480 kWh/mo.</p>

# Self Service Propensity



# 2011 Residential Segmentation Study Objectives

In order to deepen our understanding of customers and their unique needs, identify distinct segments among Residential customers based on:

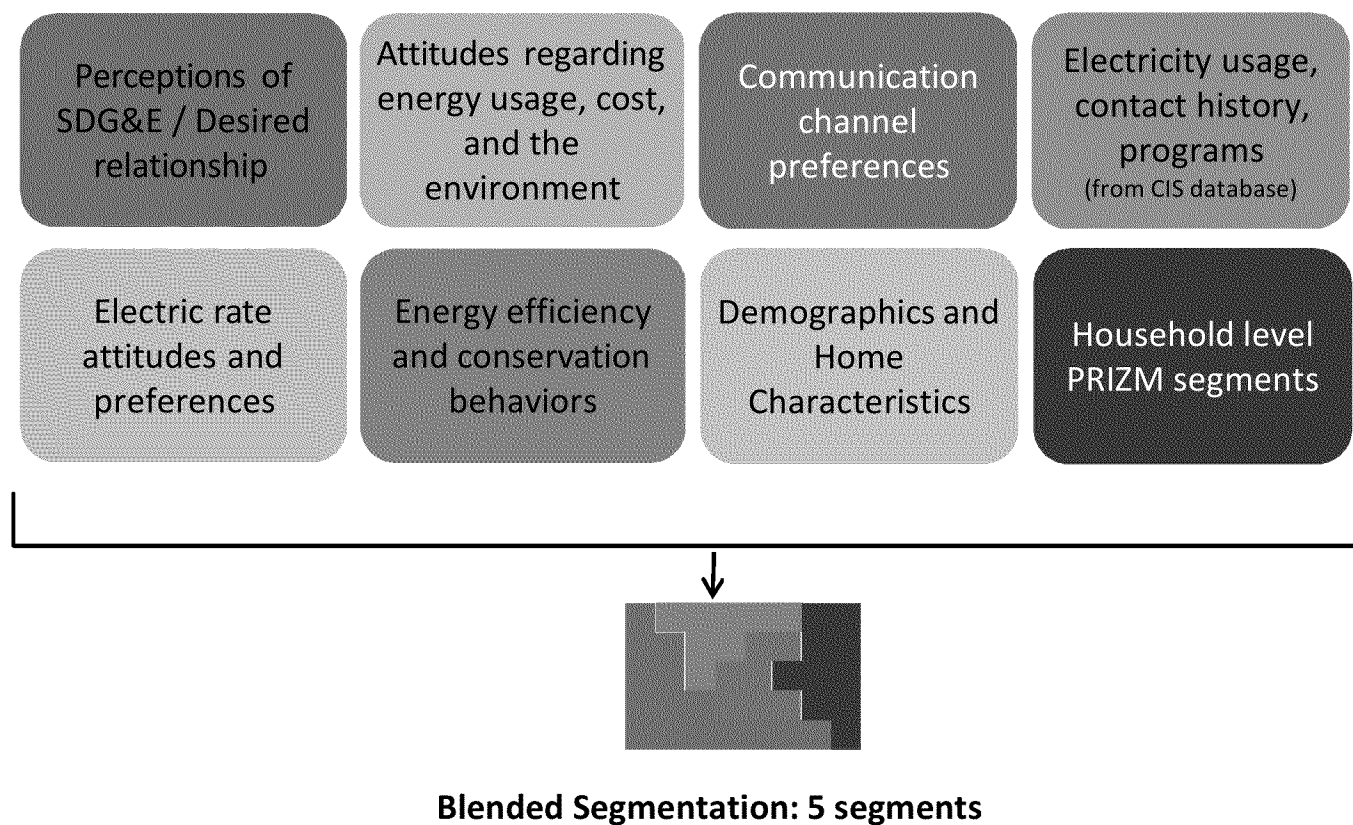
1. Attitudes and preferences regarding electricity rates and plans
2. Perceived ability and willingness to take action to change energy consumption patterns and behaviors
3. Motivations for adopting new behaviors, including underlying values that drive decisions
4. Attitudes toward energy efficiency and environmental issues
5. Affinity for new technologies and energy management tools
6. Communication channel preferences
7. Preferred sources of information

# Key Measures

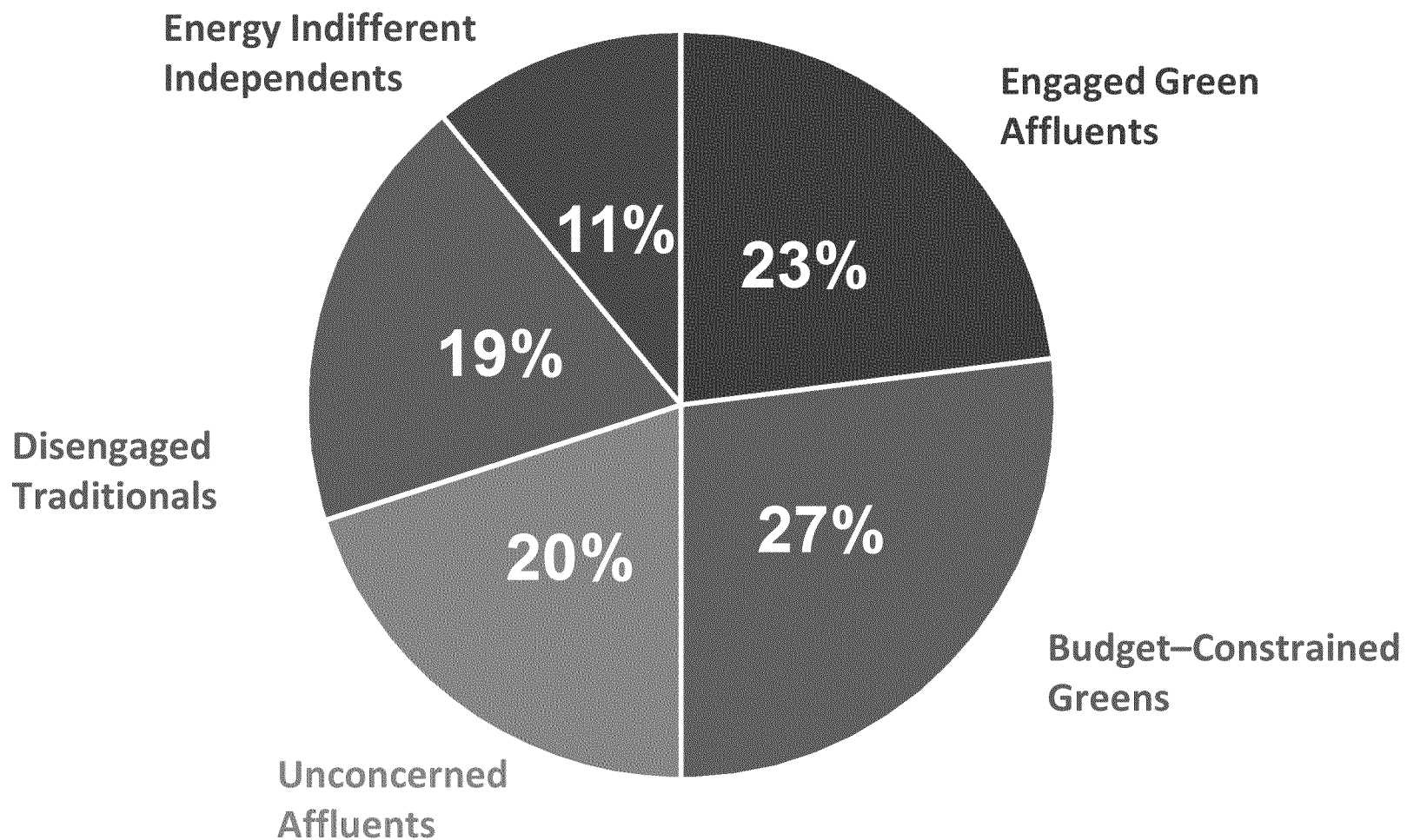
- Perceptions of SDG&E
- Desired level of engagement with SDG&E
- Energy efficiency and the environment
  - Attitudes regarding energy efficiency, energy costs, the environment, new technologies
  - Energy efficiency actions taken / plan to take
- Rates
  - Familiarity, perceptions, preferences
  - Response to TOU and DR scenarios / ability to adjust usage during peak demand periods
- Interest in energy management tools
- Preferred communication channels and sources for information about energy management and lowering electricity costs, pricing plans
- Demographics and home characteristics
- From the SDG&E database (CIS):
  - Household electricity consumption, contact history, program participation
  - Household-level PRIZM segments

# Segment Platforms Used in the Segment Solutions

- Eight platforms were used in the final five segment blended solution:



# Five Residential Customer Segments



# Residential Segment Summary

- Higher than average
- Average
- Lower than average

	Engaged Green Affluents 23%	Budget-Constrained Greens 27%	Unconcerned Affluents 20%	Disengaged Traditionals 19%	Energy Indifferent Independents 11%
Desired Relationship with SDG&E					
Interest in TOU rate					
Importance of Lowering Electricity Costs					
Importance of the Environment					
Actions taken / will take to reduce electricity use					
Interest in Energy Management Tools					
Communication Preferences	<ul style="list-style-type: none"> <li>• Higher for email / online channels</li> <li>• Lower for direct mail</li> </ul>	<ul style="list-style-type: none"> <li>• Higher for mail (info w/bill and direct mail)</li> <li>• Highest for personal interaction</li> </ul>	<ul style="list-style-type: none"> <li>• Generally prefer electronic channels</li> <li>• Lower for mail channel</li> </ul>	<ul style="list-style-type: none"> <li>• Prefer mail channel (bill info, direct mail)</li> <li>• Lowest for electronic and personal interactions</li> </ul>	<ul style="list-style-type: none"> <li>• Higher for email / online channels</li> <li>• Lower for direct mail</li> </ul>
Median Age	47.5	43.0	46.0	60.0	38.5
Household Income					
Own / Rent Home	76% OWN	73% RENT	72% OWN	83% OWN	70% RENT
Average Square Footage	1984 sq ft	1086 sq ft	1981 sq ft	1676 sq ft	1125 sq ft
Average Monthly Electricity Bill	\$102	\$45 (58% CARE)	\$135	\$69	\$48 (37% CARE)
Percent on MyAccount	63%	35%	63%	25%	79%

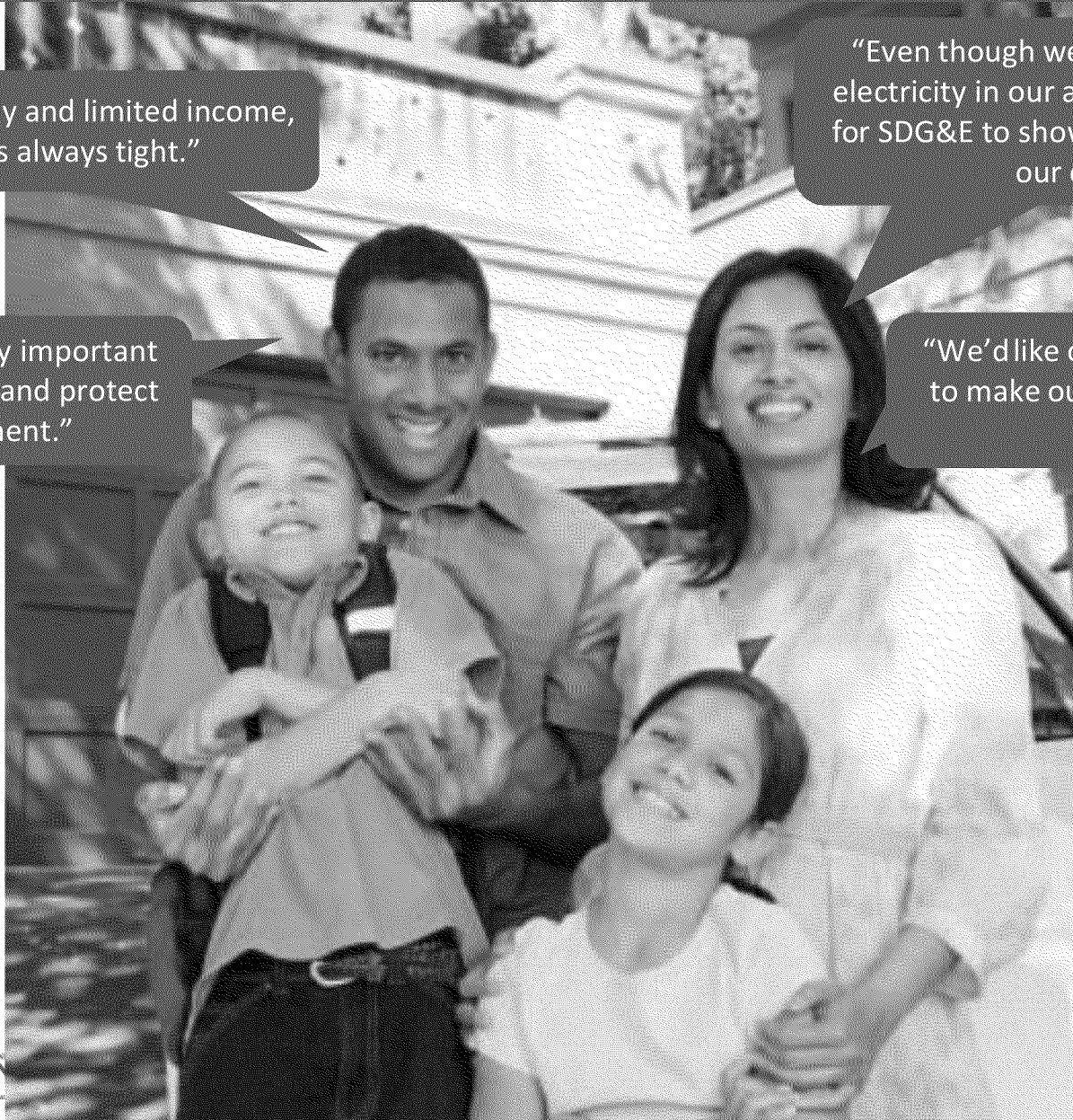
# Budget-Constrained Greens

"With our family and limited income, money is always tight."

"Even though we don't use a lot of electricity in our apartment, we'd like for SDG&E to show us ways to reduce our costs."

"We believe it's very important to conserve energy and protect the environment."

"We'd like our property manager to make our home more energy efficient."





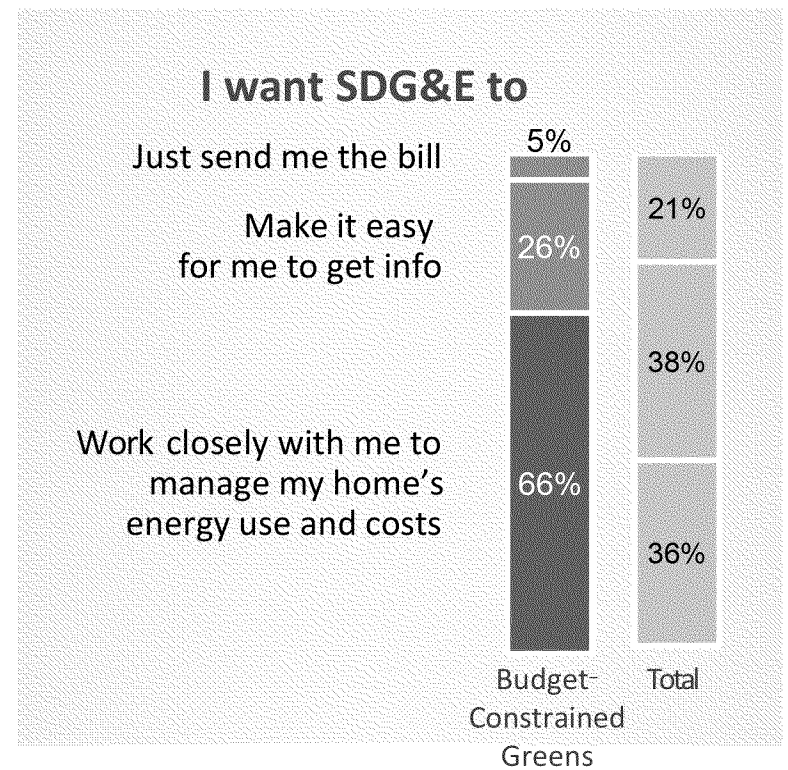


### Key Characteristics

- Key characteristics
- 27% of Residential customers
- Younger; lower HH income; less educated; 58% on CARE rate
- 73% rent; seven in ten in multi-family housing
- Lowest average square footage (1086), Lowest average monthly electric bills (\$45)
- Frequent phone contact; 58% with late payment(s) in past 12 months

### How They Differ

- Highest interest in engagement with SDG&E; 66% want to work closely with SDG&E (versus 36% among all Residential customers)
- Highly motivated to reduce expenses; highest on “It is very important for me to find ways to control my energy costs at home” (83% strongly agree)
- Also, very concerned about the environment and climate change
- Higher than average interest in SDG&E EE programs and energy audits
- Lower than average interest in rate choices
- Average interest levels for most energy management tools
- Higher for mail (info w/bill and direct mail)
- Highest for personal interaction



Survey questions: Q5

Shading indicates segment is significantly higher than other segments

# Classification Algorithms & Database Scoring

There are two main categories of scoring algorithms being used to assign customers to segments

**Database Scoring:** Data from the customer database is used to project segment membership for each customer

- The research industry standard for database scoring against survey-based segmentation is to achieve classification accuracy of greater than 50% across the segments.

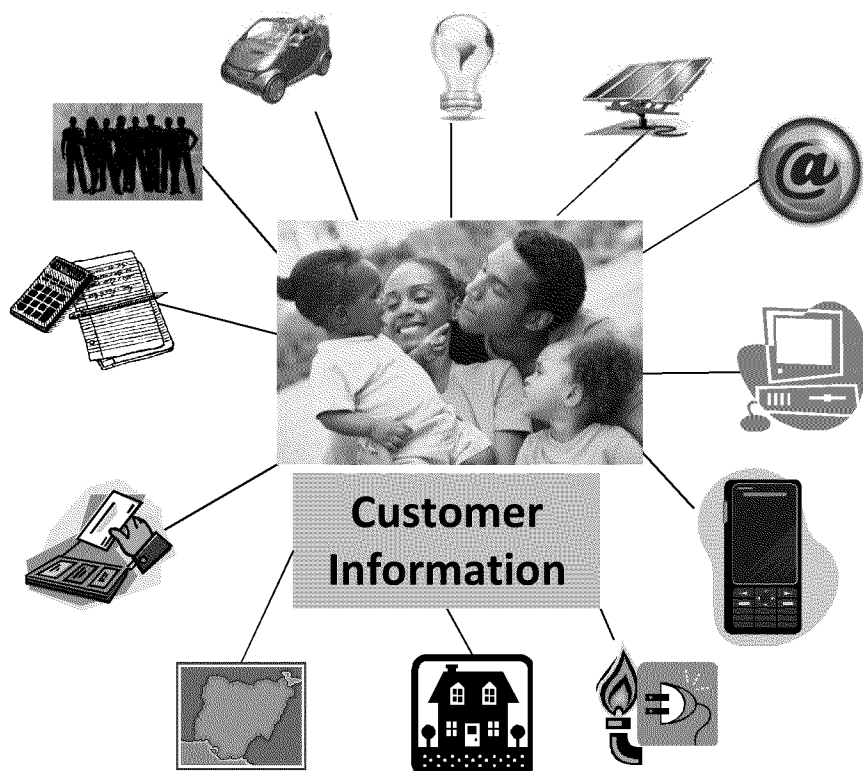
**71.9% cross-validated correct classification**

**Classification Algorithm:** A short list of questions from the segmentation survey used to assign future qualitative or quantitative market research participants to the study segments.

- The standard for these types of tools is to achieve a minimum overall classification accuracy of 70% across the segments.

**11 questions: 78.4% cross-validated correct classification**

# Further Understanding of Customers



**INTEGRATE** (30+) customer data silos – create “360 View of Customer”

**LEVERAGE “BIG DATA”** – Harness customer value from Smart Meters

**ENERGY ADVISORS** – Personalize solutions - create a “recommendation model” for Call Center

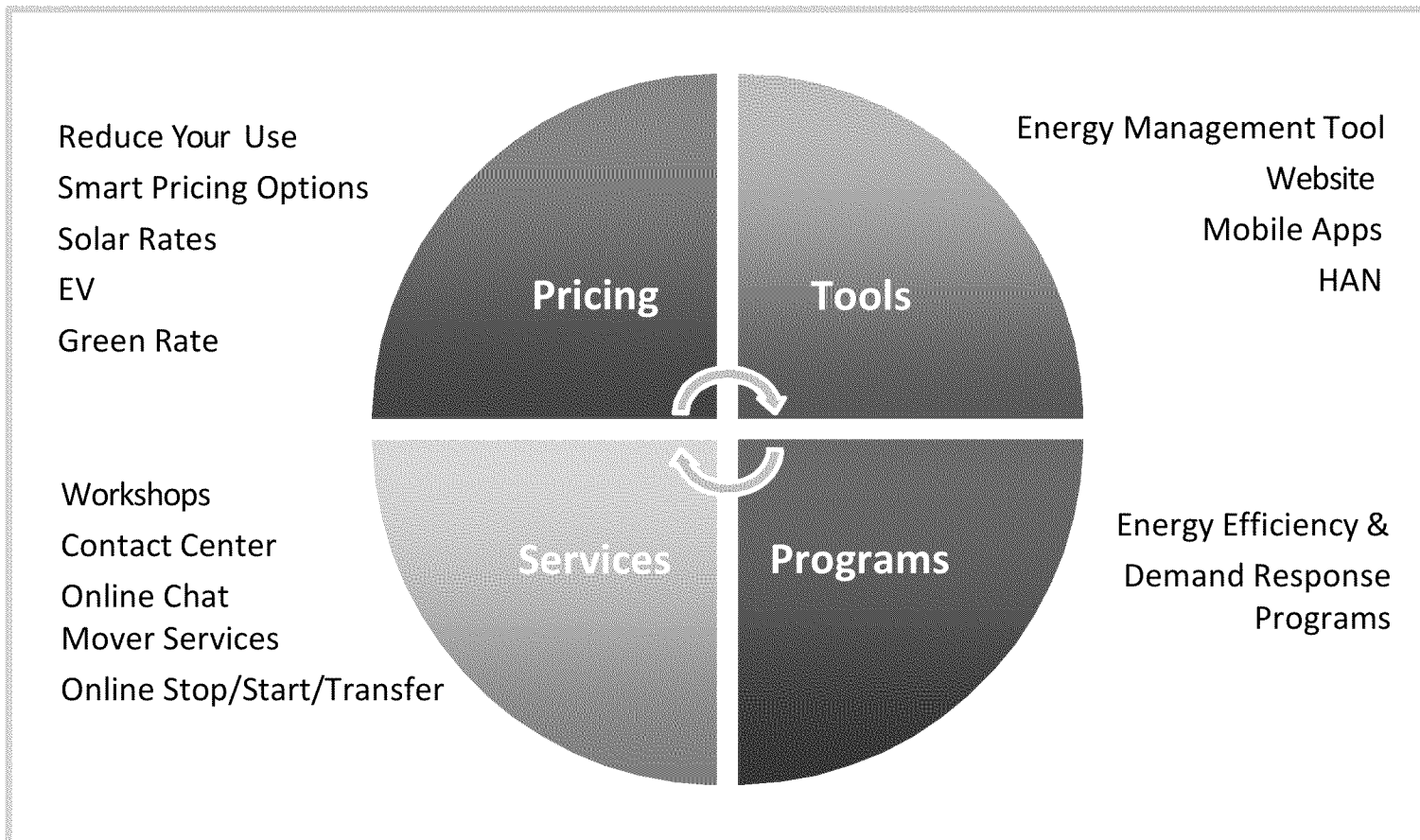
**CREATE SMARTER EMPLOYEES** – Customer Insights “Center of Excellence” – distribute knowledge

**CREATE SMARTER CUSTOMERS** – Be Relevant, and engage customers HOW and WHERE they want to be engaged

**PRIVACY & SECURITY** – Maintain customer trust through Privacy By Design

*Enriching Segments via Further Research  
Such as online customer insight panels and qualitative research*

# Customer Engagement Framework



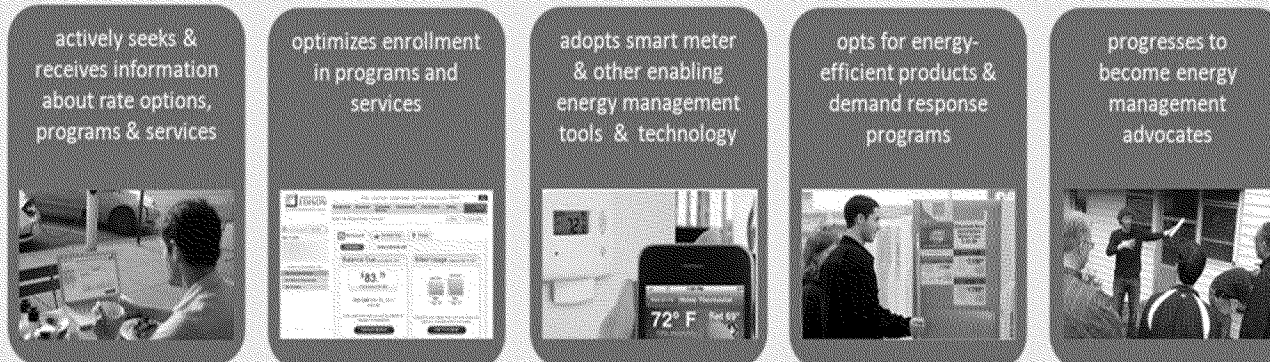
*By offering the **right information** to the **right customers** through the **right channels** at the **right time**, we enable customers to make informed energy management decisions*

# Segmentation Overview – S C E



# SCE Customer Engagement Framework

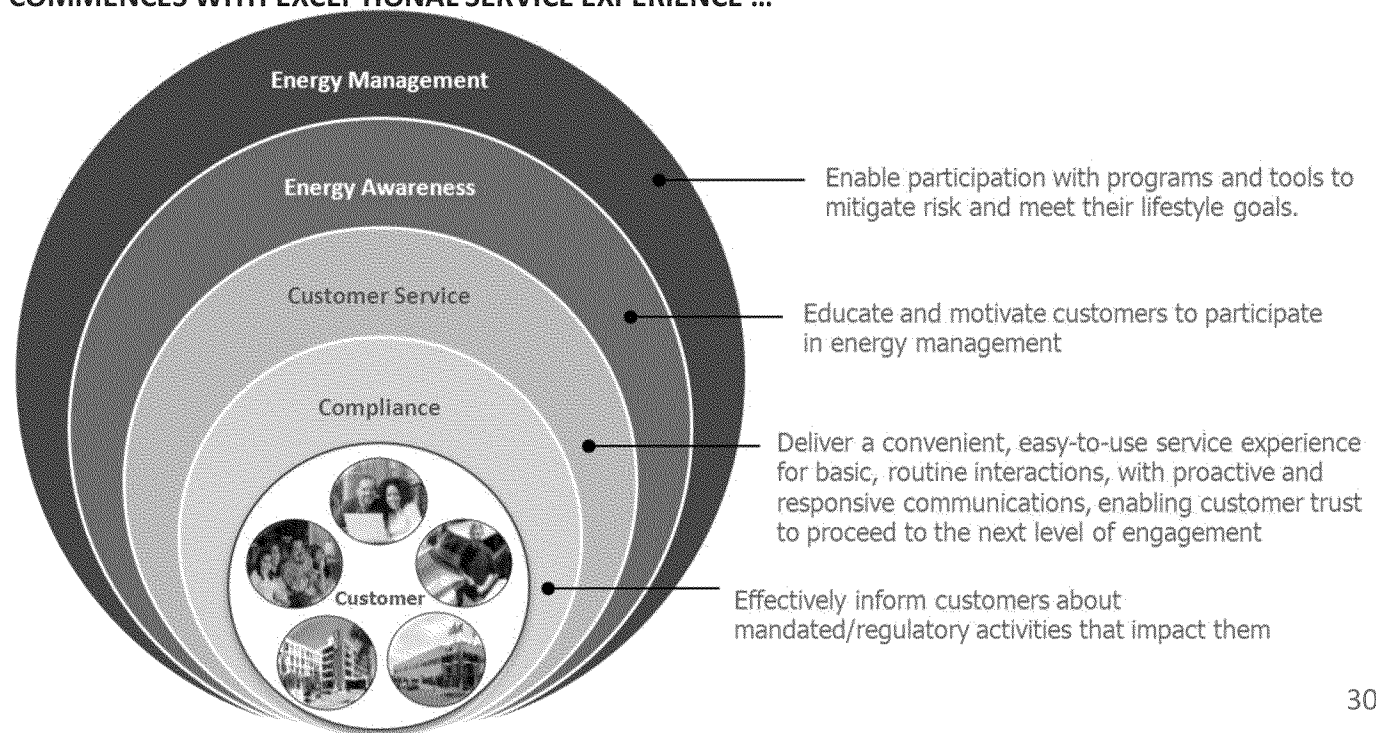
## AN ENGAGED CUSTOMER ...



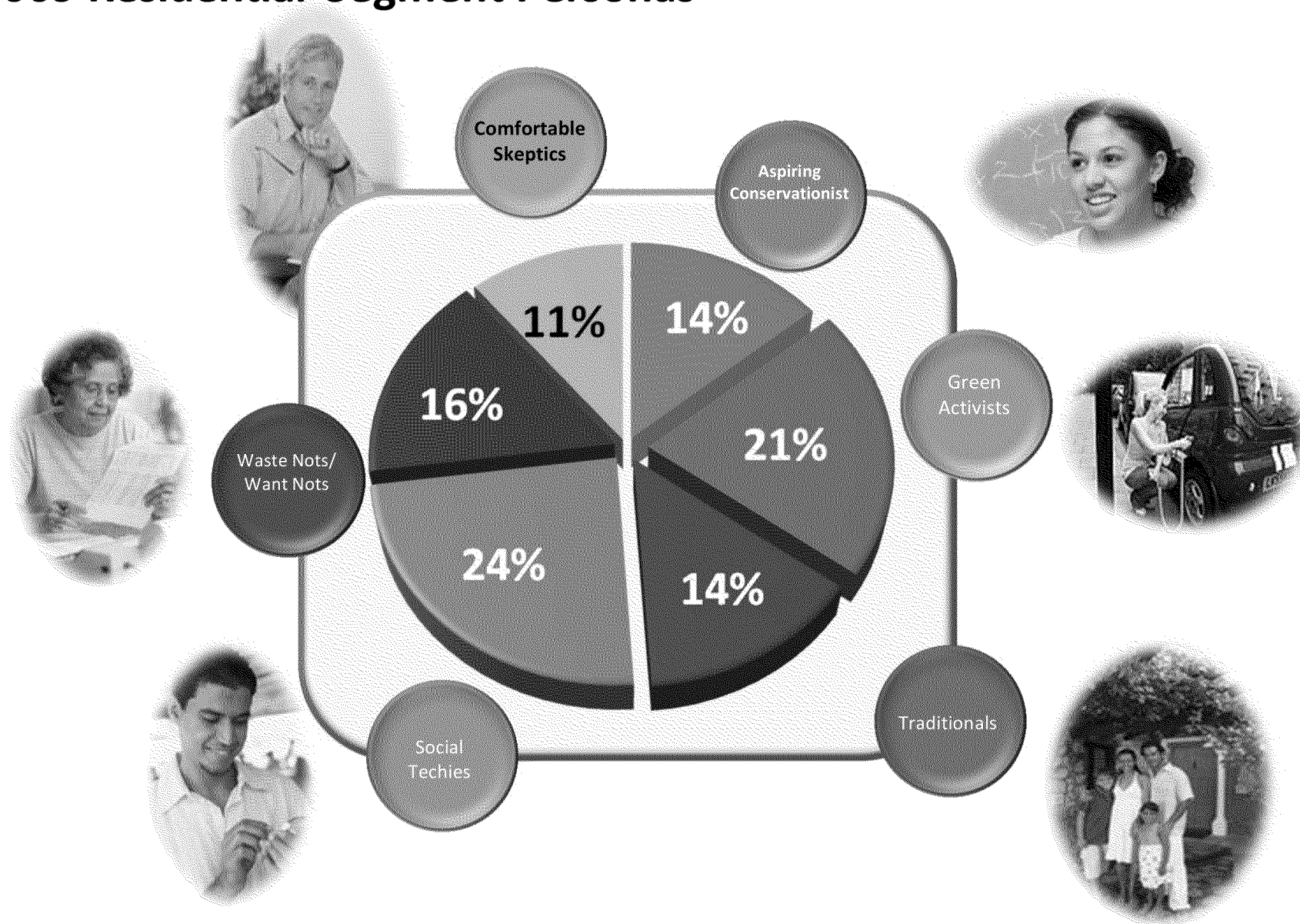
## PATH TO ENGAGEMENT COMMENCES WITH EXCEPTIONAL SERVICE EXPERIENCE ...

### FOCUS:

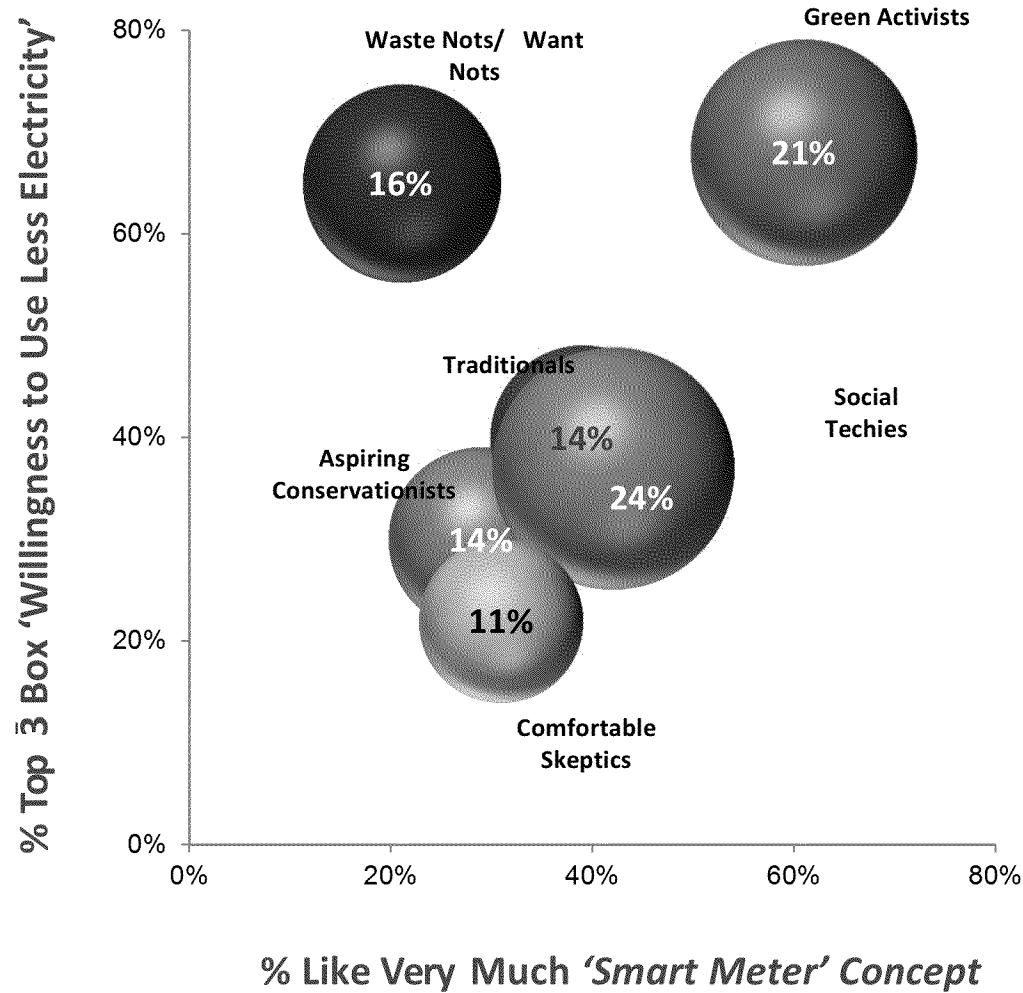
Achieving the highest level of customer satisfaction driving increased engagement and making the customer experience easy and convenient



# 2009 Residential Segment Personas



# Smart Meter Concept vs. Willingness to Conserve



Bubble size proportionate to size of segment

"Living a green lifestyle is a major priority in my life. I actively pursue ways to make the environment safer and feel it my duty to give information to others less knowledgeable. I will do whatever it takes for energy conservation."

"While I use the internet to pay bills and bank online, I don't usually adopt new technologies very quickly."

"I love having the latest and greatest technology. I couldn't survive without my Blackberry! I know I could be doing more to help the environment."

"I regularly engage in activities to help the environment. My finances can be tight so I try to use less electricity. I don't think technology has made my life any easier and prefer to do things the 'old-fashioned' way"

"I want to do more for the environment, but sometimes other commitments or the inconvenience of it gets in the way. I want others to recognize me for my 'green' lifestyle."

"I'm entitled to the energy I use because I pay for it. Efforts at conservation require too much sacrifice and anyway, one person can't make a difference. Besides, global warming is a myth."

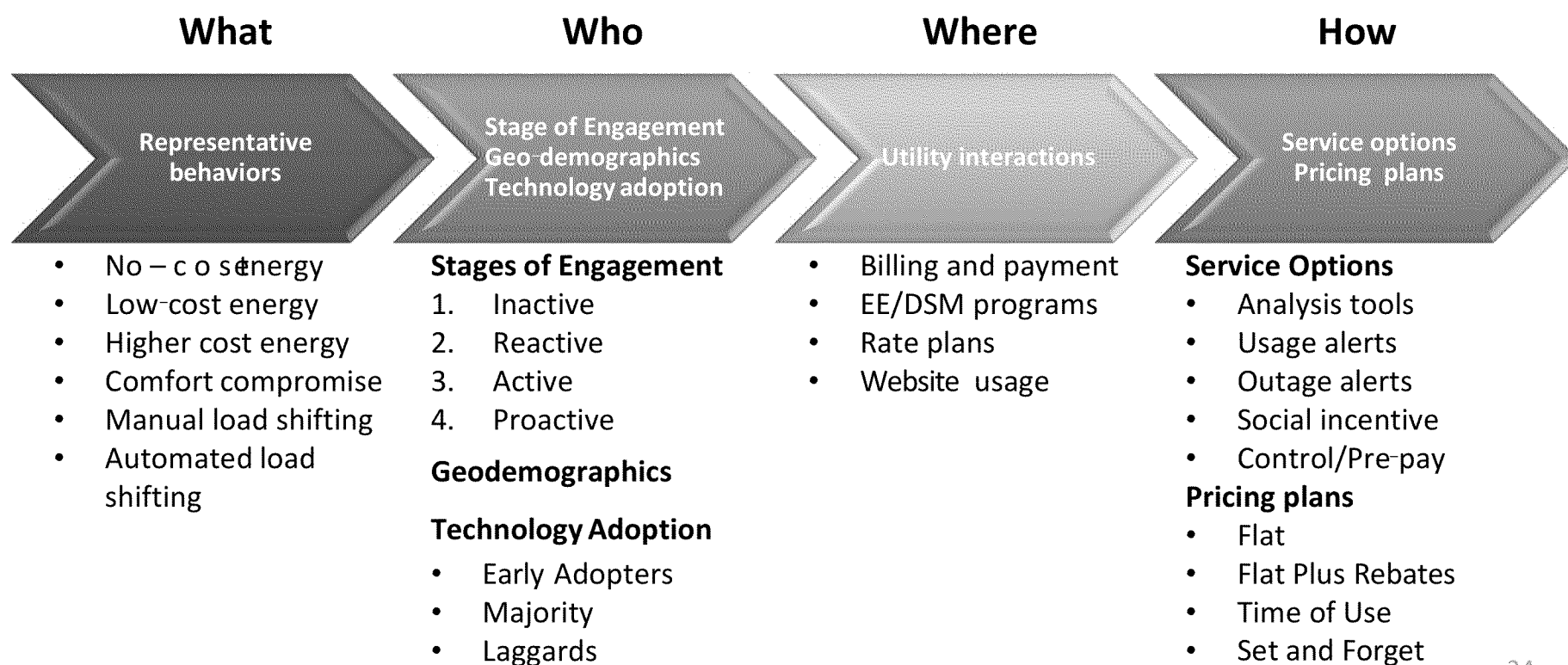


## Segmentation Objectives

- Understand motivations for engagement with Smart Energy products and services through stages of awareness, understanding and change.
- Determine actions that different consumers will take to change their energy consumption
- Identify demographic segments that will help us understand our customers' current and future perceptions, attitudes and behaviors toward:
  - Technology Adoption
  - Demand side management
  - Electric Transportation
- Develop groundwork for testing consumer education *messaging, channel and programs and service* preferences in a post Edison SmartConnect™ deployment era
- Provide capability to “score” our customer database with segment membership

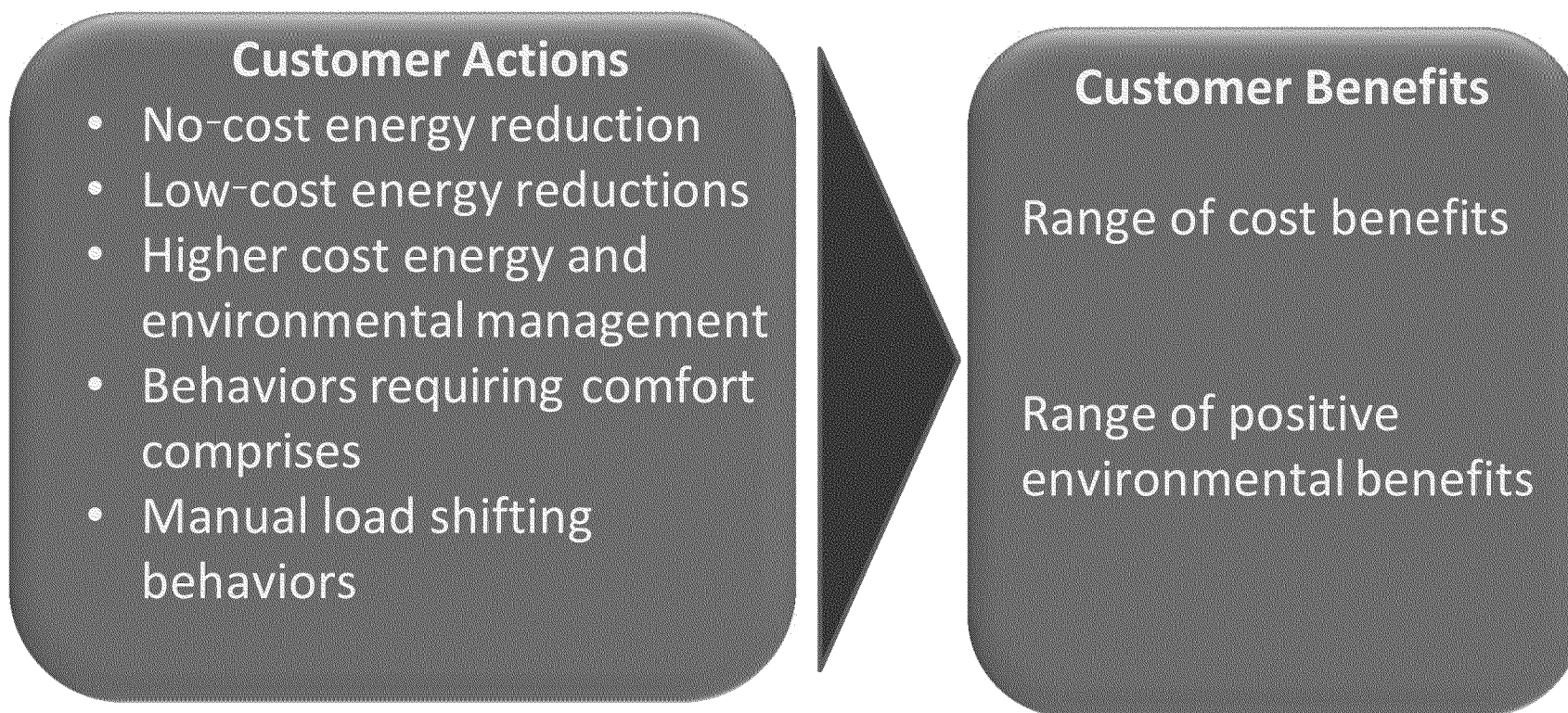
# 2011 Smart Energy Consumer Behavioral Segmentation

- Segments are based on Discrete Choice Modeling of
  - Behaviors
  - Engagement strategies
- Developed consumer profiles and tested engagement solution preferences characterized by:



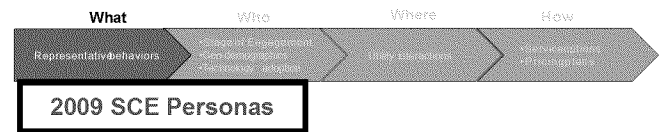
## Energy Management and Control Behaviors

- Led through series of trade-off choices.
- Each segment described in terms of most distinguishing characteristic behaviors.



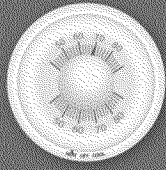

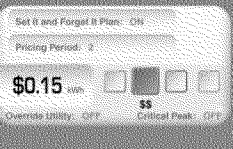
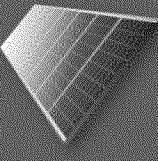


## Stages of Engagement combine behavior, attitude & psychographics

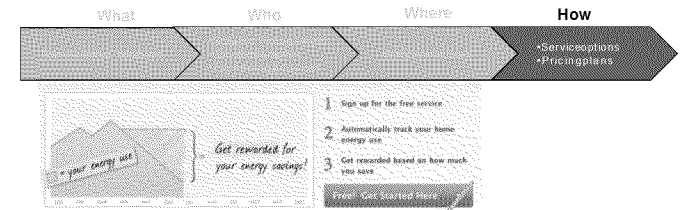
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Increasing Readiness</p>	<ul style="list-style-type: none"> <li>• <b>Stage 4: Proactive</b></li> </ul>	<p><b>16%</b></p>	<ul style="list-style-type: none"> <li>• <b>Habitual</b></li> <li>• <b>Habitual</b></li> <li>• <b>Frequent</b></li> <li>• <b>Yes</b></li> <li>• <b>Strong</b></li> <li>• <b>Avid</b></li> </ul>	<ul style="list-style-type: none"> <li>Participation in past / current utility programs</li> <li>Green consumer behavior</li> <li>Utility online account holder / active user</li> <li>Solar PV owner</li> <li>Environmental principles</li> <li>Mobile Internet technology user</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Stage 3: Active</b></li> </ul>	<p><b>28%</b></p>	<ul style="list-style-type: none"> <li>• <b>Occasional</b></li> <li>• <b>Occasional</b></li> <li>• <b>Infrequent</b></li> <li>• <b>No</b></li> <li>• <b>Moderate</b></li> <li>• <b>Moderate</b></li> </ul>	<ul style="list-style-type: none"> <li>Participation in past / current utility programs</li> <li>Green consumer behavior</li> <li>Utility online account holder / active user</li> <li>Solar PV owner</li> <li>Environmental principles</li> <li>Mobile Internet technology user</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Stage 2: Reactive</b></li> </ul>	<p><b>40%</b></p>	<ul style="list-style-type: none"> <li>• <b>Seldom</b></li> <li>• <b>Seldom</b></li> <li>• <b>Infrequent</b></li> <li>• <b>No</b></li> <li>• <b>Ambivalent</b></li> <li>• <b>Moderate</b></li> </ul>	<ul style="list-style-type: none"> <li>Participation in past / current utility programs</li> <li>Green consumer behavior</li> <li>Utility online account holder / active user</li> <li>Solar PV owner</li> <li>Environmental principles</li> <li>Mobile Internet technology user</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Stage 1: Pre-Active</b></li> </ul>	<p><b>16%</b></p>	<ul style="list-style-type: none"> <li>• <b>Never</b></li> <li>• <b>Never</b></li> <li>• <b>Never</b></li> <li>• <b>No</b></li> <li>• <b>Opposed</b></li> <li>• <b>Laggard</b></li> </ul>	<ul style="list-style-type: none"> <li>Participation in past / current utility programs</li> <li>Green consumer behavior</li> <li>Utility online account holder / active user</li> <li>Solar PV owner</li> <li>Environmental principles</li> <li>Mobile Internet technology user</li> </ul>



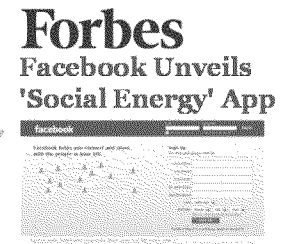
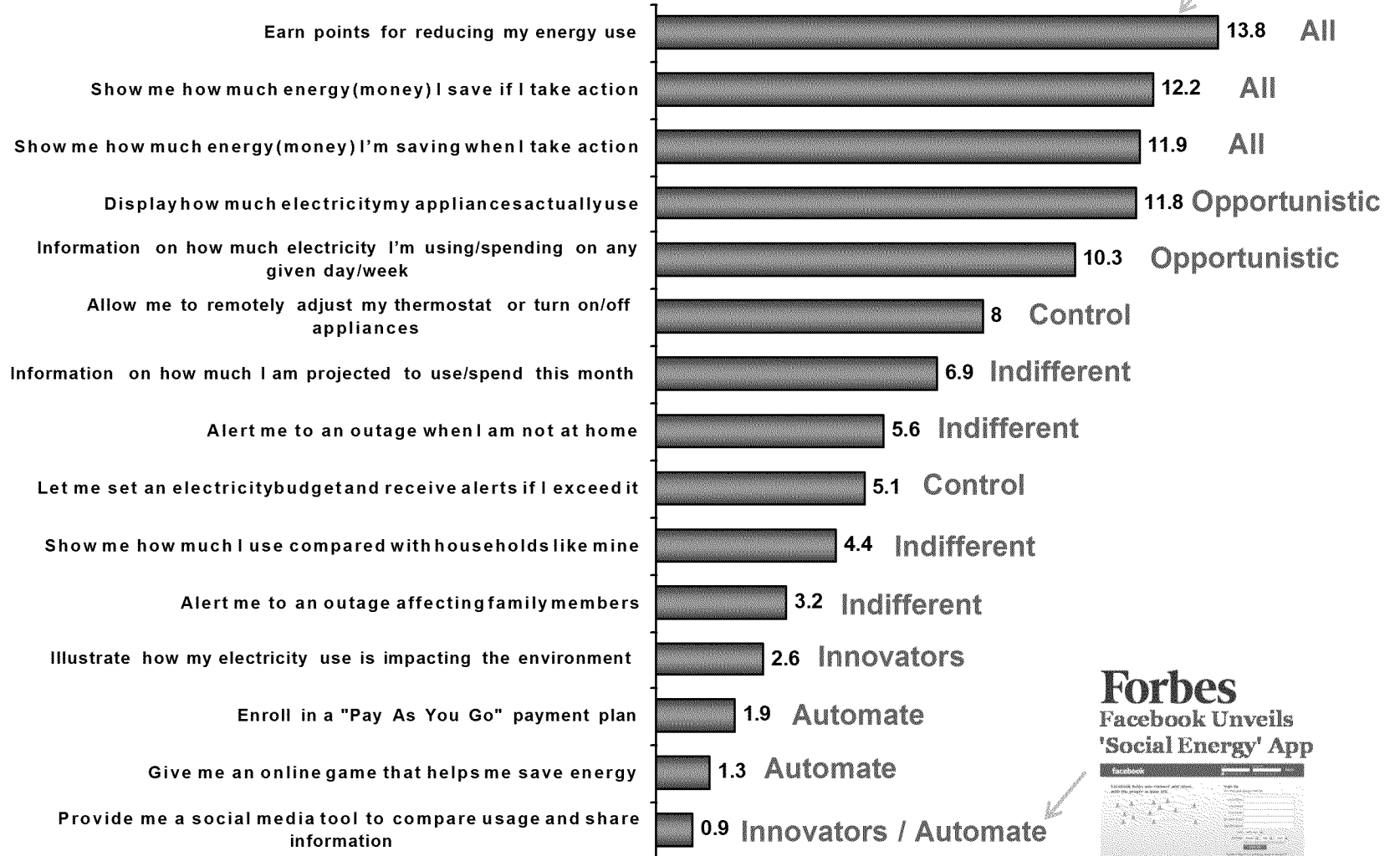
# 2011 Smart Energy Consumer Segmentation

	 <b>Indifferent</b> 7%	 <b>Novice</b> 14%	 <b>Control</b> 17%	 <b>Opportunistic</b> 30%	 <b>Automate</b> 18%	 <b>Innovator</b> 14%
<b>What</b>	Will NOT take actions	Will take no-cost actions (like lowering the water heater temperature); need education on what to do	Will proactively manage the thermostat	Will take low-cost measures (such as CFLs) that add up to savings	Will authorize utility to remotely manage energy use	Will invest in high-efficiency new appliances (including solar); already taking smaller actions
<b>Who</b>	Stage of Engagement: 1 Male, smaller family, less educated, smaller town Tech: Late majority/Laggards	Stage of Engagement: 2 Less-affluent female Tech: Late majority/Laggards	Stage of Engagement: 2 Female, smaller home/HH size, less-affluent, more suburban Tech: Early Majority	Stage of Engagement: 2 More-affluent female, higher education Tech: Early Majority	Stage of Engagement: 3 Urban renter Tech: Innovators/Early Adopters	Stage of Engagement: 4 More-affluent male in larger household / home Tech: Innovators/Early Adopters
<b>Where</b>	Check/in-person payment users	<i>Nothing discernible</i>	E-payment users	Automated debit users	Website account users	Energy-efficiency program users
<b>How</b>	Outage Alerts Flat Rate	Show me how much energy (money) I could save if I take an action Flat Rate Plus Rebate	Earn points for reducing my energy use Flat Rate Plus Rebate	Display how much electricity my appliances actually use Time-of-Day Rate	Enroll in a "Pay As You Go" payment plan Set It and Forget It	Illustrate how my electricity use is impacting the environment Set It and Forget It
	<b>Comfortable Skeptic</b>	<b>Aspiring Conservationist</b>	<b>Traditionalists, Waste Not/ Want Not and few others</b>		<b>Social Techies</b>	<b>Green Actives</b>

# Smart energy service plan preferences



## Smart Energy Service Plan Features





## Indifferent Segment (7%)

People that are not currently participating in any utility programs.

They want to be left alone and continue their current behaviors in terms of energy usage.

### Behavioral Characteristics

- No Action: The potential benefits of changing behavior are not worth the reduced comfort and convenience
- No Action: The potential bill savings are not worth changing behavior
- No Action: The potential environmental impact reduction is not worth changing behavior

### Utility Interactions

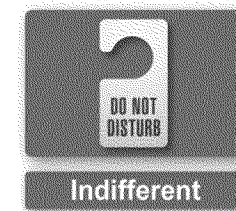
- Current programs: Lowest enrollment
- Past programs: Lowest participation
- Usage: Higher usage
- Website usage: Lowest usage
- Payment method: In person

### Knowledge and Understanding

- Highest “Not at all familiar” with smart grid (36%)
- Highest “Very Familiar” with smart meter (8%)
- Benefits of smart meter: *“none to me, lots to Edison they will be able to track usage and then alter rates to match usage”*
- Concerns of the smart meter: *“Too much information about me being collected”*

### Engagement Level

- 56% Pre-Contemplation (Stage 1)
- 38% strongly agree it is their right to use as much energy as they wish.
- Do not believe in global warming
- Lowest scores/percentages to every question



# Indifferent Segment

## Technology Adoption

- 59% Late majority/Laggards
- Lowest count of high tech appliances (smartphone, HDTV, PC, tablet)
- 40% CFL lighting

## Service Offering Preferences

- Alert me to an outage when I am not at home
- Information on how much I am projected to use/spend this month
- Show me how much I use compared with households like mine

## Pricing Plan Preferences

- 41% Flat-rate plan

## Geo-Demographics

- Own: 70% (2<sup>nd</sup> highest)
- Home type: highest SF detached (53%)
- Urban/Rural: Rural/Suburban
- Age: Older (median of 56)
- Gender: 66% male
- Race: 76% Caucasian
- Education: 20% advanced degree

## Customer Satisfaction

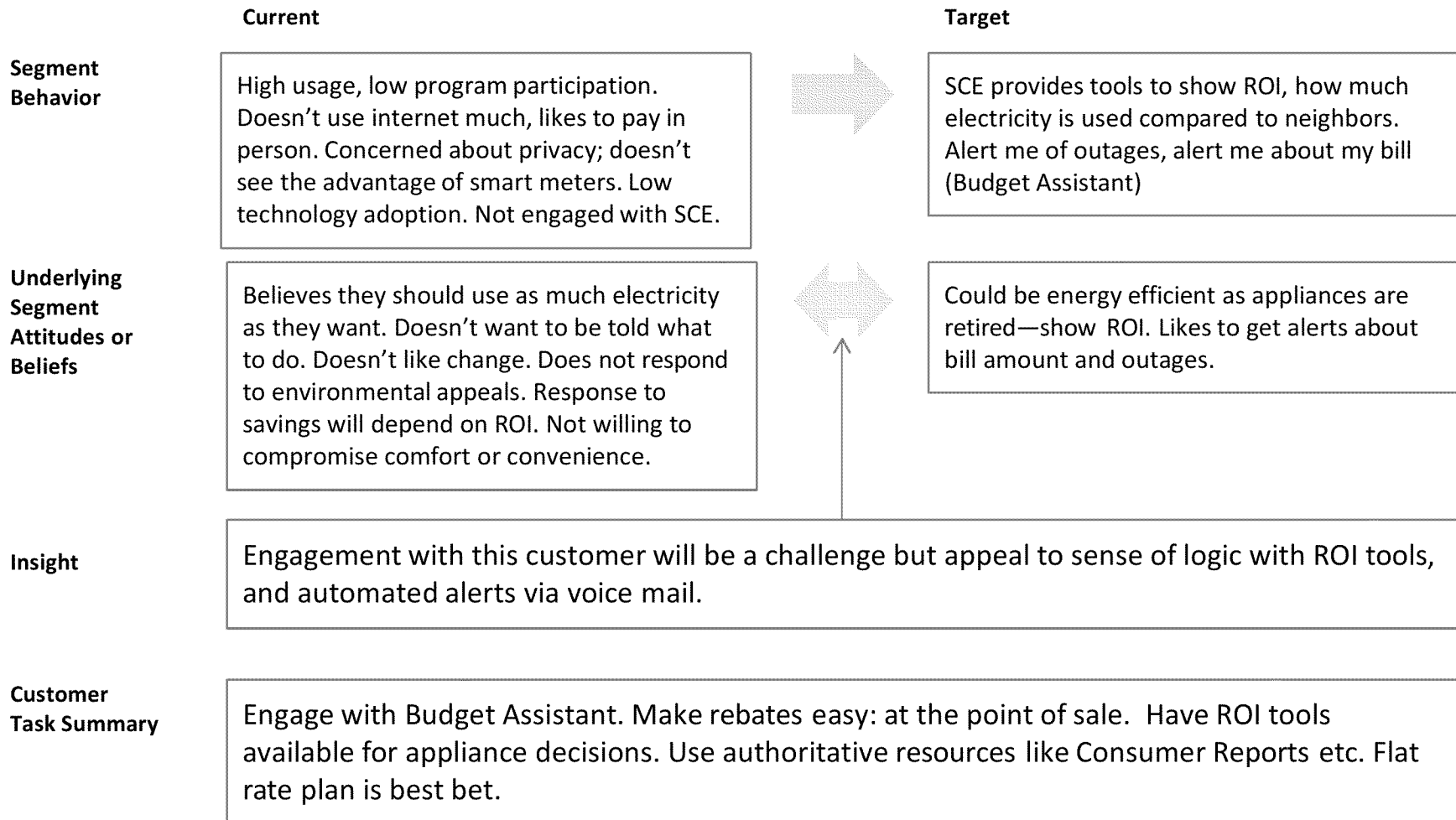
- Lowest satisfaction scores



# Applying Segmentation to Strategy: Indifferent Segment



**Business challenge:** Can we show this segment ROI for every action in order to garner participation?



# Identifying Key Customer Segments and Building Packages

- Four key segments emerge from smart energy behavioral segmentation and personas: Comfort, Saver, Green, Tech-Savvy.
- Income Qualified address a key customer group based on eligibility criteria.
- Bundling offerings that appeal to customer segments.

	Comfort	Saver	Green	Tech-Savvy	Income Qualified
Energy Use Behavior Segment SCE Persona	Indifferent Comfortable skeptic	Control/Oppportunistic Traditionalists/Waste Not Want Not	Innovator Green Active	Automate Social Techie	May cross multiple personas (may include Novice, aspiring conservationists / waste not want nots)
Energy Use Behavior	Want to be left alone and continue to do their current behaviors in terms of energy usage. Currently do not participate in utility programs.	Will proactively manage the thermostat and / or take low-cost measures that add up to savings	Will invest in high- efficiency new appliance (including windows, solar, A/C unit). Almost always programs the thermostat.	Will authorize utility to remotely manage energy use (ie: adjust thermostat & A/C Unit)	(Novice = will take no-cost actions such as lowering heater temperature)
Technology Adoption	Late majority/Laggards	Early Majority	Early Adopter High tech appliances – smartphone, HDTV, PC, tablet	Early Adopter High tech appliances – smartphone, HDTV, PC, tablet	(Novice = Late majority / Laggards)
Service / Program Preferences	• Outage alerts	• E-Payment / Auto Debit • Appliance usage info • Budget Assistant / Alerts • Display how much electricity their appliances use • Daily/weekly energy use information	• EE Rebates • Utility website use • Remotely adjust thermostat • Outage alerts • Info on how usage is impacting the environment	• Utility website use • AC/WH Cycling • Energy Audit • Show how much money they can save by taking action • Pay As You Go payment plan • Online energy saving game • Social media tools compare usage	Have had participation in: • My Account • Online Billing • Online Payment • Medical Baseline • Energy Savings Assistant Program (aka EMA)
% SCE Customer Base (based on JD Powers behavior segment) Total SCE customers approx 4.2 mill	7%	47%	14%	18%	14% CARE/FERA = 1.4 mill (33% of customer base)

\*Source: SCE Market Research Lifestyle Package Customer Program Participation (CARE / FERA Customers), October 2011.

\*\* Source: J.D. Power Smart Energy Consumer Behavioral Segmentation StudySM, Final Report Briefing, October 21st, 2011.

## Incorporate into SCE Customer Relationship Approach: Offer Management

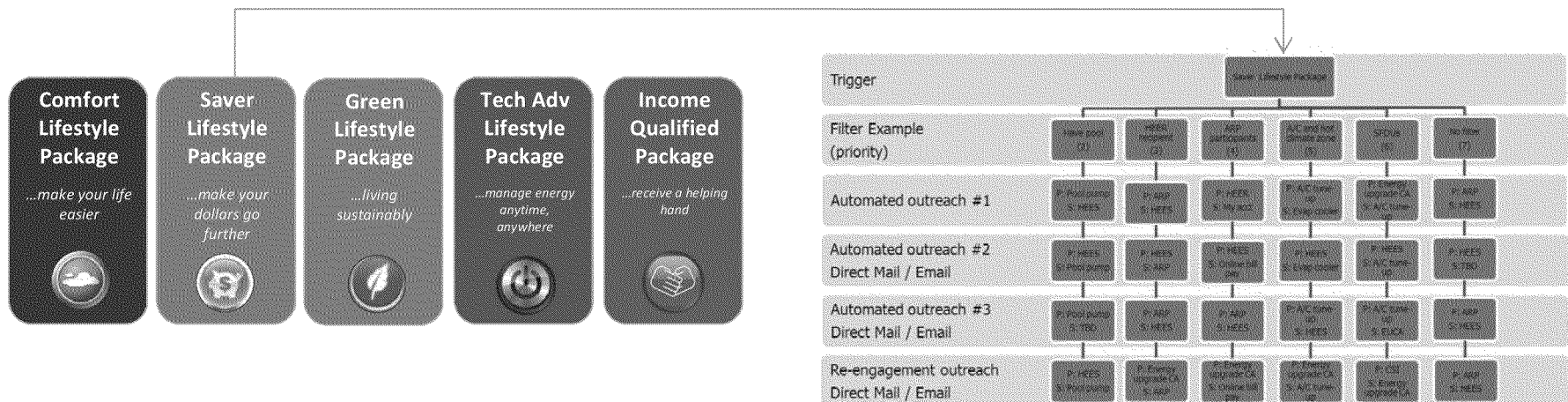
- Lifestyle Packages

- Primary objective: simplified choices for enrollment and participation in programs and services
- Customers actively participate in the lifestyle packages that best suits them (raise hand)
- Bundles DR programs and self-service tools

- Trigger Marketing

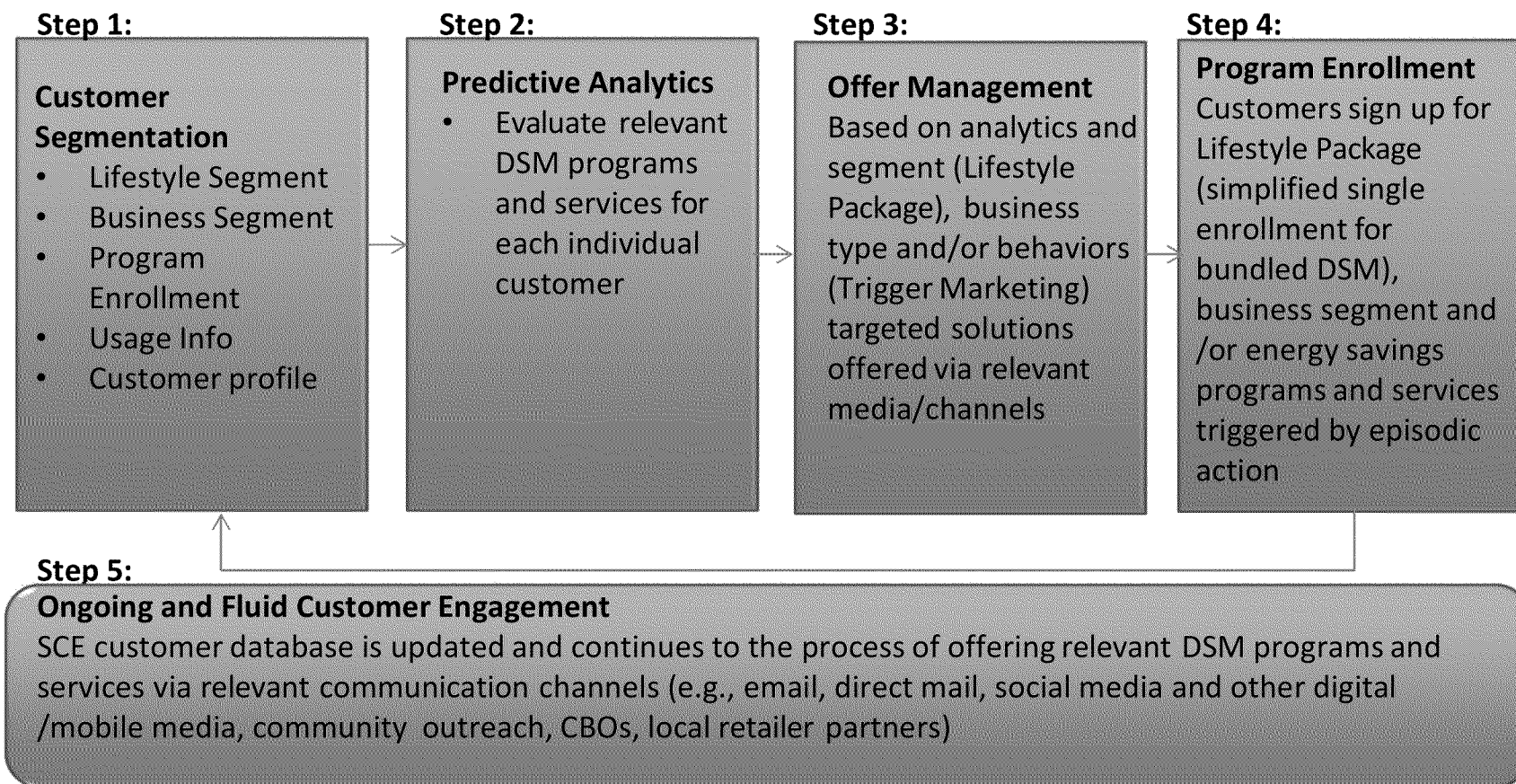
- Primary objective: leverage momentum of handraisers with prescribed messages on hot leads for participation in programs and services
- Customers can actively or passively trigger an event that initiates a communication curriculum
- Bundle EE episodic programs and self service tools

Trigger marketing can be used with Lifestyle Packages to cross sell additional programs and services



## Next Steps

- Score customer database
- Build algorithm “next best offer
- Expand offer management pilot



# Segmentation Overview – P G & E

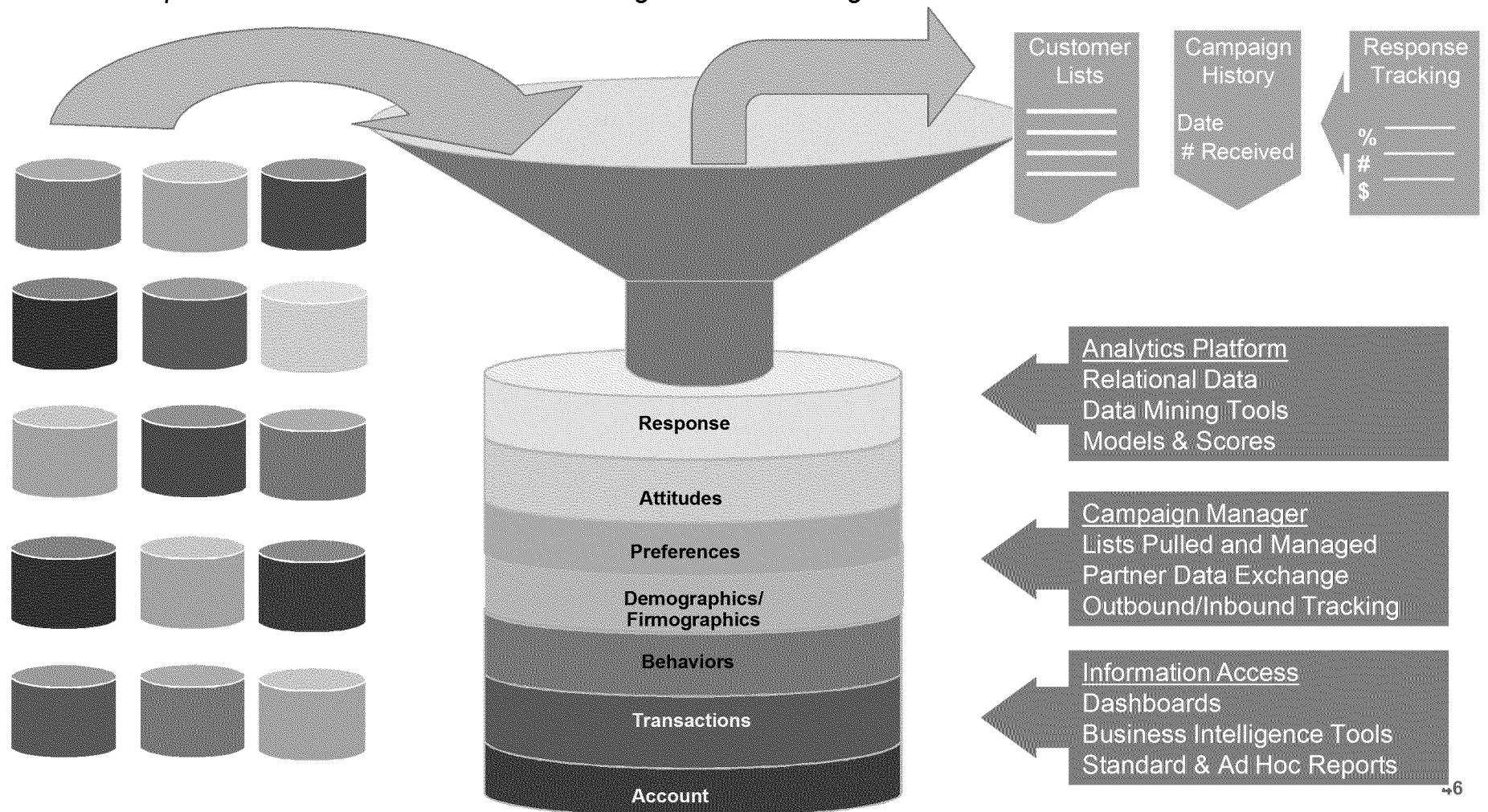




# Customer Analytical and Segmentation (CAS) Database

The technology system holds, connects, collects & manages data

- Data is clean and connected at the customer level
- Provides a holistic view of the customer info, history, responses, scores
- Closed-loop so customer interaction results in greater knowledge





# Residential Segmentation Framework

## Attributes

(Energy Needs, Account Needs, Attention Needs)

Higher Income / Large Homes

Non-Temperate Climate

Multiple Accounts

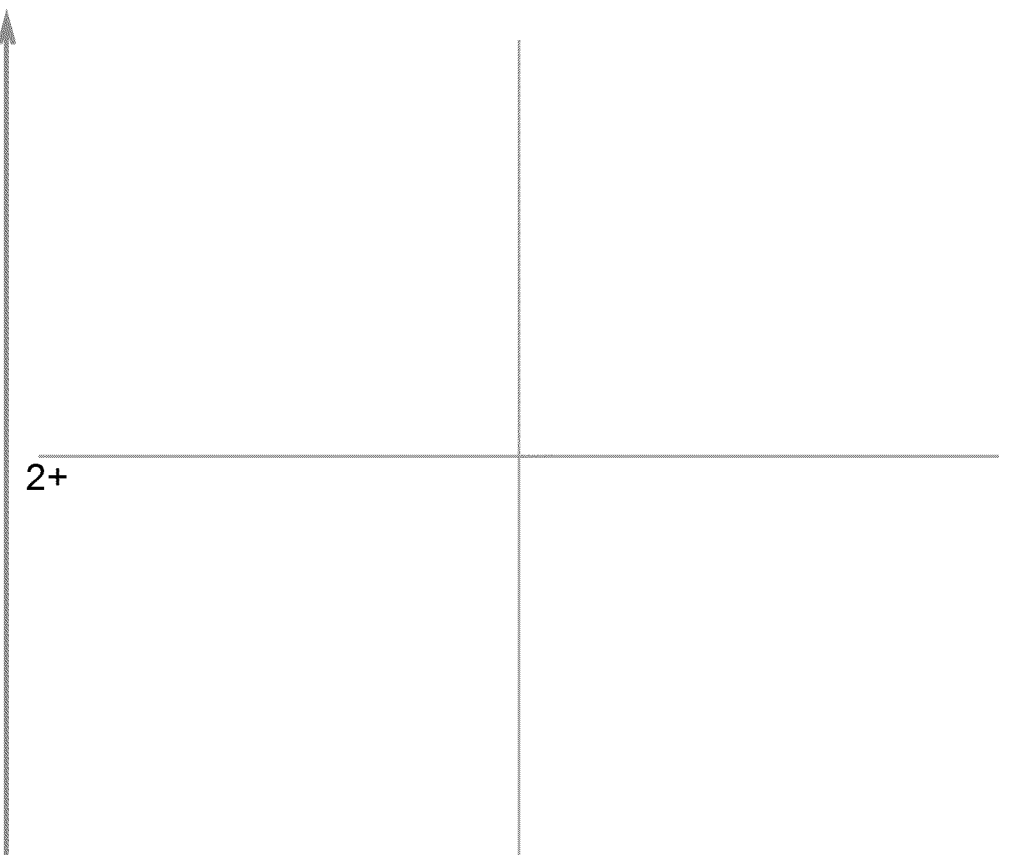
Multiple Payment Methods

Missed 20% Payments P12M

Life Support / Medical

Help Tickets (2+ P12M)

Field Activities (2+)



## Engagement (Programs, Interactions, Automation)

BPP

Rebate

Specific Rate Plan

CARE

ClimateSmart

Web Registered

FERA

Involved Pay- Auto/OEP/EFT

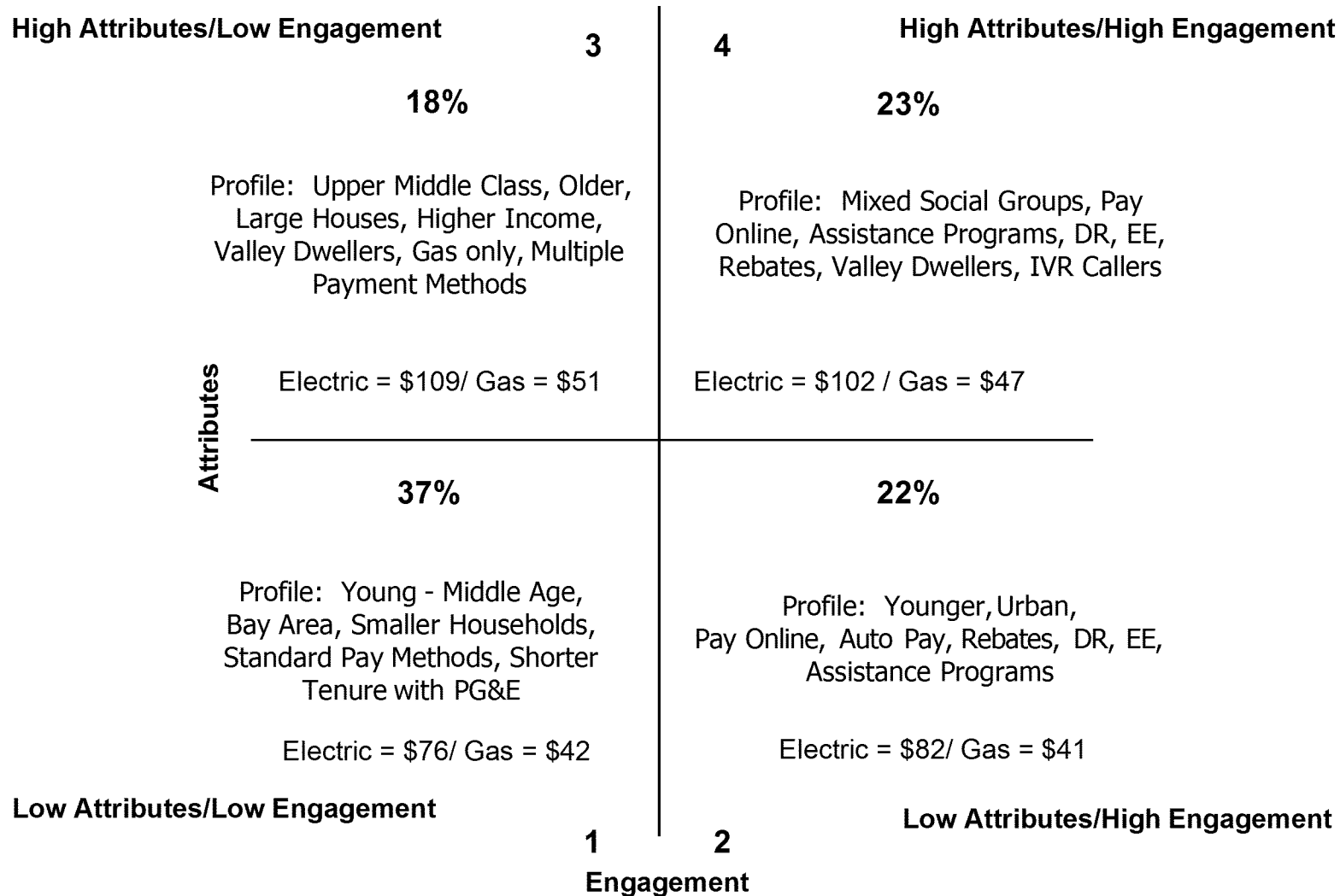
IVR (2+ calls)

REACH

Demand Response



# Residential Segments







# Residential Clusters/Personas

## Attributes

(Energy Needs, Account Needs, Attention Needs)

Higher Income / Large Homes

Non-Temperate Climate

Multiple Accounts

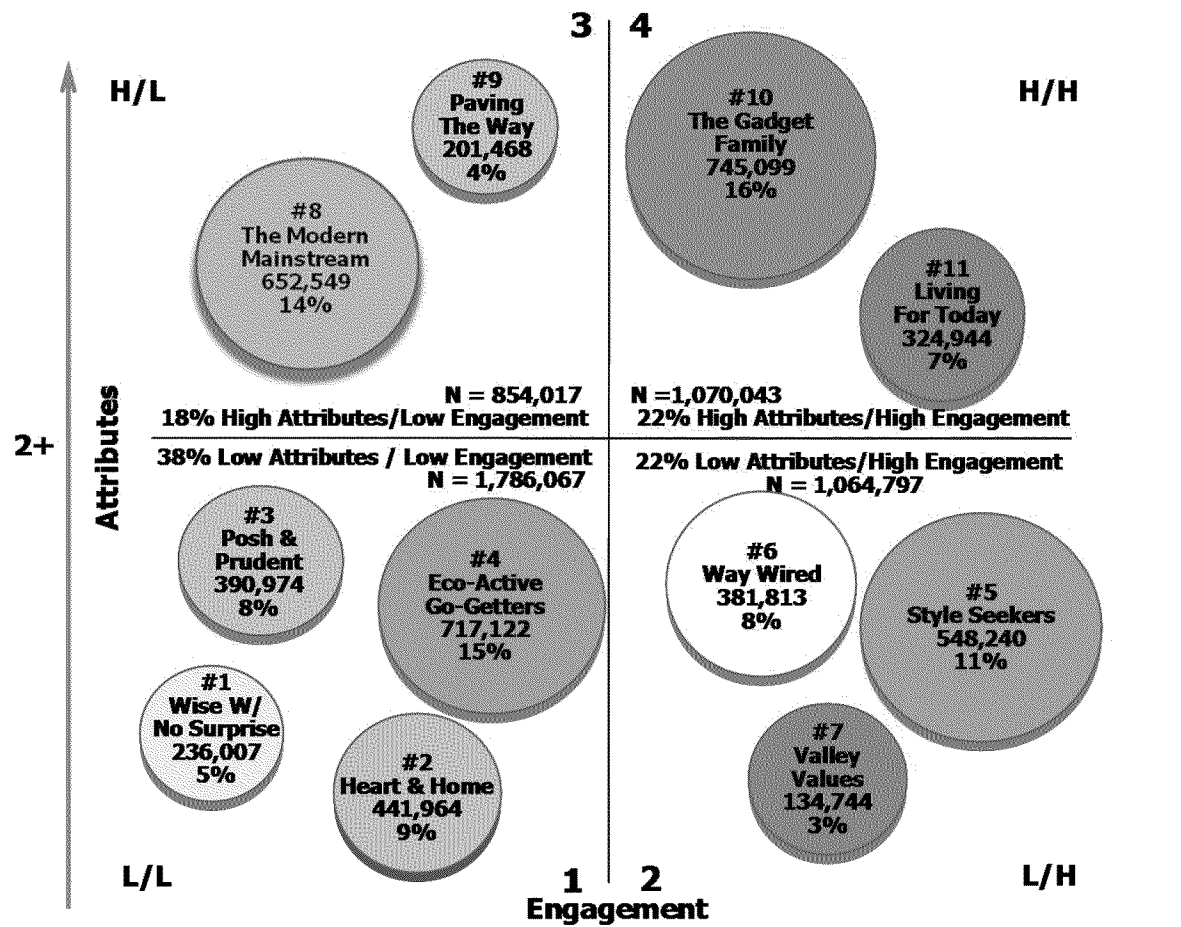
Multiple Payment Methods

Missed 20% Payments P12M

Life Support / Medical

Help Tickets (2+ P12M)

Field Activities (2+)

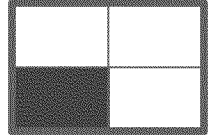


## Engagement (Programs, Interactions, Automation)

BPP	Rebate	Specific Rate Plan
CARE	ClimateSmart	Web Registered
FERA	Involved Pay- Auto/OEP/EFT	IVR Other (2+ calls)
REACH	Demand Response	



# Cluster #4: Eco-Active Go-Getters



## **Demographics** (717,122 customers)

- Higher Income: \$70k+
- Higher Education: College +
- Less Hispanic and African American
- More likely to be Asian
- Moderately More Professional Occupations
- Higher Home Market Values
- More Temperate/Coastal Climate (Areas 1,2,3)

## **Lifestyle**

- Content/Happy
- Career Driven & Financially Savvy
- Technically Savvy (Gadgets, Internet)
- Community/Environment Focused
- Unconventional Mindset
- Active & Experiential (Exercise, Outdoors)
- Cultured Consumer (Wine, Gourmet, Travel, Art)
- Frequent Traveler (Business & Leisure)

## **Utility Factors**

- Visited pge.com
- Pay Bill through multiple electronic methods (was Auto Payers)
- Larger Homes
- Higher Bills
- Both Electric & Gas

## **Green Aware**

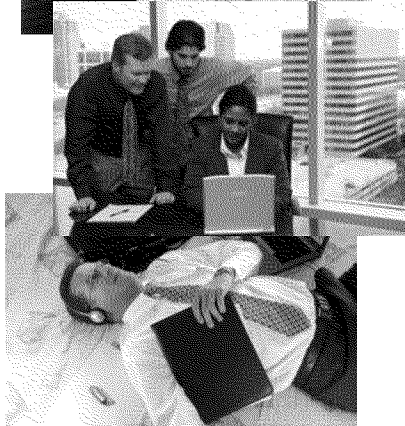
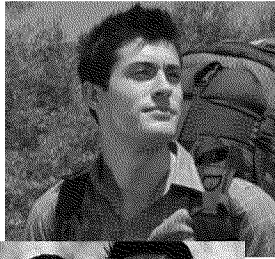
- Behavioral Greens – 68%
- Think Greens – 17.7%
- Potential Greens – 10%
- True Browns – 4.1%

## **Fun Facts**

- 14% Completed Graduate School
- More Than Half Have A Home Valued at \$500k+
- 41% Are Registered Democrats
- 64% Say They Actively Seek Out News



## Cluster #4: Eco-Active Go-Getters



I work hard – some people might say too hard, but I enjoy what I do. I am driven to succeed and believe you should seize all opportunities in life. **My career is an important part of how I define myself and I do like others to think that I am successful.**

But life isn't just about work – I want to feel that my existence has given back to the world in some way. **I am a bit of an altruist and I am more than willing to volunteer for a good cause. I believe it's everyone's duty to recycle, that pollution should be banned, that product packaging should all be recyclable and that companies should act ethically.** From a human rights perspective, I believe in equality for all, in respect for all customs and beliefs and enjoy learning about other cultures.

**I'm very technical and the Internet has had a major impact on how I work.** But I also just enjoy technology. I can easily get lost for a couple hours wandering through Best Buy just looking at the different gadgets. **I'll pay anything for the electronics that I want and I keep up with technology developments in general. I also spend a lot of time online, visit a variety of different web sites and use web applications like streaming video.**

**If I'm not at work or on the Internet, I like to keep physically active and enjoy the best of life.** I like to spend time experiencing and understanding the nature that is all around me. I'll exercise regularly and go outdoors hiking and camping. I'm also a cultured consumer and enjoy art museums, the theater, gourmet foods, wine and international travel.

**From a utility perspective, I like to automate my transactions online whenever possible. I live in a larger home with a higher utility bill and can afford the costs but am also environmentally conscious – so I might be interested in environmental technologies to make my home more energy efficient.**



# Residential Segments – 2008 vs. 2011

**PG&E customers have changed their interaction with PG&E since 2008**

Not only have more customers become engaged, but also there is greater engagement within the “engaged” segments

	Low Attributes/ Low Engagements		Low Attributes/ High Engagement		High Attributes/ Low Engagement		High Attributes/ High Engagement	
	2008	2011	2008	2011	2008	2011	2008	2011
Size	2,416,936	1,786,067	514,313	1,064,797	1,268,391	854,017	690,397	1,070,043
	49%	<b>37%</b>	11%	<b>22%</b>	26%	<b>18%</b>	14%	<b>23%</b>
Description	Younger, Bay Area, Smaller HHs, <b>Conservative,</b> Standard Pay Methods	<b>Mid. Age,</b> Bay Area, Smaller HHs, Standard Pay Methods, <b>Shorter Tenure with PG&amp;E</b>	Younger, Urban, Auto Pay, Rebates	Younger, Urban, Auto Pay + <b>other online tools,</b> Rebates <b>DR, EE, Assistance Programs</b>	Upper- Middle Class, Older, <b>Rural,</b> Large Houses, Gas Only	Upper- Middle Class, Older, <b>Central Valley,</b> Large Houses, Gas Only	Mixed Social Groups, <b>Pay by Phone,</b> Assistance Programs	Mixed Social Groups, <b>Pay Online,</b> Assistance Programs <b>DR, EE, Rebates,</b>
Average Electric Bill	\$82	\$76	\$90	\$82	\$123	\$109	\$132	\$102
Average Gas Bill	\$46	\$42	\$50	\$41	\$48	\$51	\$55	\$47

**Changes from 2008 to 2011**

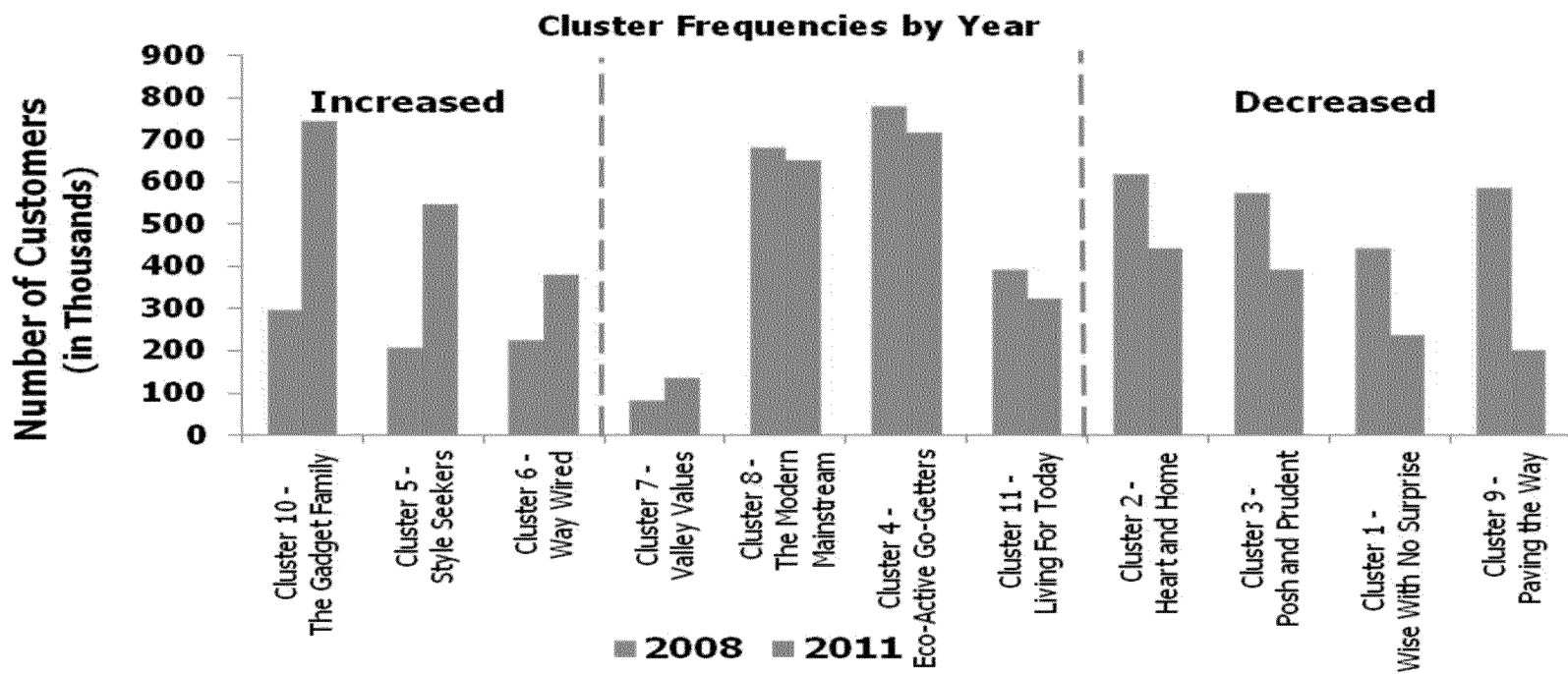


# Cluster Changes 2008 & 2011

Evaluation of the customer cluster changes between 2008 and 2011 further illustrate that customers are becoming more engaged

- Engaged clusters have become larger since 2008 (Cluster 5, 6, & 10)
- Low Engaged clusters have become smaller since 2008 (1, 2, 3 and 9)

The most sizeable shift in customer sizes have occurred in the high attributes clusters (9 and 10)





# 2008 vs. 2011 Cluster Changes

**Most of the engaged clusters show signs of becoming even more engaged**

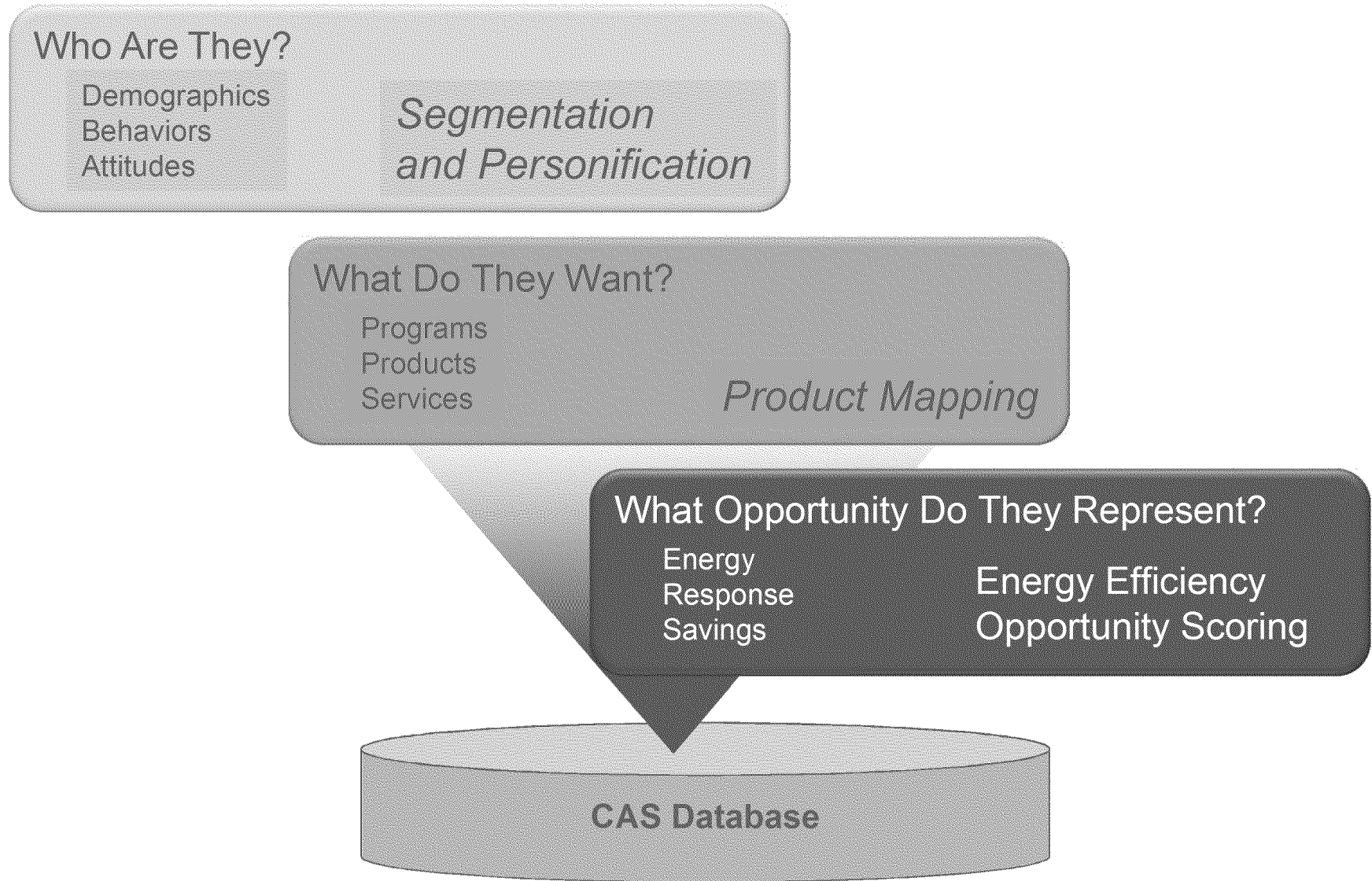
- Assistance programs are being leveraged across all low income clusters
- Online engagement (electronic billing / payments and visiting PGE.com) are being leveraged more broadly across all clusters

**Customer distribution and demographic changes in clusters 9 and 10 suggest that customers in cluster 9 may be migrating to cluster 10**

Changes in Cluster Profiles between 2008 and 2011								
Cluster	Age	Income	Assistance Programs	DR / EE Programs	Rebates	On-Line Usage	IVR Caller	Missing Payments
#1 Wise w/ No Surprise	Older	Moderate						
#2 Heart and Home	Older	Low	+					
#3 Posh and Prudent	Middle - Older Age	All	-		-		-	
#4 Eco-Active Go-Getters	All	High				+		
#5 Style Seekers	Younger	Moderate	+			+		+
#6 Way Wired	All	High		+	+			
#7 Valley Values	Middle - Older Age	Low	+	+	+	+		
#8 The Modern Mainstream	Older	High						
#9 Paving the Way	All	Moderate (was Low)						
#10 The Gadget Family	All	Moderate (was High)		+		+		
#11 Living for Today	All	Low	+			+	+	

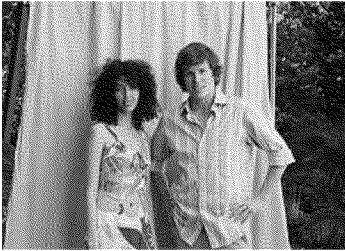





# Customer Insights to Customer Centric Outreach





# Persona Communication Factors

<b>Eco-Active Go-Getters</b>	<b>Style Seekers</b>	<b>Paving The Way</b>	<b>The Gadget Family</b>
			
<b>Tone</b> Optimistic Activist	<b>Tone</b> Playful Simple	<b>Tone</b> Conservative Practical	<b>Tone</b> Modern Communal
<b>Messages</b> Help The Environment Do Your Part	<b>Messages</b> Look Good Be Care Free	<b>Messages</b> Get Ahead Ease The Burden	<b>Messages</b> Enjoy Convenience Enhance Quality
<b>Hot-Buttons</b> Climate Equality	<b>Hot-Buttons</b> Peer Influence Savings	<b>Hot-Buttons</b> Money Progress	<b>Hot-Buttons</b> Family Finances
<b>Channels</b> Internet SMS	<b>Channels</b> Outdoor Magazines	<b>Channels</b> Television In-Store	<b>Channels</b> Internet Mail
<b>Products</b> SmartAC Autopay	<b>Products</b> SmartRate	<b>Products</b> Balance Payment Plan	<b>Products</b> Solar SmartAC



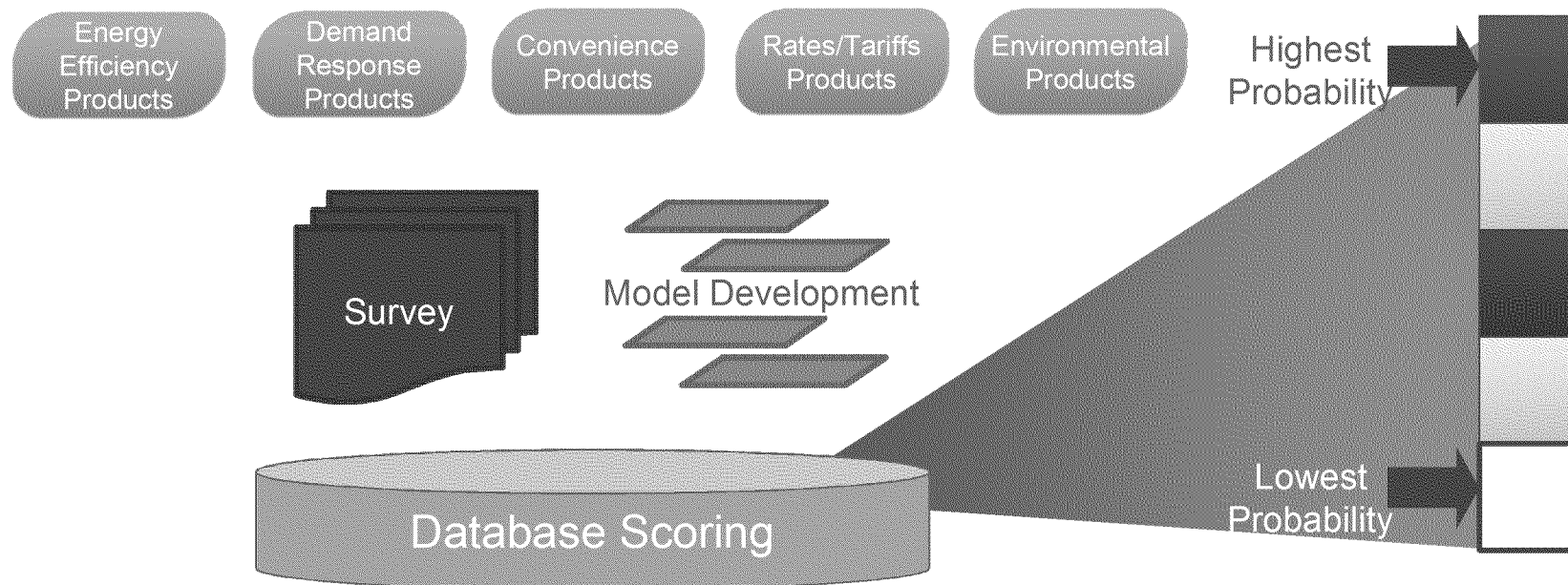


# Residential Product Mapping – Propensity Scoring

Customers have differing levels of intent across products

- Initial set of product scores were chosen to represent range of offerings
- Each customer is scored for each product
- New product scores are being created from new response models

A combination of qualitative and quantitative studies ranked customers based on their propensity to be interested in and use products





# Energy Evaluation Opportunity Score (EEOS)

## Not every residential customer consumes energy equally

- Same home, family, income, climate, etc. and yet energy use is different
- Could be behavioral, inefficient equipment, or more
- Shows where energy is more readily saved

**Energy Evaluation Opportunity Score:** A modeled score applied to each customer on their energy savings opportunity as compared to their peers. If the customer is less efficient than others that look like him/her then there is a larger opportunity to improve their EE behavior.

Both John & Others that look like him have the following characteristics:

**Dwelling:** Single Family Residence

**House Square Footage:** 4000 Sq. Ft.

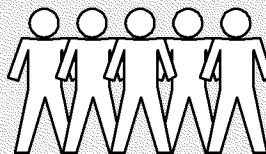
**House Year Built:** 1985

**# of People in Home:** 4

**Climate:** Non-Temperate



John



Others that look like John

But John uses 825kwh/month in Electricity and Others that look like him use 710kwh/month on average:

825

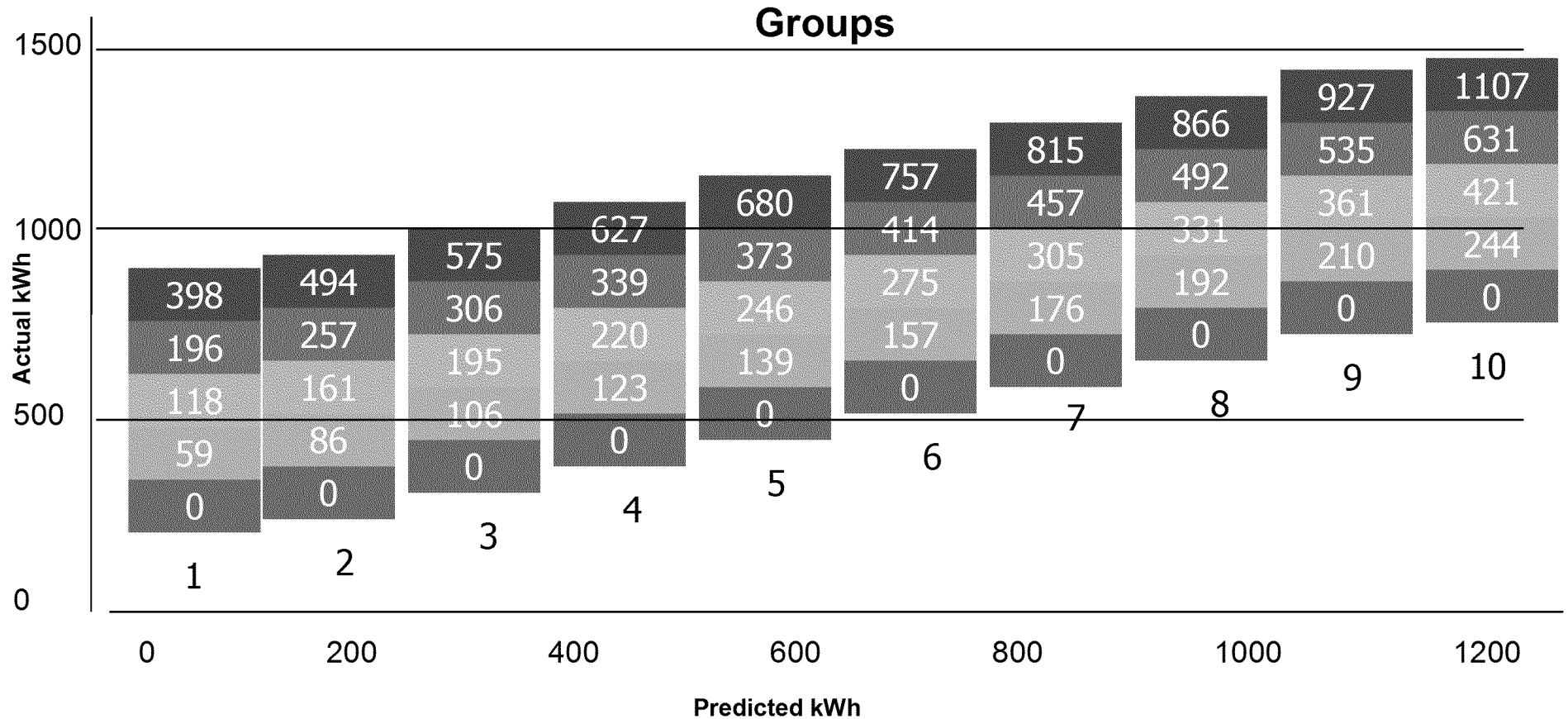
710

He's 115 kWh less efficient than others with similar characteristics. His Score is +115.



# EEOS – Scores by Group & Quintile

The resulting score was assigned to each customer in the CAS database to reflect the degree of energy efficiency that customer represents.





# Residential energy efficiency propensity model highlights customers with high opportunity for energy efficiency

The Residential Opportunity Tool is used by program managers and shared with local governments implementing residential energy efficiency programs

## Hard to Reach Targeting Tool - Energy Efficiency Opportunity Score

version 1.2 updated 4/15/2012 Based on American Community Survey 2010 and Targetbase Energy Efficiency Propensity Model 2009

**Energy Efficiency Opportunity by Block Group**  
 Click to see more - ESC to Reset  
 Next -> More % with high opportunity Less -> Green

BLOCKGRP	Highest Opportunity Quintile	Opportunity Quintile 2	Opportunity Quintile 3	Opportunity Quintile 4	Lower Opportunity	% Top Two	Populat...
060014251003	88	215	480	842	1,325	10%	3,162
060014301001	542	713	786	560	433	41%	3,075
060014503002	230	491	691	767	607	25%	2,893
060014507211	546	673	654	560	370	42%	2,887
060014515011	492	396	356	327	246	48%	1,856
060014511011	549	457	365	212	167	57%	1,777
060014507013	1,044	384	171	97	58	80%	1,776
060014415011	222	481	476	318	182	41%	1,703
060014506024	558	420	305	201	155	58%	1,674
060014421001	182	351	455	360	238	33%	1,606
060014377001	80	221	329	511	333	19%	1,578
060014505002	385	422	341	233	147	52%	1,547
060014507222	435	418	343	215	103	56%	1,534

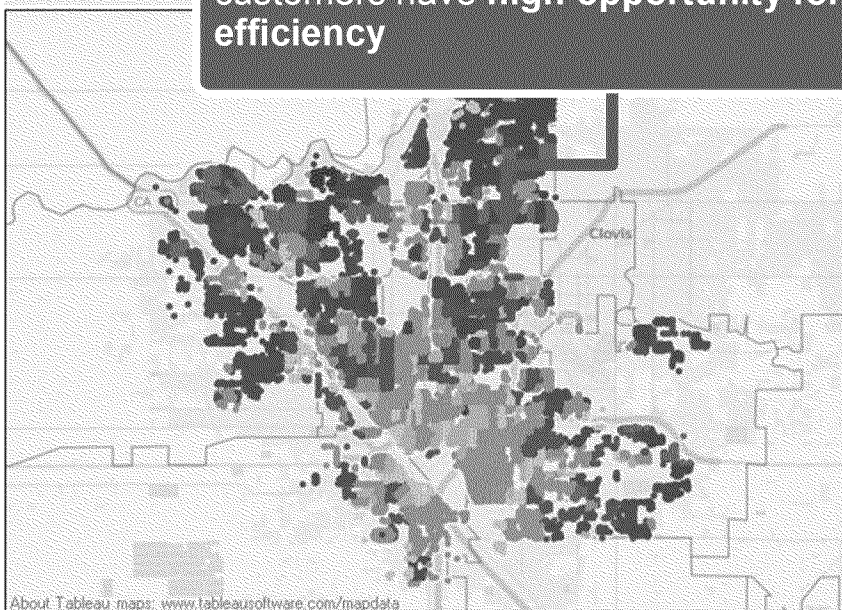
Customers are grouped by energy efficiency opportunity based on 14 metrics (usage, income, size, location, etc.)

Census data is used to understand characteristics of neighborhoods such as languages spoken and poverty levels

060014033001	39	138	246	382	464	13%	1,351
060014517021	459	350	264	153	92	61%	1,335
060014506063	395	346	255	187	103	57%	1,305
060014415034	60	239	409	352	213	23%	1,296
060014352022	144	331	316	302	151	37%	1,269
060014352001	202	344	299	232	160	43%	1,262
060014311001	76	187	275	385	276	24%	1,258

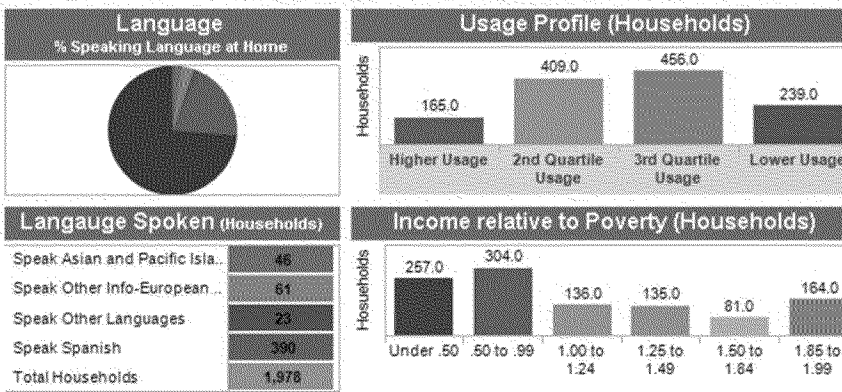
Usage - click on come

Red areas represents neighborhoods where customers have high opportunity for energy efficiency



About Tableau maps: www.tableau.com/mapdata

Block Group Characteristics - Click Map or List





# Combining Residential Propensity Scores with EEOS

## Interested customers who can also use less energy

- *Helps meet transactional and energy saving goals*
- *Can guide investments toward smaller groups of very actionable customers*

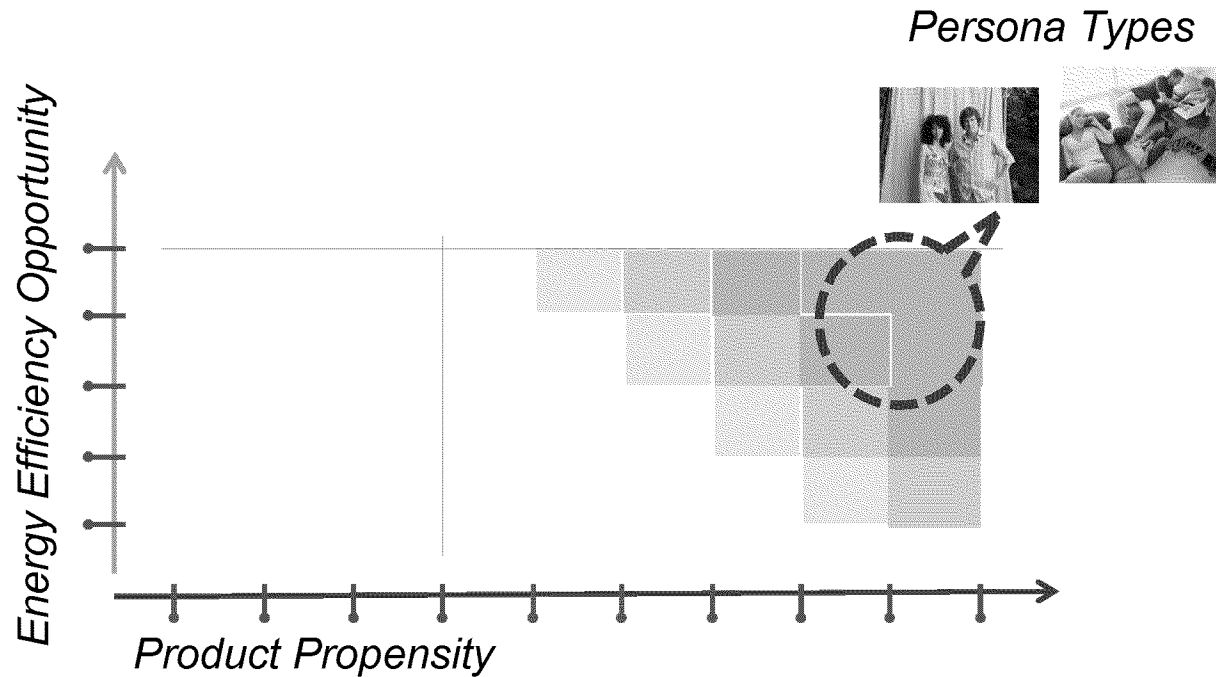
The EEOS has been used in conjunction with our product propensity scores to identify customers with both an inclination to use products plus have a higher amount of energy to save.

Propensity Deciles ↑	1-3	225,793 5.9% 0 0.69 <b>-0.03</b>	191,695 5.0% 130 0.68 <b>88.39</b>	240,292 6.3% 248 0.69 <b>170.98</b>	262,254 6.8% 399 0.69 <b>275.23</b>	297,246 7.8% 793 0.69 <b>547.51</b>	Freq Percent Opportunity Propensity Score
	4-6	236,089 6.2% 0 0.48 <b>-0.02</b>	205,887 5.4% 126 0.48 <b>60.54</b>	224,578 5.9% 247 0.48 <b>118.56</b>	231,727 6.0% 398 0.48 <b>191.20</b>	243,068 6.3% 788 0.49 <b>386.12</b>	
	7-10	304,357 7.9% 0 0.28 <b>-0.07</b>	367,941 9.6% 117 0.28 <b>32.22</b>	301,410 7.9% 245 0.28 <b>68.73</b>	271,578 7.1% 396 0.28 <b>110.88</b>	228,940 6.0% 753 0.28 <b>210.94</b>	
		1	2	3	4	5	
		EE Opportunity Levels →					



# Customer-Centric Outreach

## Putting It All Together



Right Customer → Energy Efficiency Opportunity Score

Right Product → Product Mapping

Right Message → Personification/Segmentation

# Statewide Segmentation

# 2009 Statewide ME&O Segmentation

- Conducted by Opinion Dynamics on Behalf of the CPUC
- Rationale: Attend to Strategic Plan direction for the SW ME&O program & address evaluation recommendations from the 2006-08 Process and Indirect Impact Evaluations
- Purpose: Segment population to develop a range of outreach strategies, messages & channels to better connect with specific groups of customers

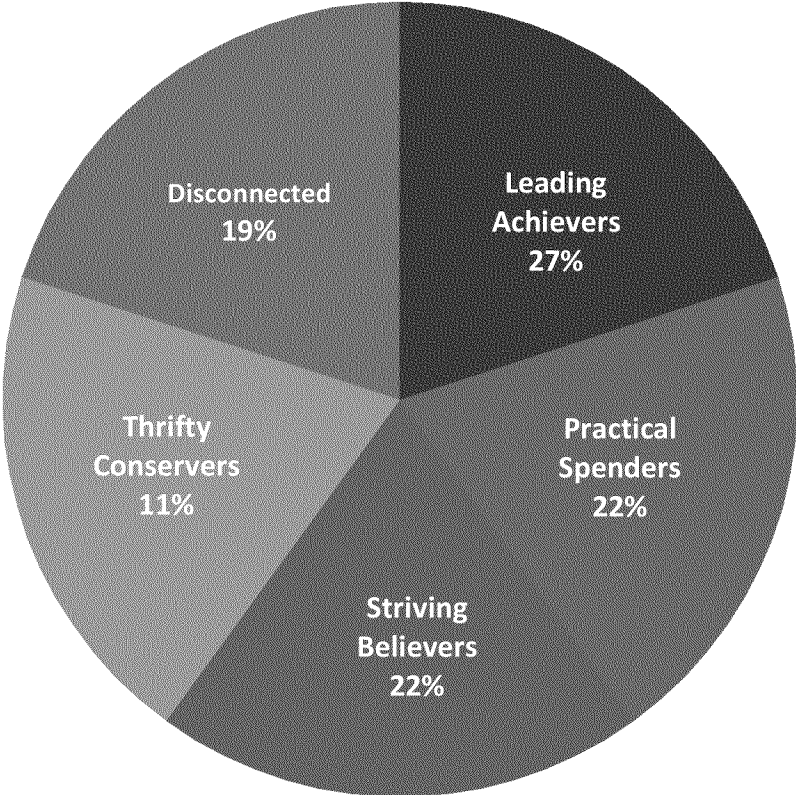


# 2009 Statewide ME&O Segmentation

## Areas Examined

- Attitudes / concerns regarding EE
- Low/No cost behaviors
- Higher cost behaviors
- EE program Participation
- Barriers
- Demographics

## Segments



# 2009 Statewide ME&O Segmentation

## Five Unique Segments— Smart Energy Practices And Demographics

Meet...	Alex The Leading Achiever		Betty The Striving Believer		Carlos The Practical Spender		Donna The Thrifty Conservor		Eric The Disconnected																
% Pop/ Sample	20%		24%		18%		21%		17%																
Efficiency Practices	High		Low		High		Low		Low																
Conservation Practices	Low		High		Low		High		Low																
Concern for Convenience & Comfort	Lower		Lower		Higher		Higher		Higher																
Age	35 - 64		25 - 54		55+		25 - 34 & 65+		18 - 34																
Income	\$75k+		\$50k - \$100k		\$30k - \$75k		< \$50k		< \$50k																
Owner/ Renter	Owner		Renter		Owner		Renter		Renter																
% Ethnicity per Segment	White 76%	Hispanic 13%	AA 3%	Asian 5%	Other 2%	White 61%	Hispanic 18%	AA 8%	Asian 11%	Other 2%	White 54%	Hispanic 29%	AA 6%	Asian 10%	Other 2%	White 49%	Hispanic 35%	AA 4%	Asian 11%	Other 1%	White 29%	Hispanic 50%	AA 14%	Asian 8%	Other 3%
% of Segment Residing in IOU Territory <sup>+</sup>	PG&E 42%	SCE 40%	LADWP 4%	SDG&E 10%	Other 3%	PG&E 40%	SCE 35%	LADWP 11%	SDG&E 12%	Other 3%	PG&E 34%	SCE 50%	LADWP 2%	SDG&E 8%	Other 5%	PG&E 37%	SCE 40%	LADWP 8%	SDG&E 7%	Other 6%	PG&E 32%	SCE 45%	LADWP 9%	SDG&E 7%	Other 6%

Source: Opinion Dynamics Corporation, 2009 \* Population distribution by IOU: PG&E 40%, SCE 40%, SDG&E 10%, Other 10%






## 2009 Statewide ME&O Segmentation

- SW ME&O segmentation emphasized EE program participation interests and behaviors.
- While relevant in near-term and the segments have recently been duplicated in a 2012 General Population Study.
- A consolidated version of the IOU's unique segmentation efforts offers relatively current and IOU customer-specific information.

# Common IOU Segments

# Common Segment Characteristics Across IOUs

	Uninterested	Entrant	Basic Conservationist	Comfortables	Budget Conscious	Engaged Affluents
 <b>SDGE</b> Semptra Energy utility	Disengaged Traditionalists (19%)	Budget-Constrained Greens (27%)	n/a	Unconcerned Affluents (20%)	Energy Indifferent Independents (11%)	Engaged Green Affluents (23%)
 <b>SOUTHERN CALIFORNIA EDISON</b> An EDISON INTERNATIONAL Company	Indifferent (7%)	Aspiring Conservationist (14%) Novice (14%)	Traditionalists (14%) Waste Not/ Want Not (16%) Control (17%)	Comfortable Skeptics (11%) Opportunistic (30%)	Social Techies (24%) Automate (18%)	Green Actives (21%) Innovator (14%)
 <b>Pacific Gas and Electric Company</b>	Wise with No Surprise Heart & Home (14%)	Style Seekers (11%)	Paving the Way (4%)	Posh & Prudent Modern Mainstream (22%)	Valley Values Living for Today (10%)	Gadget Family Way Wired (24%)

Note: PG&E's Eco-Active Go-Getter segment doesn't fit into one of these 6 segments as it is an unengaged, high income, high bill but no needs Bay Area segment. This segment makes up 15% of PG&E's residential customer base.

All IOUs made their best judgment to map their segments to these common statewide segments, however, these are not exact matches. The IOUs segment percentages are specific to each IOU and can't be rolled up into a statewide percentage without additional analysis.

# Uninterested Profile

“Will not take action and have low engagement”

## Stage of Engagement

- Low

## Demographics

- Older, 55+
- Low to mid-income range
- More Multi-Family, Renters, Mobile Homes (PG&E)
- More Single Family Homeowners (SCE/SDG&E)
- Low to average home size

## Lifestyle

- More Traditional
- More Home Oriented
- Less Internet Savvy

## Utility Factors

- Low average bill
- High Likelihood to be on standard rate plans

## Channels

- Prefer Bill Inserts and Direct Mail
- TV Advertising (PG&E)
- Pay through the mail
- Low utility website usage

## Program Participation

- Lower than Average Program Participation

## Green Concern

- Low to Average Green Behaviors



Note: All IOUs made their best judgment to map their segments to these common statewide segments, however, these are not exact matches.

# Entrant Profile

“Will take no cost actions but need more education”

## Stage of Engagement

- Low to Medium

## Demographics

- Younger, under 45
- Low to mid income range
- More Hispanic and African American
- More Multi-Family and Renters

## Lifestyle

- More Family Oriented
- Less Internet Savvy
- Less Financially Savvy

## Utility Factors

- Higher Likelihood for Late/Missed Payments
- Low average bill
- Higher Likelihood to be on Low Income Rate Plan
- Want to work closely with utility to manage energy costs

## Channels

- Prefer Bill Insert and Direct Mail
- Low utility website usage

## Program Participation

- CARE
- FERA, E-BPP, Lighting Rebates (PG&E in addition to CARE)

## Green Concern

- Average to Above Average Green Behaviors



Note: All IOUs made their best judgment to map their segments to these common statewide segments, however, these are not exact matches.

# Basic Conservationist Profile

## “Will proactively manage my thermostat”

SDG&E doesn't have this Segment

### Stage of Engagement

- Low to Medium

### Demographics

- Over 35
- Mid income range
- More African American (PG&E)
- Moderate Home Value
- Homeowners

### Lifestyle

- More Family Oriented
- More Traditional
- Less Technology Savvy
- Less Financially Savvy

### Utility Factors

- Mid to High bill
- Multiple Payment Methods (PG&E)
- Higher Likelihood of Missed Payments (PG&E)
- More help tickets (PG&E)

### Channels

- Pay electronically

### Program Participation

- Lighting Rebates (PG&E)
- Average Program Participation (SCE)

### Green Concern

- Low Green Behaviors



Note: All IOUs made their best judgment to map their segments to these common statewide segments, however, these are not exact matches.

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# Comfortables Profile

“Will take low cost measures but not at the cost of comfort”

## Stage of Engagement

- Low to Medium

## Demographics

- 45+
- Homeowners
- Moderate to High Home Value
- Higher income range
- More Retirees
- Smaller Family Size

## Lifestyle

- More Family Oriented
- More Traditional/Conservative
- More Community Focused (PG&E)

## Utility Factors

- High average bill
- Longer tenure with utility (PG&E)

## Channels

- Less Ad Receptive (PG&E)
- Pay through the mail or check (PG&E)
- Online, e-mail, self service (SDG&E)

## Program Participation

- Lighting Rebates (PG&E)
- Lower than average interest in EE Programs (SDG&E)

## Green Concern

- Low to Average Green Behaviors



Note: All IOUs made their best judgment to map their segments to these common statewide segments, however, these are not exact matches.

# Budget Conscious Profile

“Will participate in programs that lower my bill”

## Stage of Engagement

- Medium to High (PG&E/SCE)

## Demographics

- Skews Younger
- Low to mid income range
- Low to lower home value (PG&E)
- More Renters

## Lifestyle

- Less Technology Savvy (PG&E)
- More Technology Savvy (SDG&E/SCE)
- More Approval Seeking (PG&E)
- More Image Conscious (PG&E)
- More Traditional/Conservative (PG&E)

## Utility Factors

- Higher Likelihood to be on Low Income Rate Plan
- Low to average bill
- Multiple Payment Methods (PG&E)
- High website usage (SCE)

## Channels

- Pay online/electronically

## Program Participation

- CARE, ESA, SmartRate, Lighting Rebates, BPP, SmartAC (PG&E)
- Higher CARE participation (SDG&E)
- AC Cycling Participation (SCE)

## Green Concern

- Average Green Behaviors



Note: All IOUs made their best judgment to map their segments to these common statewide segments, however, these are not exact matches.

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# Engaged Affluents Profile

“TechSavvy and will invest in EE appliances and solar”

## Stage of Engagement

- High

## Demographics

- Middle Aged
- Mid to high income range
- Moderate to Large Sized Homes
- Skews Asian

## Lifestyle

- More Technology/Internet Savvy
- Active/Outdoorsy
- Upscale Living
- Financially Savvy
- Early Adopters of Technology

## Utility Factors

- Visited utility website and My Account
- Multiple Payment Methods
- Mid to High Bill

## Channels

- Less Ad Receptive (PG&E)
- Pay Electronically
- Online /E-mail

## Program Participation

- Solar, higher than average interest in Energy Efficiency, Demand Response and audit programs

## Green Concern

- Average to Above Average Green Behaviors

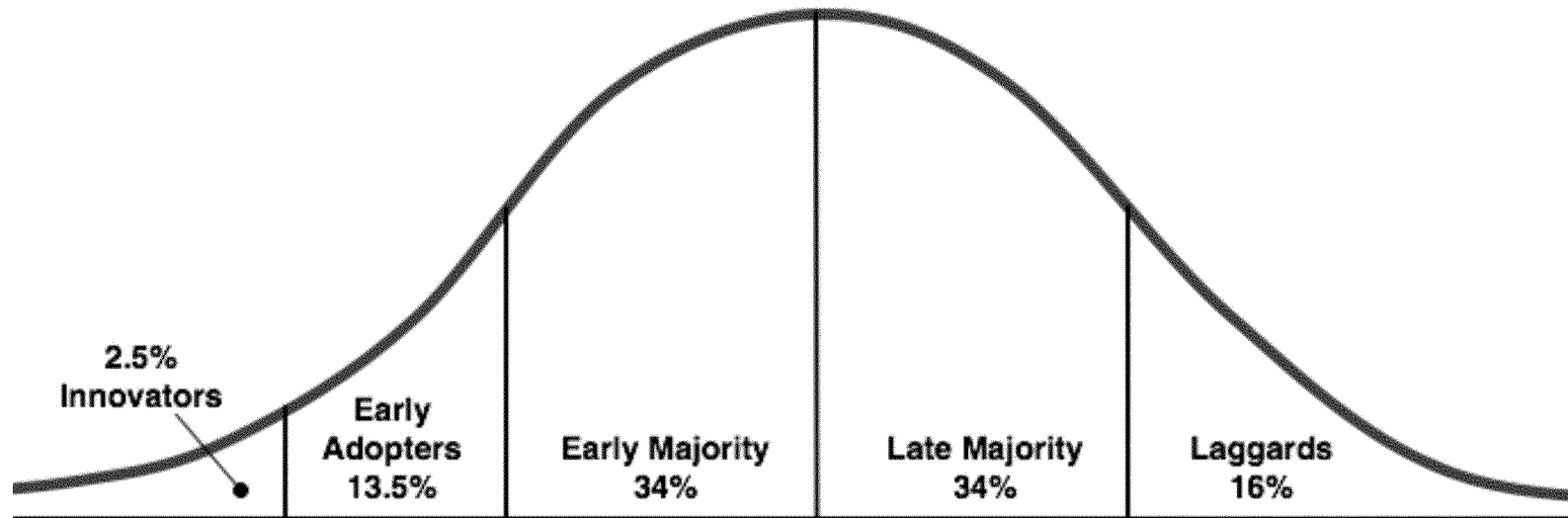


Note: All IOUs made their best judgment to map their segments to these common statewide segments, however, these are not exact matches.

# Program Adoption Curve Examples



# Standard Product Diffusion Curve



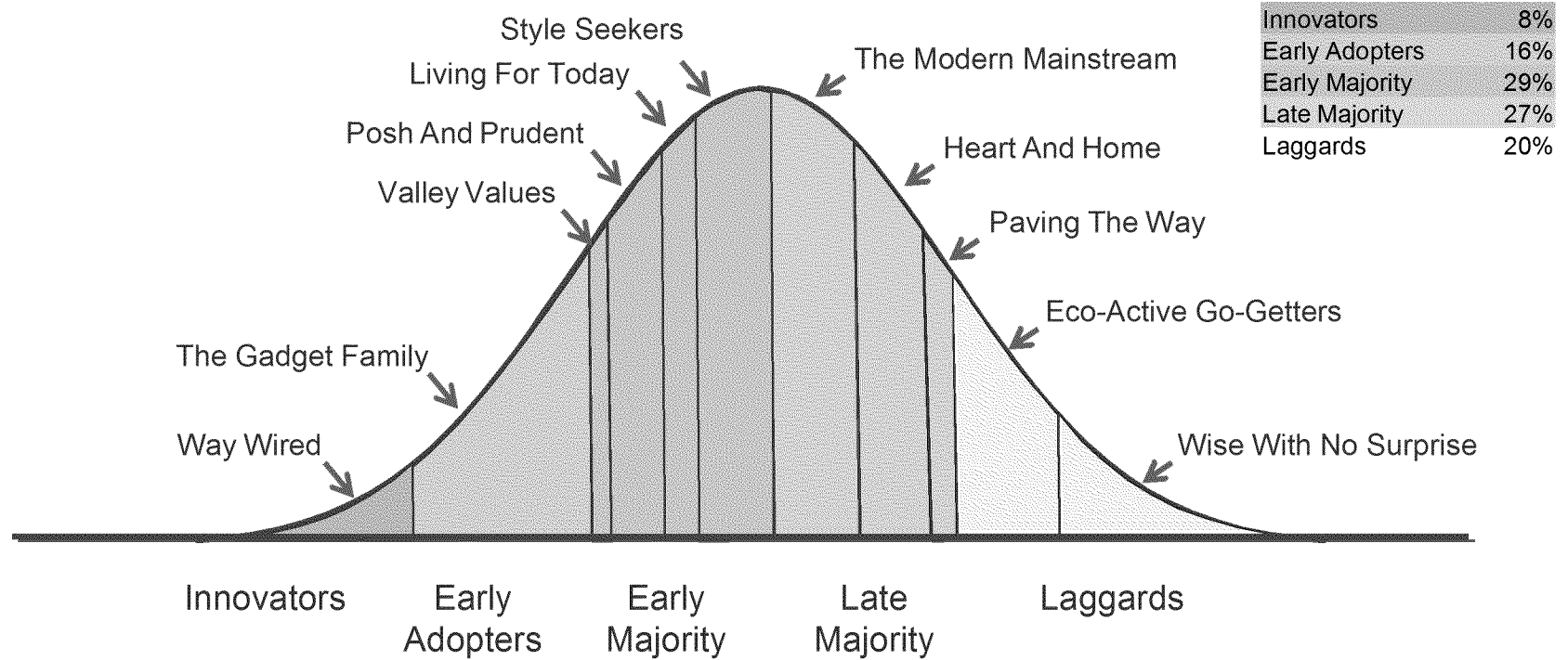
Source: Everett Rogers Diffusion of Innovations model



# Rebates (2012)

The personas have been mapped to a standard product diffusion curve based on the persona estimated rate of adoption tendencies (first looking at the product penetration within the persona and then by the base size).

	<b>Base Size (2012)</b>	<b>Rebate (2012)</b>	
Way Wired (6)	8%	67.9%	Innovators
The Gadget Family (10)	16%	34.8%	Early Adopters
Valley Values (7)	3%	22%	Early Majority
Posh and Prudent (3)	8%	15.5%	Early Majority
Living For Today (11)	7%	9.5%	Early Majority
Style Seekers (5)	11%	9.4%	Early Majority
The Modern Mainstream (8)	14%	6.3%	Late Majority
Heart and Home (2)	9%	2.9%	Late Majority
Paving the Way (9)	4%	1.6%	Late Majority
Eco-Active Go-Getters (4)	15%	0.4%	Laggards
Wise With No Surprise (1)	5%	0.3%	Laggards

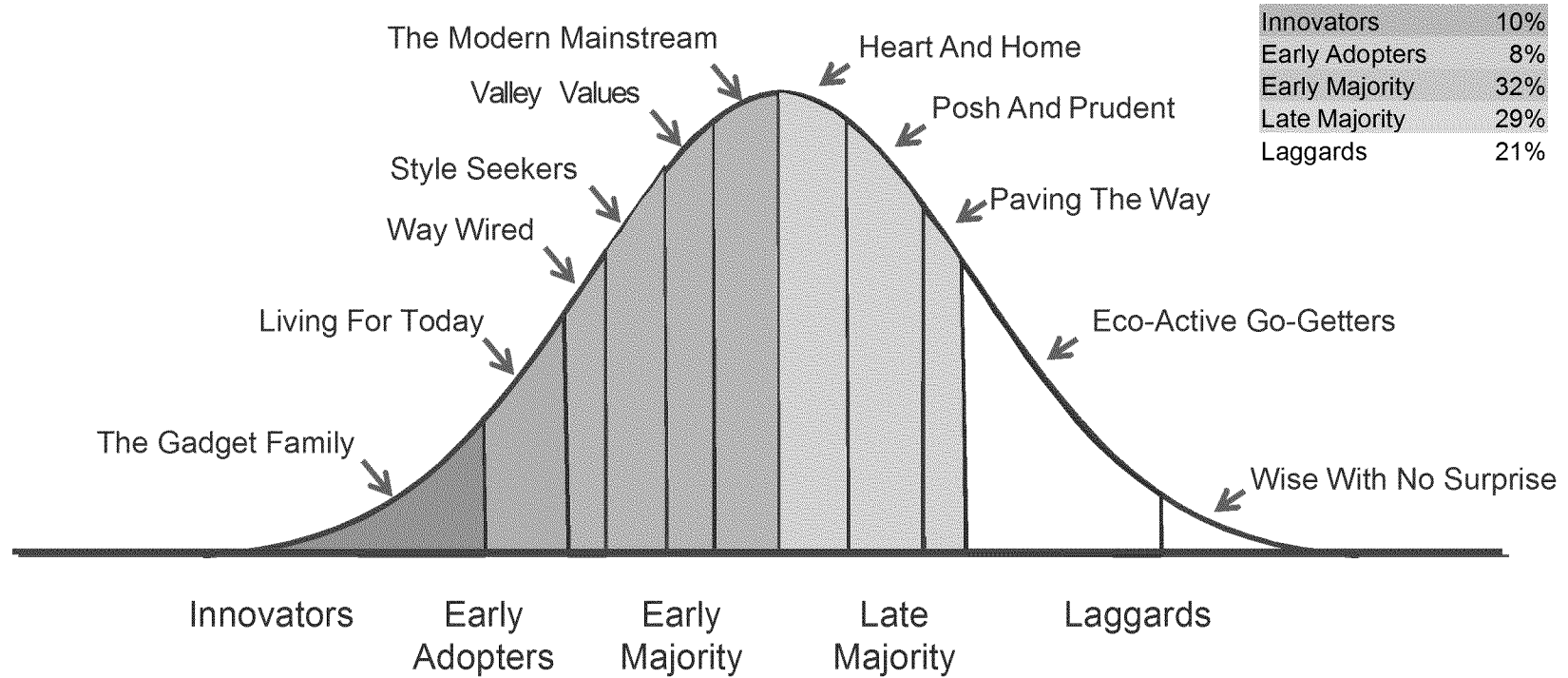


\*Rebate data from 2004 to present.



# SmartAC (2009)

	<u>Base Size</u> <u>(2009)</u>	<u>SmartAC</u> <u>(2009)</u>	
The Gadget Family (10)	10%	31.4%	Innovators
Living For Today (11)	8%	17.6%	Early Adopters
Way Wired (6)	7%	14.7%	Early Majority
Style Seekers (5)	10%	9.1%	Early Majority
Valley Values (7)	2%	8.6%	Early Majority
The Modern Mainstream (8)	13%	6.3%	Early Majority
Heart and Home (2)	11%	4.9%	Late Majority
Posh and Prudent (3)	11%	4.0%	Late Majority
Paving the Way (9)	7%	2.4%	Late Majority
Eco-Active Go-Getters (4)	15%	1.0%	Laggards
Wise With No Surprise (1)	6%	0.1%	Laggards

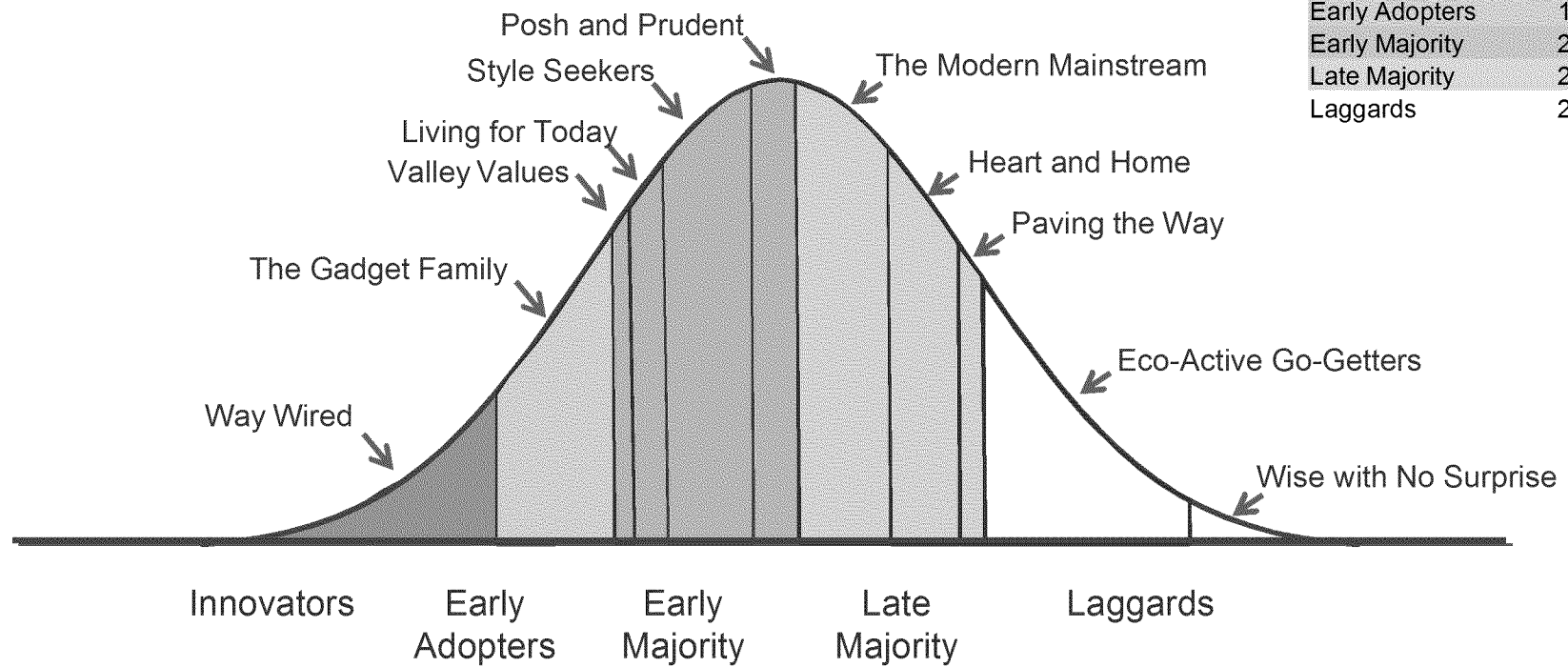




# SmartAC (2012)

	<u>Base Size</u> <u>(2012)</u>	<u>SmartAC</u> <u>(2012)</u>	
Way Wired (6)	8%	18.0%	Innovators
The Gadget Family (10)	16%	13.5%	Early Adopters
Valley Values (7)	3%	12.8%	Early Majority
Living For Today (11)	7%	7.1%	Early Majority
Style Seekers (5)	11%	4.7%	Early Majority
Posh and Prudent (3)	8%	3.7%	Early Majority
The Modern Mainstream (8)	14%	3.4%	Late Majority
Heart and Home (2)	9%	2.7%	Late Majority
Paving the Way (9)	4%	2.3%	Late Majority
Eco-Active Go-Getters (4)	15%	1.6%	Laggards
Wise With No Surprise (1)	5%	0.9%	Laggards

Innovators	8%
Early Adopters	16%
Early Majority	29%
Late Majority	27%
Laggards	20%



\*SmartAC data from 2009 to present.



# Next Steps

## Discussion and Brainstorming

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