# **Innovation Showcase: Focus on Virtual Peaker**

## **E Source Utility Innovation Partners Program**

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www.esource.com



# **E Source Utility Innovation Partners Program**

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## What's the Innovation Showcase?

- Monthly web conference series to:
  - Highlight privately owned companies with innovative products, services, or business models
  - Help utilities understand how entrepreneurs and investors view markets
  - Stimulate new utility thinking, fresh ideas, and different points of view
  - Explore market-driven approaches and expose potential opportunities
- Note: This is not a company endorsement and we've received no compensation

# **EnerTech Capital**



- Longest continuously operating venture capital (VC) firm with a sector focus on the energy and technology industries
- Origins in a US-based power company
- EnerTech Capital has:
  - Made VC investments in 71 companies
  - 36 investment exits
  - Assessed more than 12,000 business plans
  - Approximately \$500 million in capital under management

## **Innovation Showcase format**

## 25-minute company presentation, covering:

- Company description
- What problem(s) does the company solve
- Target market
- Quantitative value proposition and experience to date
- Competition
- Unique attributes
- Go-to-market strategy
- Business model
- Technology or product roadmap



## Virtual Peaker Introduction EUIP Innovation Showcase – June 19, 2018



## Virtual Peaker Provides a Platform That Helps Utilities

Engage their residential customers

Reduce operational costs

Find new business models

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Founded: 2014

Located: Louisville, KY

**Customer: Utilities** 

Business Model: SaaS

Team:

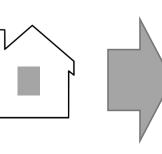
✓ 10+ Years Residential Energy Management
 ✓ 15+ Years Software Development / Design
 ✓ 10+ Years Consulting in Energy Industry



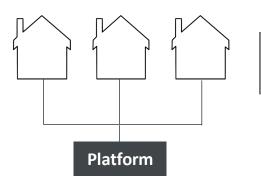


## The Next Evolution of DSM

#### **Direct Load Control**



**Basic DR** 

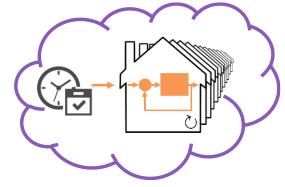


One-way communication

- High cost
- Load shed only
- Zero touch with customer

- Two-way communication
- Manage events in aggregate
- Limited device flexibility
- Low touch with customer

#### **Real-Time Control**



- Device-optimized
- Manage events at household level
- Infinite device types
- High touch with customer



The World's Most Advanced Distributed Energy Management Platform

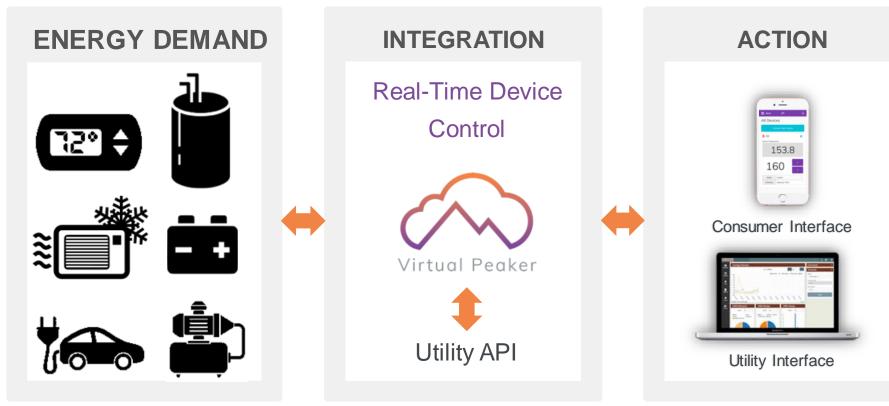
- Bring-Your-Own Anything
- DR Event Scheduling Across All Devices
- Easy Integration with Existing Systems
- Real-Time Streaming Data on All Devices
- Household Optimization

Arbitrage Devices Based on Market Signals





## How We Do It



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## **Our Partners**





## **Demand Response Use Cases**

## Bring Your Own Device

- Enroll existing smart devices, e.g., residential batteries, thermostats, water heaters
- · Multiple device vendors in one platform



#### **Integrated Device Control**

- Reduce demand during peak periods
- Save money for both the utility and the customer







## **Advanced Control Use Cases**

### Time-of-Use Water Heater Optimization

- Read time-varying retail price
- Learn users' behavior
- · Adjust schedule based on behavior



Sacramento Municipal Utility District

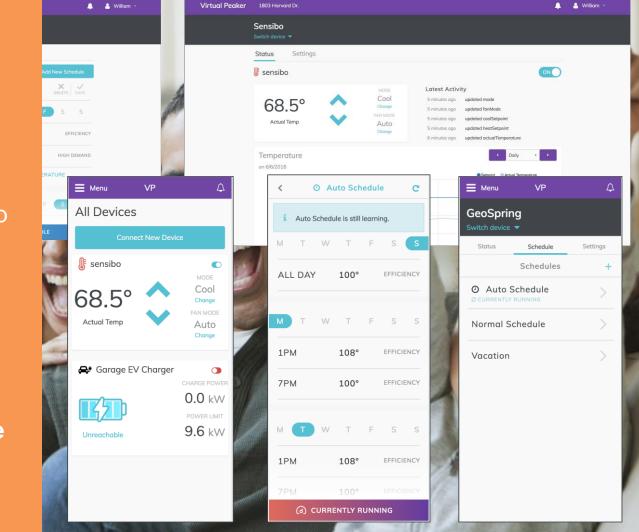
## Real-Time Market Price Energy Arbitrage

- Read real-time market price
- Charge when price is low
- Discharge when price is high



## Customer Engagement

- All Devices in One App
- Utility Branding
- Messaging
- AMI and Billing data
- A fully integrated customer experience





## Customer is King Once Again

Engagement	Cost Reduction	Alternative Models
<ul> <li>Smart Home support / saving customers money</li> </ul>	<ul> <li>Reducing residential peak demand with minimal infrastructure costs</li> </ul>	<ul> <li>Energy Arbitrage – specifically in disintegrated markets where distributed resources can be</li> </ul>
<ul> <li>Increased touch points and</li> </ul>		charged/deployed based on
transparency	<ul> <li>More effective load balancing and management of</li> </ul>	Locational Marginal Pricing
<ul> <li>Become "trusted energy advisor" to residential</li> </ul>	intermittent sources	<ul> <li>Distributed System Support Services – helping customers</li> </ul>
customers	<ul> <li>Device Integration – being able to bring devices with different</li> </ul>	with device financing, installation, aggregation, etc.

• Energy services and program design to smaller utilities

load profiles into the same

platform



# Virtual Peaker

www.virtualpeaker.io



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## **Next Innovation Showcase**

#### Learn more and register at www.esource.com/events

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## **Utility Innovation Partners Program goal**

## To enable utility innovation, through:

- Unmatched emerging market intelligence and insight
- Cost-efficient access to emerging company deal flow
- Networking with those who are driving energy innovation today



## What's the Utility Innovation Partners Program?

- Unique strategic partnership between E Source and EnerTech Capital
- Provides utility partners with specialized access to:
  - Competitive market intelligence from North America's most experienced energy venture capitalists and market analysts
  - Best practices and leading research around utility strategic innovation program design, development, and execution
  - Exclusive networks of utility, entrepreneurial, investment, banking, and corporate leaders
  - Top-tier energy venture deal flow and early-stage company and market insights

# The right fit?

## This program is ideal for utilities that are:

- Considering development of a direct investment, innovation, or strategic partner development program
- Wanting visibility into emerging energy technologies and services
- Needing insight into evolving competitive business models
- Desiring a better understanding of the utility commercial customer landscape
- Looking to understand energy company and investor perspectives

# We provide immediate and in-depth exposure to emerging trends from the inside



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