Trends and Opportunities in Residential Energy Management

February 6, 2020 1:00 PM CT





PARKS ASSOCIATES Agenda

- Effective ways of raising consumer awareness and familiarity of energy management solutions, programs, and tools.
- Adoption and impact of distributed energy products generators, electric vehicles, solar panels, battery storage.
- > Impact of smart home devices on energy use and utility rate structures.
- New partnerships driving interest, adoption, and customer satisfaction with utilities.



Webcast Recording Playback

Parks Associates invites you to view and listen to the webcast recording.

Click link to view recording:

https://attendee.gotowebinar.com/recording/6011617613000472588



Speakers



Richard Barone
Director of Strategic Consulting for
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Hawaiian Electric Company



Foued Barouni
Product Line Manager
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Abhay Gupta Founder & CEO Bidgely



Moderator
Jenny Roehm
Senior Manager, Utility Solutions
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About Parks Associates

30+ year history focused on consumer technology market

PARKS
ASSOCIATES

Surveys 10,000 U.S. broadband households each quarter

2,000+ executives attending Parks Associates event

Serves 500+ companies with research and consulting

Educate and inform by providing relevant and reliable consumer data and industry insights



Research Areas

Core Research Areas

Smart Home: Management & Safety

Home Security

Smart Home Products & Services

Smart Energy Management

Support Services

Wellness & Independent Living

Connected CE & Entertainment

CE Devices & Mobility

Entertainment Content

Broadband & Entertainment Services

Small/Medium Business

Support Services

Bring your own Devices (BYOD)

Cloud Services



Richard Barone

Director of Strategic Consulting for Customer Resources & Markets

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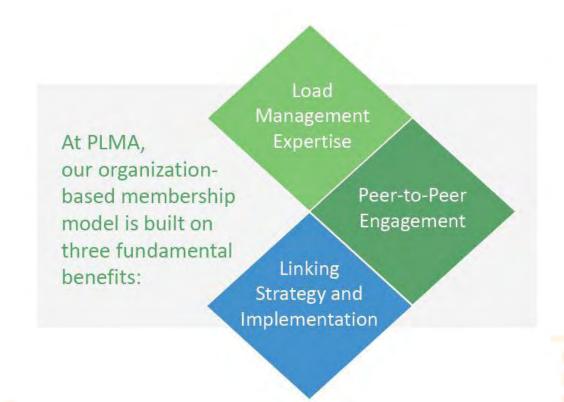
Schneider Electric





PLMA is the voice of load management practitioners...

- Energy utilities, solution providers, and trade allies share expertise in demand response and distributed energy resources.
- PLMA partners with industry allies to work toward a sustainable energy future.
- Interest Groups help members exchange lessons learned.



...in a powerful peer-to-peer network.



Thought Leadership & Publications



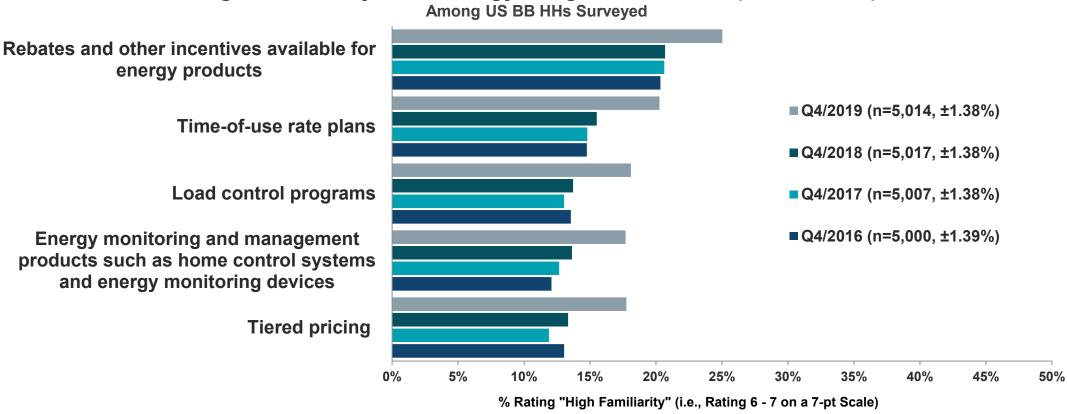




Effective ways of raising consumer awareness of energy management solutions, programs, and tools

Consumers are most familiar with rebates for energy-efficient devices.

High Familiarity with Energy Programs Offered (2015 - 2019)

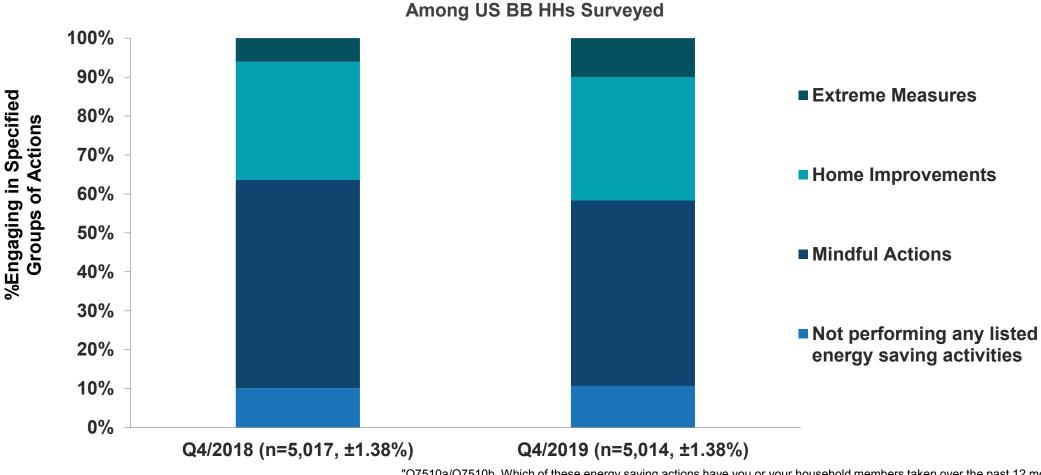


"Q7515. How familiar are you with the following programs?" Source: Multiple Surveys: American Broadband Households and Their Technologies | © 2020Parks Associates



Most consumers perform only mindful energy-savings actions.





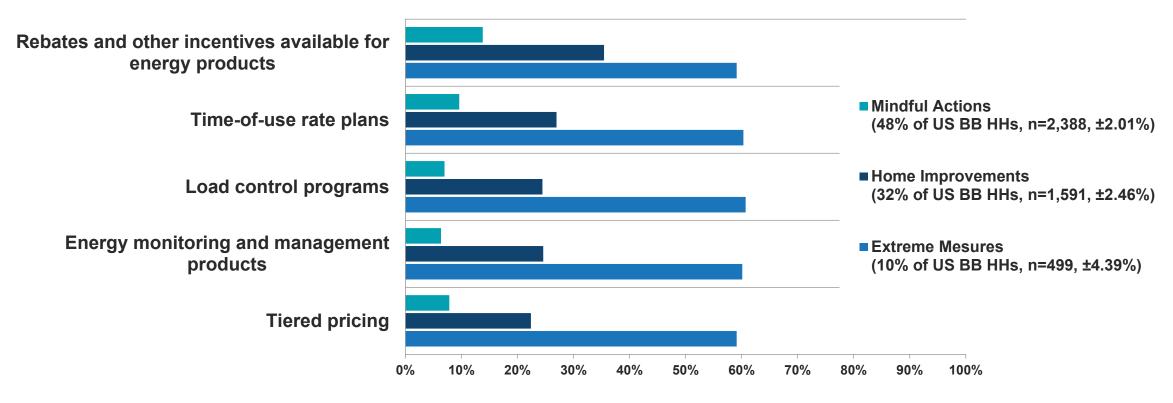
"Q7510a/Q7510b. Which of these energy saving actions have you or your household members taken over the past 12 months?" Source: Multiple Surveys: American Broadband Households and Their Technologies | © 2020 Parks Associates



Awareness differs among energy segments.

High Familiarity with Energy Programs Offered by Energy Segments (Q4/19)

Among US BB HHs in Specified Group



% Rating "Very Familiar" (Rating 6-7 on a 7 Pt. Scale)

"Q7510a/Q7510b. Which of these energy saving actions have you or your household members taken over the past 12 months?

"Q7515. How familiar are you with the following programs?" | Asked of a Subgroup of 5,014 US BB HHs

Source: American Broadband Households and Their Technologies Q4 2019 | N=10,021, ±0.98% | © 2020 Parks Associates





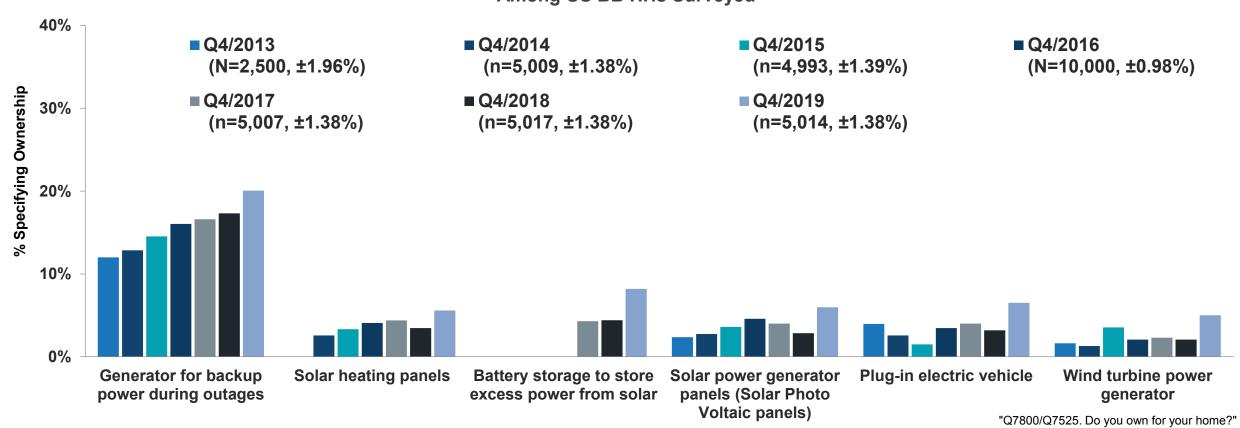
Effective ways of raising consumer awareness of energy management solutions, programs, and tools



Adoption of distributed energy products remains low.

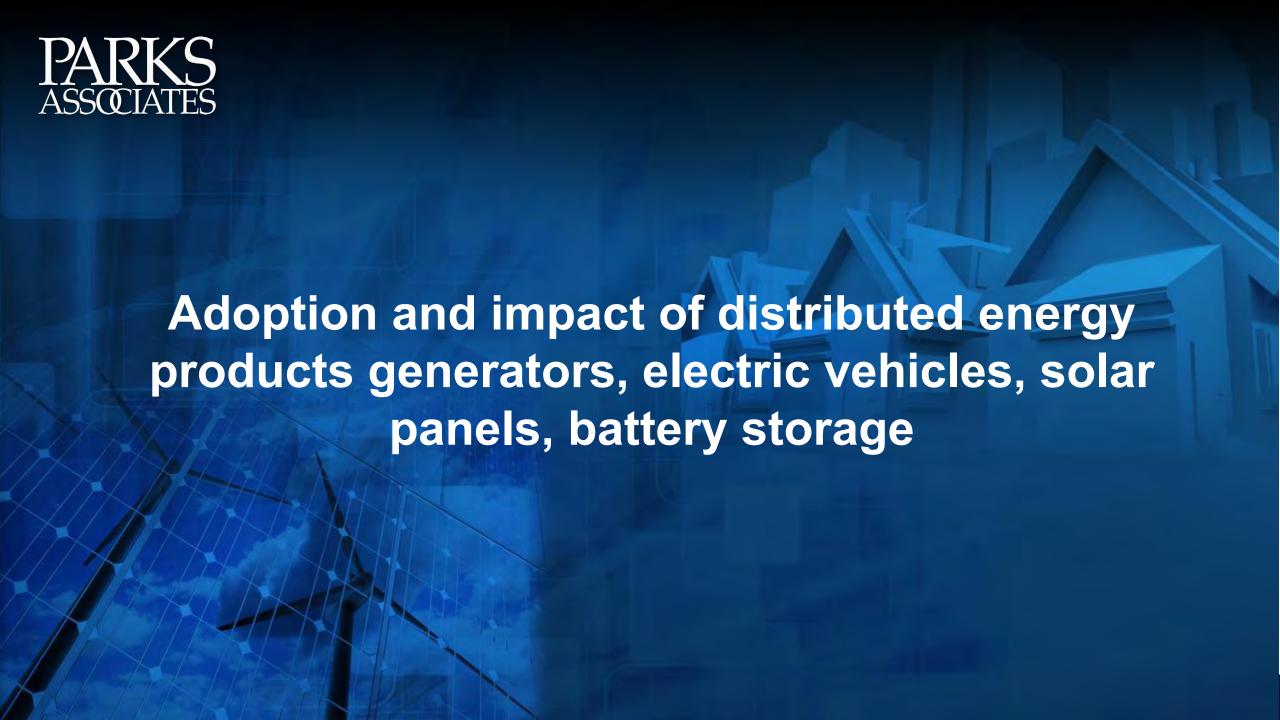
Energy-Efficient Equipment or Vehicle Ownership (2013 - 2019)

Among US BB HHs Surveyed



"Q7800/Q7525. Do you own for your home?" Source: Multiple Surveys: American Broadband Households and Their Technologies | © 2020 Parks Associates

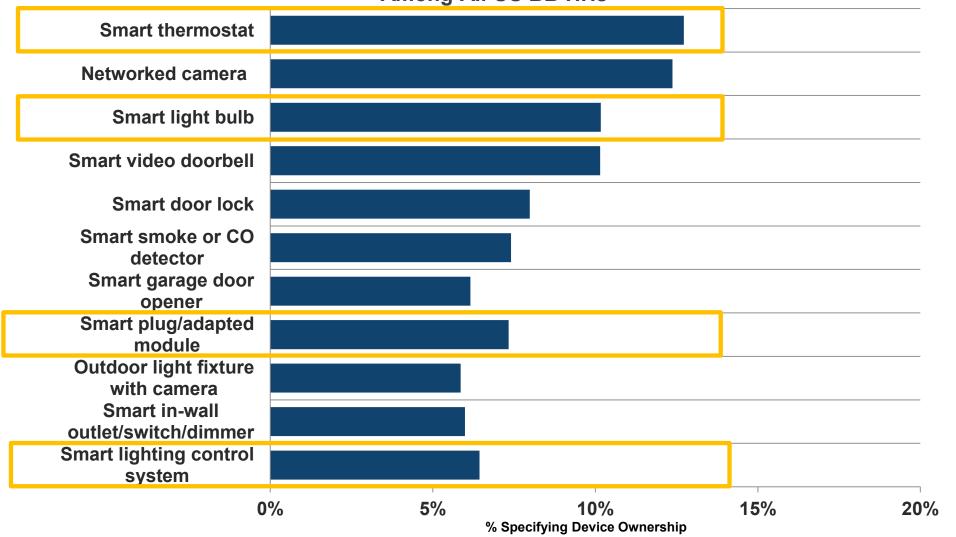






Adoption of Smart Home Devices (Q4/2019)





29% of US broadband households own at least one smart home device or appliance

11% own at least one smart appliance

6% have a smart refrigerator

Source: Multiple Surveys: American Broadband Households and Their Technologies | © 2020 Parks Associates



Energy-efficiency use cases.

Smart Thermostats

- Adjusts based on "at home" status
- Reacts to weather conditions

68

Smart Plug

 Identifies the amount of energy used by devices and appliances



Smart Lighting

- Turns off automatically
- Informs consumers about energy use



Smart Refrigerator

- Adjusts settings automatically
- Provides tips for energy management







Energy provider and smart home partnership use cases.

Increase customer engagement

- Utility and smart meter data analytics companies
 - Help consumers understand consumption patterns
 - Provide personalized solutions to curtail energy usage bidgely



Integrate smart products into DR programs

- Direct integration with smart home solution provider
- Integration with demand response aggregators
 EnergyHub AutoGrid



Cross-marketing

- Preferential retail shelf space
- Manufacturers promote energy management capabilities
- Nest programs
 - Get a Nest Thermostat
 - Rush Hour Rewards















Learn more at www.peakload.org



Consumer Demand for Smart Energy Solutions

This research provides insights on consumer interest in energy management products and services, including features, price sensitivity, and incentives for energy efficiency solutions.

Topics

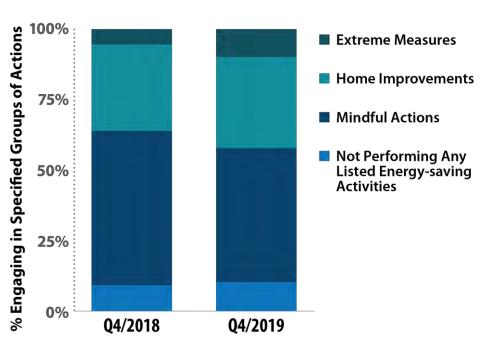
- Consumer Energy Segments Demographics and Device Ownership
- Energy Programs and Tools
- Demand Response
- Distributed Generation and Storage
- Smart Energy Products: Smart Thermostat, Smart Lighting, Smart Plugs, Smart Appliances
- Appeal of Energy Management Features

Methodology

All research deliverables are derived from Parks Associates quarterly surveys of 10,000 US broadband households.

Energy-Saving Action Segments (2018-2019)

US Broadband Households



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Join us at Smart Energy Summit, Feb 17-19 in Austin



Keynotes



Rob Davis General Manager, Intrusion **Johnson Controls**



Rudy Garza Interim Chief Customer **Engagement Officer CPS Energy**



Abhay Gupta Founder **bidgely** & CEO **Bidgely**



Debbie Kimberly VP, Customer Energy Solutions & Corporate Communications





Brad Russell Research Director, **Connected Home Parks Associates**



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Thank You



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