

# Stakeholder Education: Let's Start with the Customer

**Gail Allen**

Senior Manager Customer Intelligence, KCP&L

**Kris McDaniel**

Market Research Analyst,  
KCP&L

**P182 Customer Behavior Webcast Series:  
“You Ask, We Investigate”**

November 1, 2016



*facilitated by Rebecca Wingenroth  
EPRI Technical Leader, Principal*

# Housekeeping

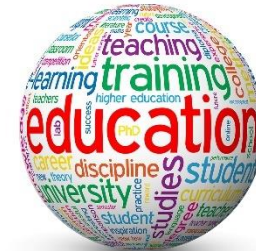
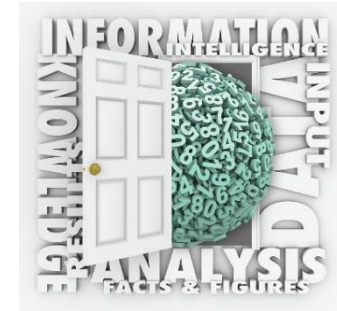
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- As a courtesy to all of our participants, please place your phone on mute when not talking.
- Feel free to ask questions over the phone, or by using the “chat” feature on the Webex toolbar or by ‘raising your hand’.



## P182 Customer Behavior Webcast Series: “You Ask, We Investigate”

## Three webcasts in the series:

1. Expanding Customer-related Services in an Integrated Grid
  - Wed, Jul 27, 2016, 2pm Eastern
2. Customer Data Analytics: Applications and their Value
  - Wed, Aug 31, 2016, 2pm Eastern
3. Stakeholder Education, Let's Start with the Customer
  - Wed, Nov 2, 2016, 2pm Eastern



**SAVE the DATE and Mark Your Calendar!**

**P182 Understanding Electric Utility Customers' Webex**  
***January 11, 2017 at 2pm Eastern***



# Mark Your Calendar

## Upcoming EPRI PDU Advisory Meetings in 2017

Program Meetings: February 13-15, 2017

Council Meetings: February 15-16, 2017

Hyatt Regency-Huntington Beach

21500 Pacific Coast Highway

Huntington Beach, Ca 92648

[www.huntingtonbeach.hyatt.com](http://www.huntingtonbeach.hyatt.com)

Group Rate: \$239



Program Meetings: September 11-13, 2017

Council Meetings: September 13-14, 2017

Hyatt Regency Denver

650 Fifteenth Street

Denver, CO 80202

[Hyatt Regency Denver](http://HyattRegencyDenver.com)

Group Rate: \$225



# Communication and Education: Update

1. Customer Engagement Model: seven key elements for customer education and communication.
2. Many utilities already utilizing online customer surveys.
3. KCP&L and EPRI partnered for online customer survey directed at customer understanding of grid, September 2016.
4. Topic highlighted at EPRI Communications Council, October 4<sup>th</sup> with overview of KCP&L's and Con Edison's processes.
5. Results summarized in EPRI P182 "You Ask, We Investigate: Customer Webcast Series" Scheduled for November 1st, 2PM Eastern



# Identified Stakeholders from EPRI Members

Stakeholders	P182 Understanding Electric Utility Customers	Communications Council
Residential Customers	✓	✓
Multi Family	✓	✓
Low Income	✓	✓
Commercial	✓	✓
Industrial	✓	✓
Municipal	✓	✓
Regulators	✓	✓
Utility Staff: (senior mgmt.; call center)	✓	✓
Vendors	✓	✓
Landowners	Not Identified	✓
Financial Community	Not Identified	✓
Consumer Advocate	✓	✓
Intervenors	✓	✓
Special Interest	✓	✓
Elected Officials/Community Leaders	Not Identified	✓

Highest priorities

# Key Elements of Customer Engagement Model: EPRI Member Highest Priorities (voting results)

	P182 Understanding Electric Utility Customers Program	Communications Council
1 - Awareness	9	10
2 - Access	5	1
3 - Convenience	4	4
4 - Understanding	11	9
5 - Applicability	0	1
6 - Coordination	6	2
7 - Trust	1	5

# Customer Advisory Panel Testing Model Elements Survey

Data Collection 9/28-10/5/2016



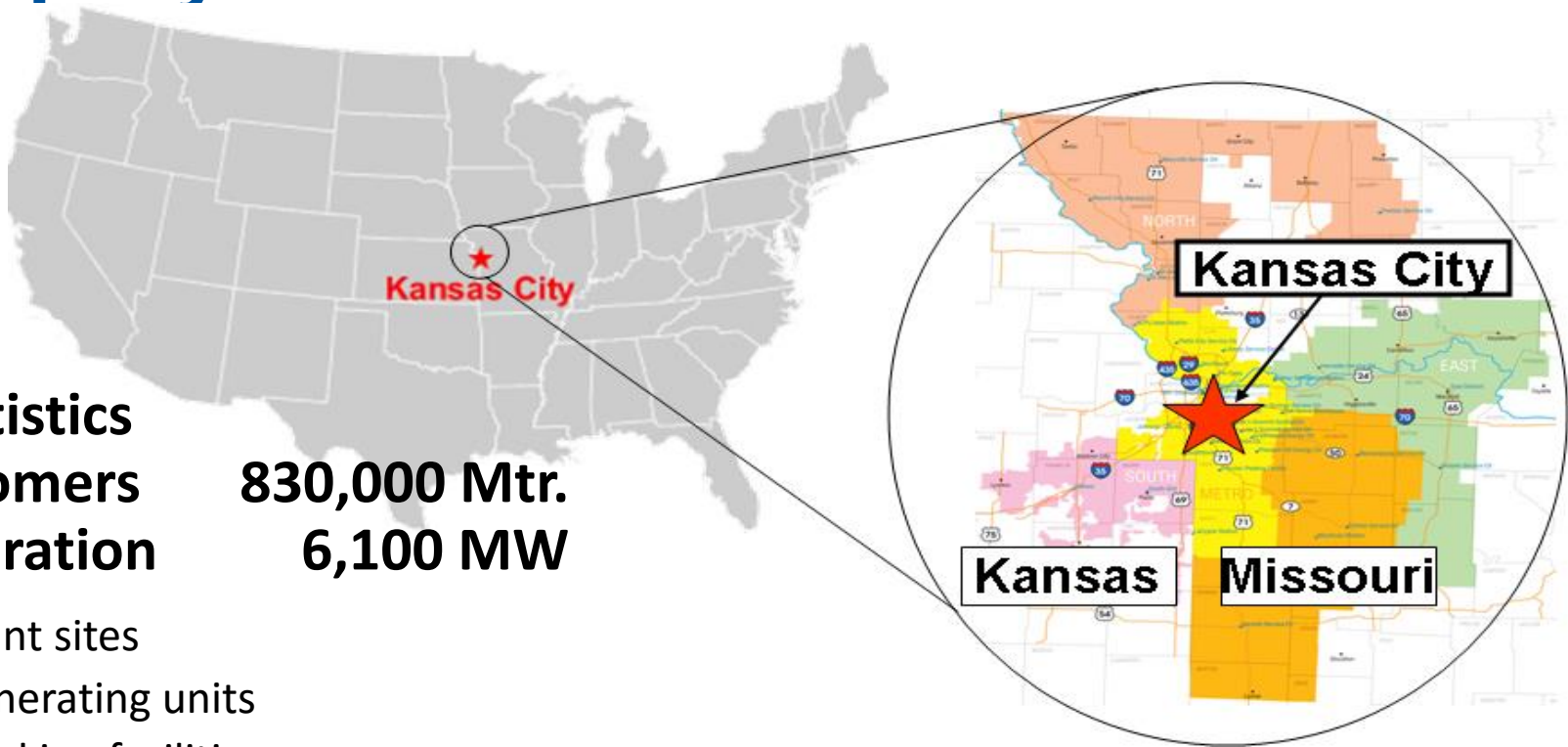
**Gail Allen, Sr. Manager, Customer Intelligence**

**Kris McDaniel, Market Research Analyst, Customer Insights**

# Agenda

- KCP&L Overview and Customer Insight Team
- Research Report Summary
- Research Q & A's – “the grid”
- Research Q & A's – EPRI partner utility videos
- Panel Statistics

# Company Overview



## Key Statistics

**Customers** 830,000 Mtr.  
**Generation** 6,100 MW

9 plant sites  
26 generating units  
10 peaking facilities

**Dist. Subs** 315  
**Dist. Circuits** 1600

**EV Charging Stations** 800+

**Employees** 3000  
**Regulatory Jurisdictions** 2

# Customer Insights Team - Goals

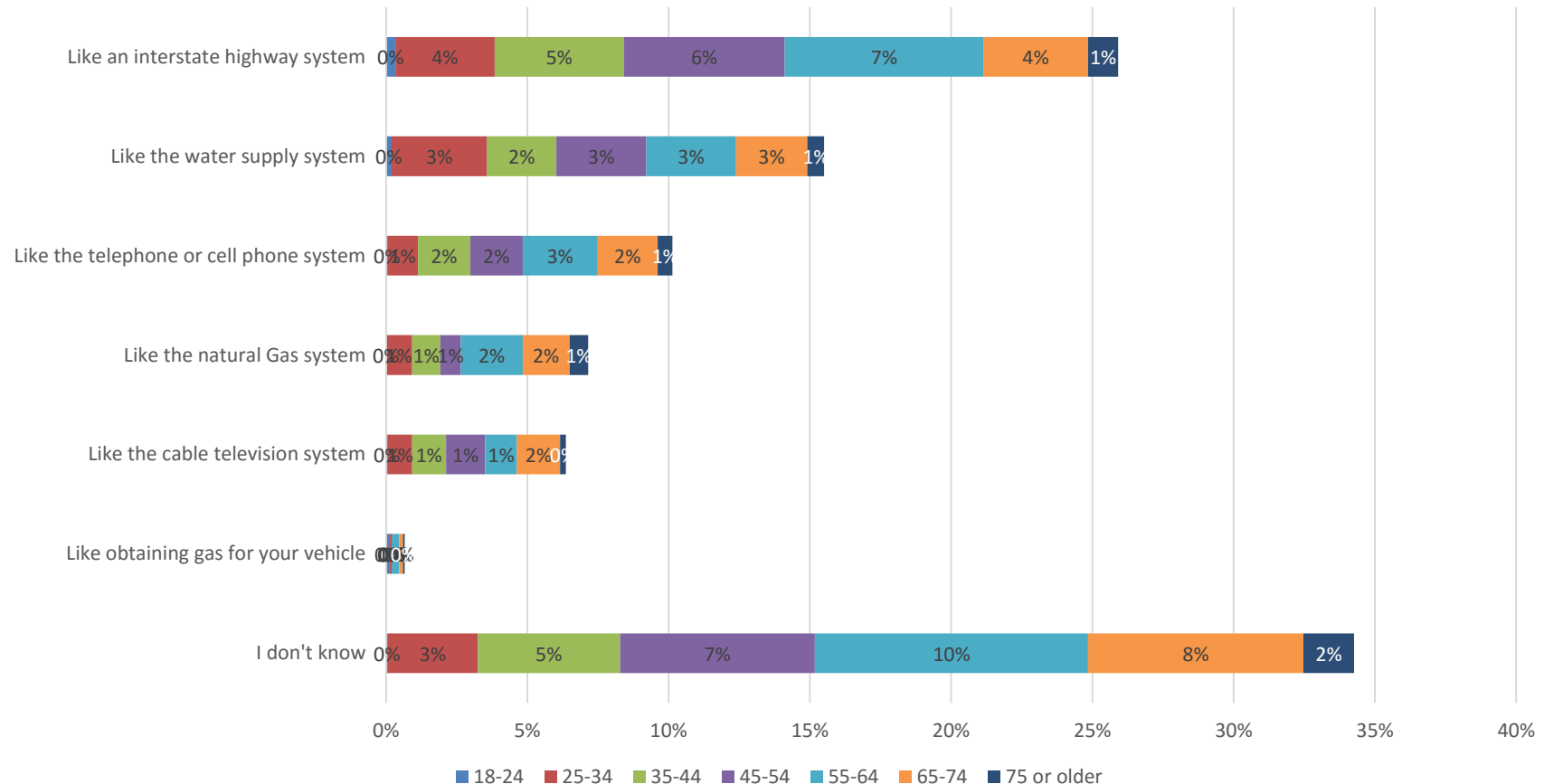
- Provide customer insights that will help our company maintain or improve customer satisfaction by keeping the customer a focus point for the company as we make strategic and operational decisions
- Increase Executive, Leadership Team, and Employee knowledge of the KCP&L customer
- Integrate customer data/findings into business plans throughout the company
- Maintain and/or increase customer satisfaction
- Improve customer experience
- Maximize KCP&L's customer research

# Summary of EPRI–Focused Research

- Panelists understand the grid by comparing it most to the interstate highway system
- Panelists believe the electrical system is the most valuable compared to other systems they use
- Panelists found the ComEd video to be the most understandable
- Age, income, education, and territory had little to no impact on each question.

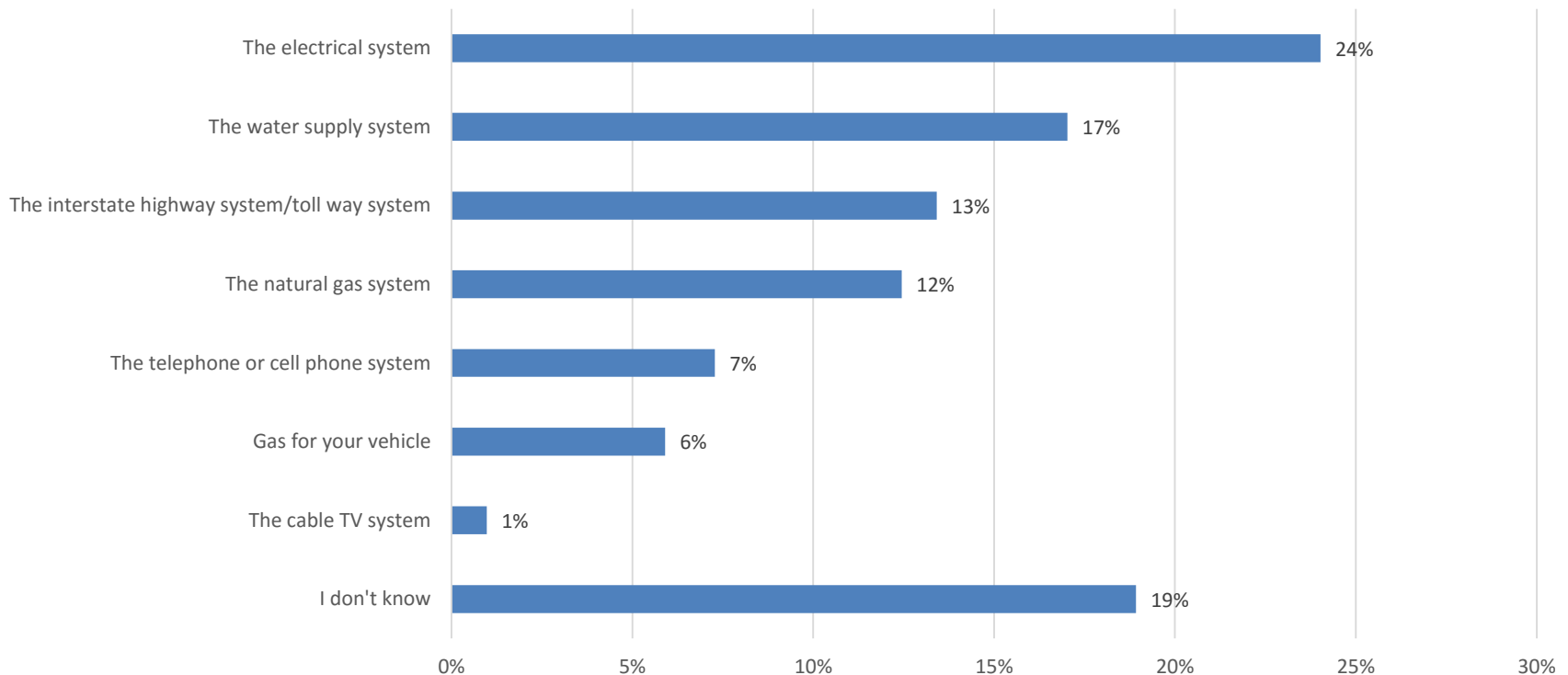
# Panelists think of the electric grid working like the interstate highway system

**Question:** How would you best describe the way the electric grid works today?



# Panelists believe the electric system is provides the most value compared to other services

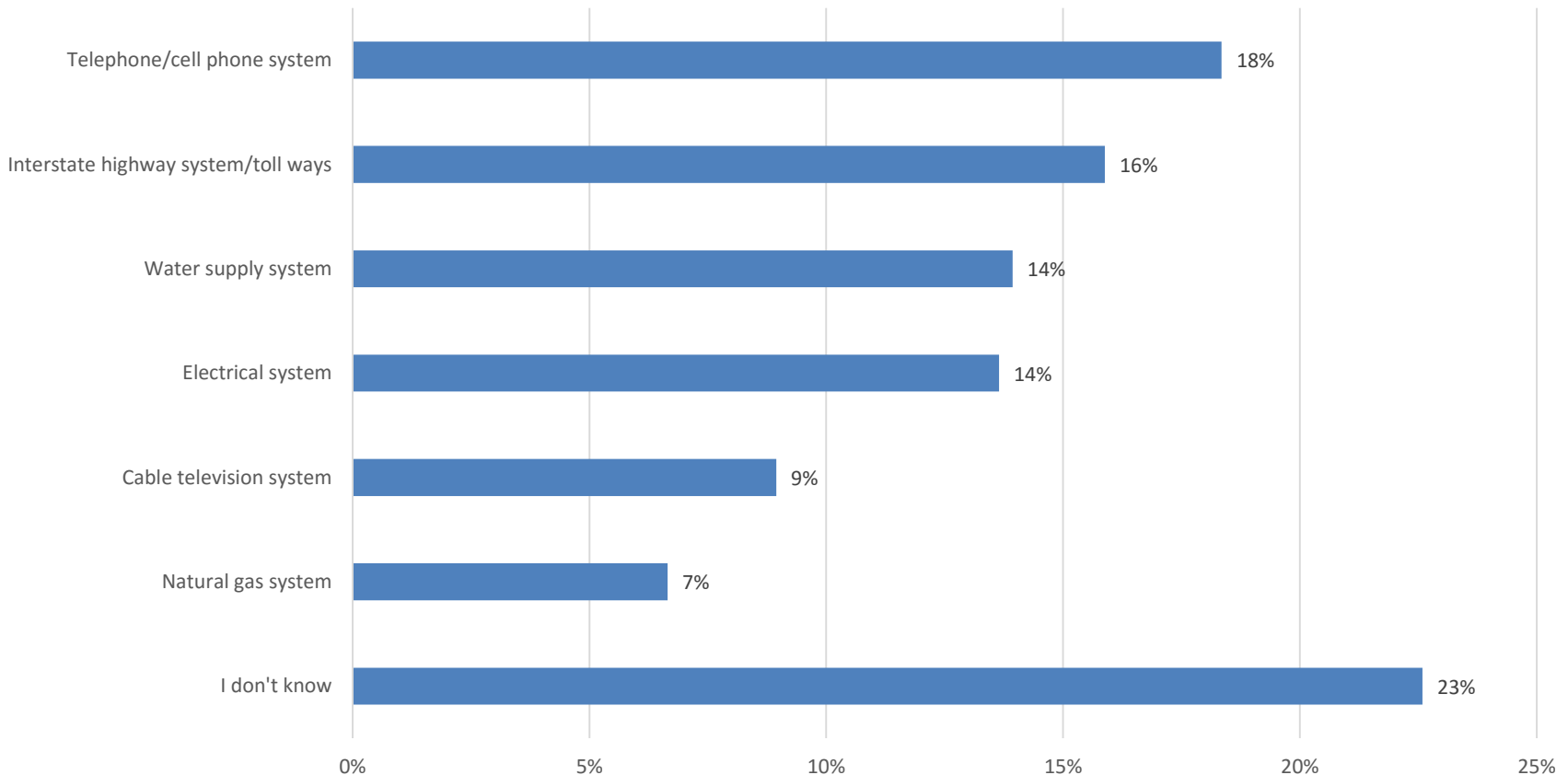
**Question:** Which of these systems do you think provides the most value for the price you pay?



\*KCP&L experienced a large outage this summer which may be skewing results

# Panelists do not believe they understand the pricing of utilities

**Question:** Which of these systems do you understand the best as far as pricing?

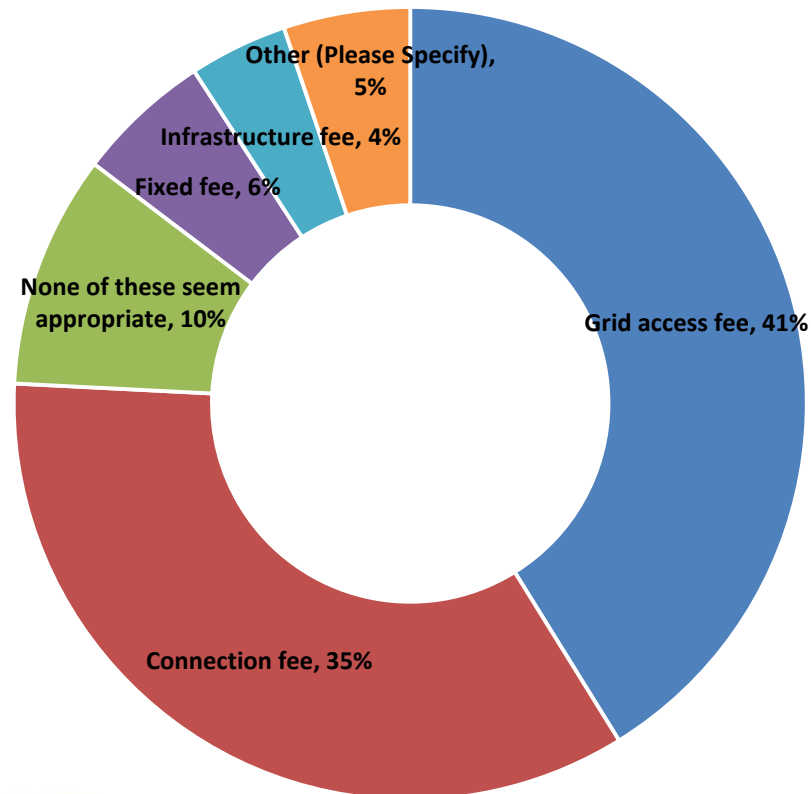


# Panelists were undecided about the naming of the fee, however believed 'Grid Access Fee' was the best fit out of the choices provided

**Question:** Suppose you were considering purchasing solar panels for your home and you had to pay a fee for KCP&L to connect your solar to our larger electricity system known as the grid. Which of the following phrases describing the fee for this service would seem most understandable to you?

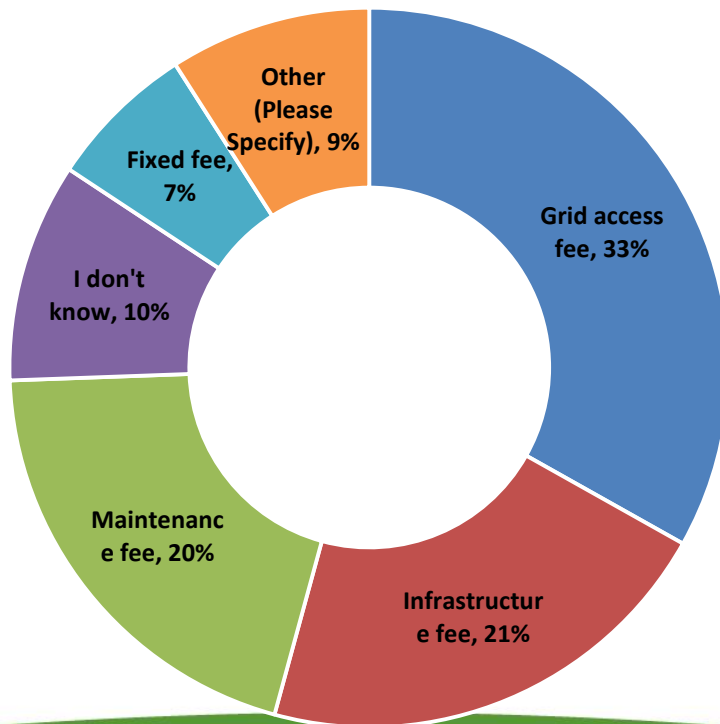
## From 'Other' write-ins:

Account Setup Fee  
Buy Back Fee  
Connection fee  
Gate fee  
Grid Connection Fee (3)  
grid expansion assistance  
Grid Hook-up Fee  
Grid Interconnection Fee  
Grid Interface Fee  
Interchange Fee  
One time connection fee.  
Safety code compliance inspection  
Solar to Grid access fee  
Solar Grid Connection Fee  
Solar Panel Connection Fee (9)  
Solar panel surcharge



# Panelists were undecided on the name of this fee, however 'Grid access fee' was the most selected

**Question:** Suppose you purchased a solar panel system for your home and you choose to sell your excess electricity back to the grid because you don't plan on storing the electricity in batteries around your home. You plan to sell the unused energy gathered during the day back to the electric company, and purchase usage from them at night when the sun is not shining. In addition to the electricity used at night, there would also be a fee for being tied into the electric grid which helps maintain the system of poles and wires. Which of the following phrases describing the fee for this service would seem most understandable to you?



## From 'Other' write-ins:

Availability Charge  
Buy Back Fee (3)  
Cooperative electricity fee  
Customer Charge  
Electrical System Access Fee  
Energy Exchange Fee  
Excess Electricity Fee (2)  
Excess Grid access fee  
Exchange Adjustment  
Exchange Fee  
Exchange Use Cost  
Gathered Energy Fee  
Grid access and maintenance fee (2)  
Grid connection maintenance fee  
Grid exchange fee  
Grid expansion assistance  
Grid Interconnection Fee (2)  
Grid Maintenance Fee (5)  
Grid surcharge  
Grid Usage Fee (4)  
Infrastructure Maintenance Fee  
Interchange fee  
Interconnect fee  
Limited Usage Fee  
Night Fee  
Night grid fee  
Night time access fee  
Nightly Usage Fee  
Off-Peak Access Fee  
Panel transition fee  
Peak electric exchange  
Personal usage fee  
Power Buy Back Fee  
Sell back fee (2)  
Solar fee  
Solar Panel Garage Tax  
Solar sell/pay fee  
Solar transfer fee  
Solar/Grid Exchange fee  
Storage fee  
Supplemental Power Production Fee  
Transaction Fee  
Twilight usage fee  
Unused energy buyback  
Unused energy fee  
Usage fees

# ComEd's Hourly Pricing Rate Option Video was shown to panelists to rate.

**Question:** Please watch the following video. Once done, answer the question below the video.

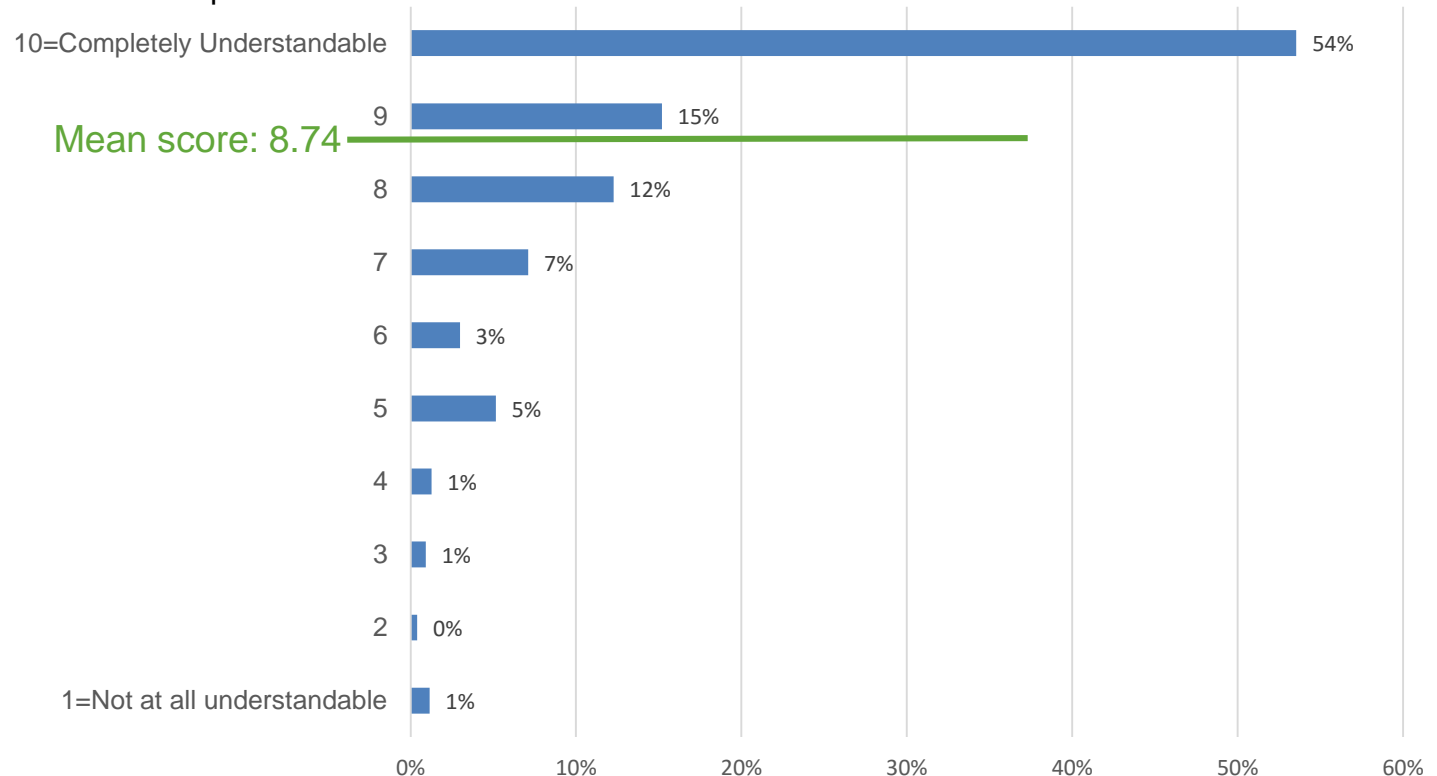
On a scale of 1-10, where 1 means you don't understand the video and 10 means you completely understand the video, how understandable is the concept in the video?



# Panelists found the video from ComEd to be the most understandable of all videos presented

**Question:** Please watch the following video. Once done, answer the question below the video.

On a scale of 1-10, where 1 means you don't understand the video and 10 means you completely understand the video, how understandable is the concept in the video?



# Arizona Public Service provided a video to explain how rates are set for the panelists to rate.

**Question:** Please watch the following video. Once done, answer the question below the video.

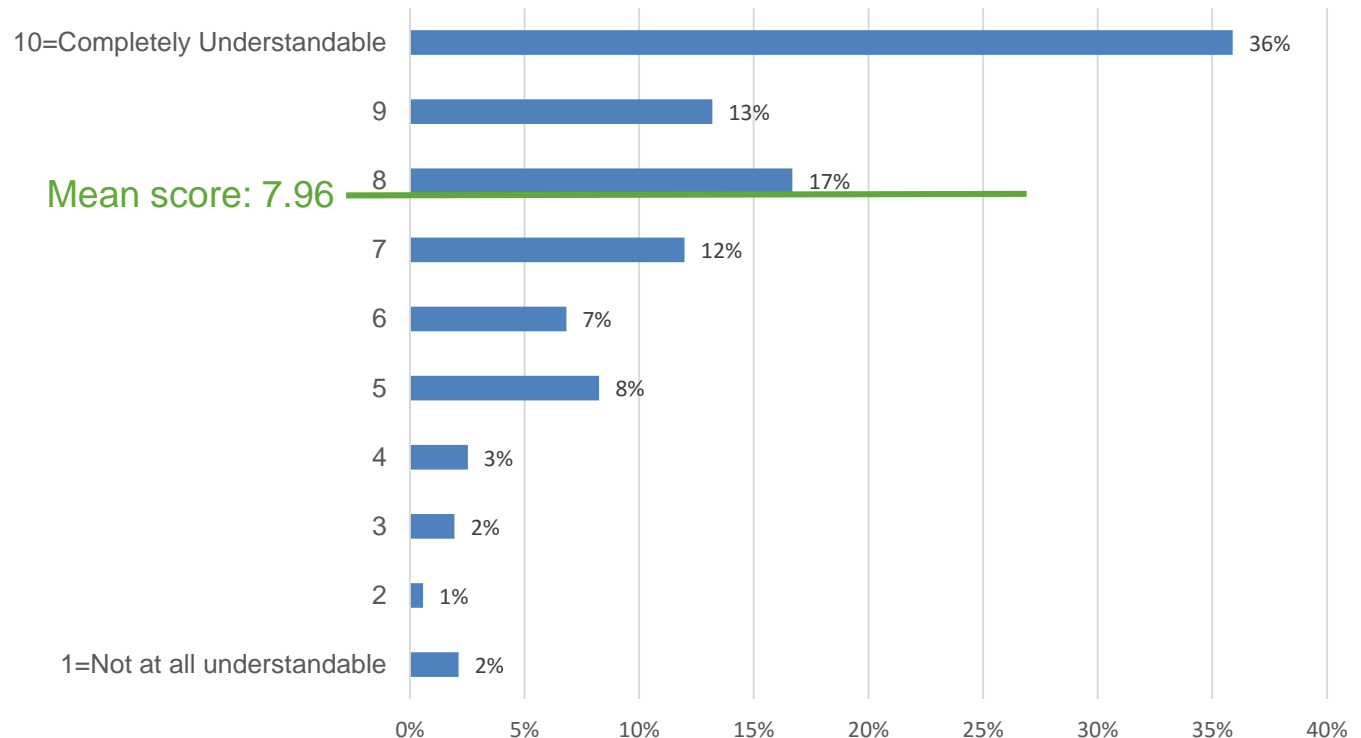
On a scale of 1-10, where 1 means you don't understand the video and 10 means you completely understand the video, how understandable is the concept in the video?



# Panelists found the video from APS understandable with a mean score of 7.96

**Question:** Please watch the following video. Once done, answer the question below the video.

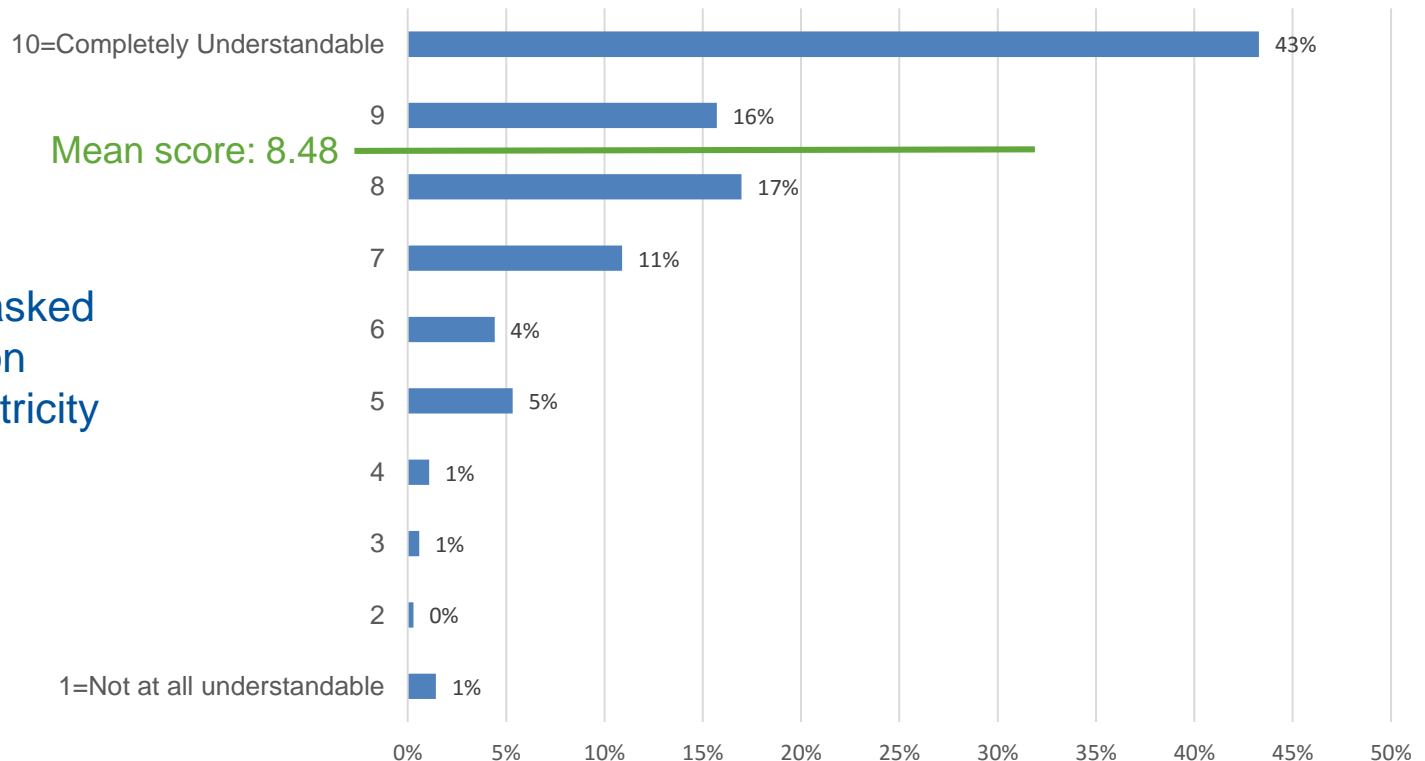
On a scale of 1-10, where 1 means you don't understand the video and 10 means you completely understand the video, how understandable is the concept in the video?



# Panelists understood SRP's video, ranking it 2<sup>nd</sup> based on mean scores of the four informative items shown

**Question:** Please watch the following video. Once done, answer the question below the video.

On a scale of 1-10, where 1 means you don't understand the video and 10 means you completely understand the video, how understandable is the concept in the video?



Salt River Project asked us to rate a video on understanding electricity demand (unable to share due to video being unlisted)

# Showed an explanation of demand from Infotricity for the panelists to rate their understanding

**Question:** Please review the following information. Once done, answer the question at the bottom of the page.

On a scale of 1-10, where 1 means you don't understand the information above and 10 means you completely understand the information, how understandable is the concept in the information?

## An Explanation of Demand (and how much power do my appliances use?)

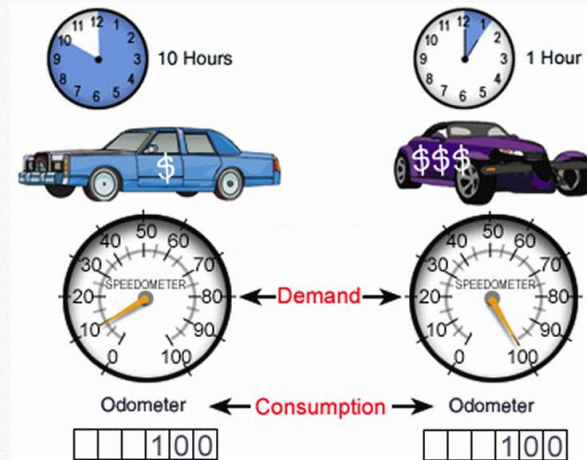
Shown below are common household appliances. The numbers are an average number of watts that each uses while it's on. Therefore, as you move further to the right, and further down the list, the electrical usage is going up (in the lower right hand corner, notice that the largest single user is your home's heating and cooling system).

The numbers shown are watts – the EPB measures kilowatthours (a kilowatthour is 1,000 watts of electricity used for 1 hour – power used over a length of time). 100 watts is 1/10 of a kilowatt. The Central Heat & Air at 5,000 watts – that's 5 kilowatts. The new rate looks at your **coincident peak**. That is, how much electricity were you using during the one hour out of the month when Glasgow was using the most power?

As you look at the graphic, what if your home's dishwasher, microwave oven and a space heater were all on at the same time as the monthly peak? That would be 1,500 watts for the dishwasher, 1,500 watts for the microwave and 1,500 watts for the space heater, a total of 4,500 watts in demand – or 4.5 kilowatts. That would cost you an extra \$45 on the bill. If those were used "off peak," the power to run them would only be about 27 cents per hour! When these loads are used outside of the peak hour, there will be no kW demand charge for their usage.



The concept of demand can also be thought of in terms of driving a car. If you had to go to a destination 100 miles away, you could drive a car at 10mph and you'd arrive in 10 hours. If you drove at a speed of 100mph, you'd arrive at the same destination in only 1 hour. In each of these examples, the distance traveled is the same: you've gone 100 miles. However, the *demand* that you placed on the car's engine was very different! It takes a much more capable and expensive engine to power the car at 100 miles per hour than it does to power the one going only 10 miles per hour. Demand is a *snapshot* of what's being used at a certain time; your consumption is *usage over time*.



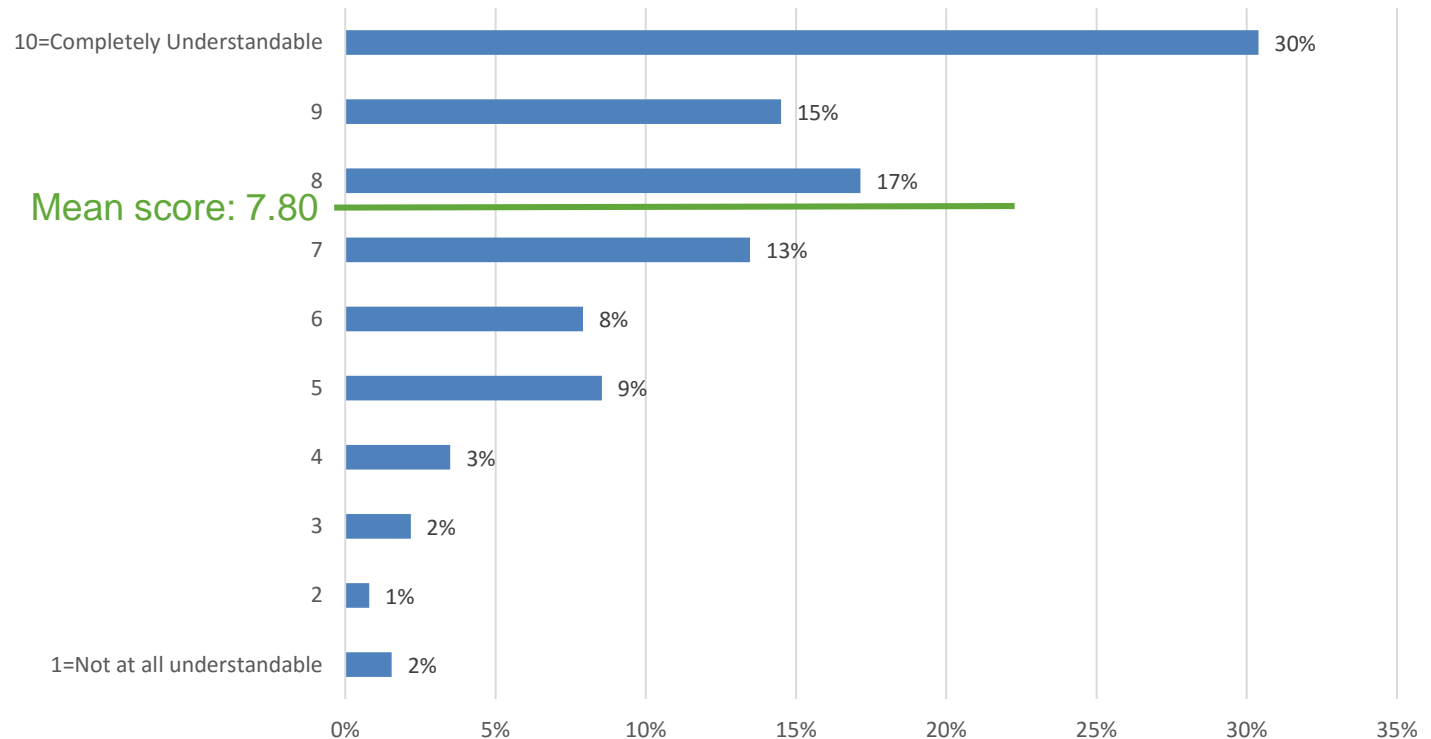
Here's another example: Suppose you want to go to Bowling Green from Glasgow. It's 32 miles away, so that distance in miles is your *usage* (or kilowatthours, if we were talking about electricity). On your way there, you start out from a dead stop and your top speed on the interstate is 70mph. That top speed is your *demand* (in kilowatts).



# Infotricity ranked lower on understandability out of the four utilities information

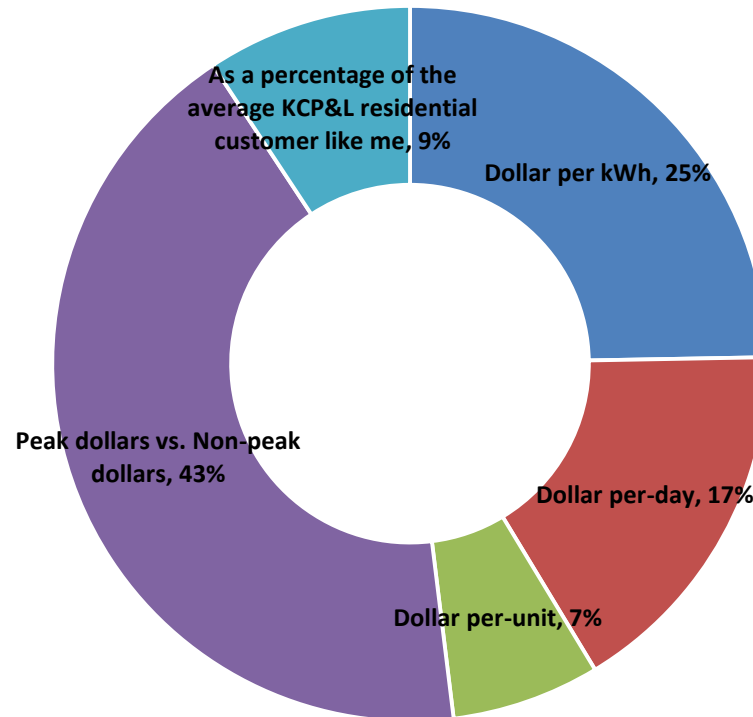
**Question:** Please review the following information. Once done, answer the question at the bottom of the page.

On a scale of 1-10, where 1 means you don't understand the information above and 10 means you completely understand the information, how understandable is the concept in the information?



# Panelists would like to see peak dollars versus non-peak dollars to understand their energy usage

**Question:** What would be the most understandable way to measure how much energy you're using?



Those 45-64 are twice as likely to be more interested in seeing peak dollars vs. non-peak dollars compared to Dollar per kWh



# P182 Members and Communications Council Invited to:

1. Conduct KCP&L/EPRI customer online survey and share results.
2. Collaborate on **future customer online surveys** (2-3 times a year)
  - Determine whether to conduct existing or new surveys
  - Determine topic areas of interest (i.e. grid, pricing, websites, environmental issues, AMI, etc.)
3. Collaborate on **benchmarking** analysis of utility online customer surveys or processes.
4. Collaborate on historic online surveys, with EPRI providing a **database of results** by topic.
5. Consider **other communication channels** to collaborate and conduct research (i.e. social media, focus groups, bill inserts, etc.)

*EPRI contact: Becky Wingenroth*

[wingenroth@epri.com](mailto:wingenroth@epri.com)

## Next Steps:

1. P182 Members and interested Communications Council members will receive an email to determine priorities and interests.
2. Results to be distributed after member input collection.
3. Invitation to conference call/webex for interested parties to plan for 2017 activities.
4. Update at P182 Understanding Electric Utility Customers meetings in February.

*EPRI contact: Becky Wingenroth*

[wingenroth@epri.com](mailto:wingenroth@epri.com)

# Further Q&A



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**Electric Power Research Institute**

3420 Hillview Avenue, Palo Alto, California 94304-1338 • PO Box 10412, Palo Alto, California 94303-0813 • USA  
800.313.3774 • 650.855.2121 • [askepri@epri.com](mailto:askepri@epri.com) • [www.epri.com](http://www.epri.com)