

Connecting Conservation with Comfort



# Working Together on DR and Smart Grid: The Ontario Story

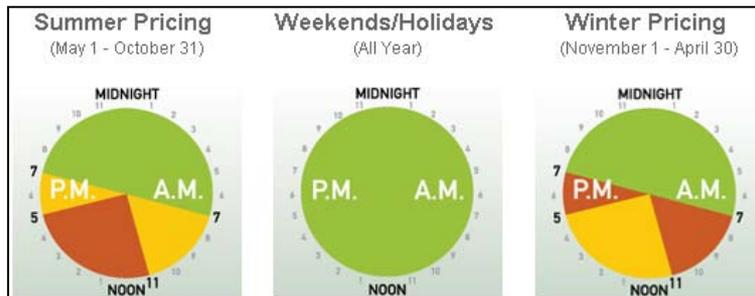
Alan Clarke, Account Director, Utility Services

November 1, 2012

# Provincial Landscape



- ~ 80 LDCs serving Ontario
- ~ 4.3 million Smart Meters installed
- Mandated Time-of-Use Rates



Regulate Price Plan Time-of-Use Prices	
Off-peak Price:	6.5 ¢/kWh
Mid-peak Price:	10.0 ¢/kWh
On-peak Price:	11.7 ¢/kWh

- Provincially Sponsored Conservation Programs

# Energate's Consumer Connected Demand Response Approved For Ontario



## peaksaverPLUS™

Utility Load Management System



Utility has control and real-time information.  
Utility can manage demand and shape load.

Consumer Portal (Desktop and Apps)



Consumer has control and real-time information.  
Consumer conveniently manages energy use & home comfort.

“CORE”  
Middleware



1-way Demand Response over Digital Radio

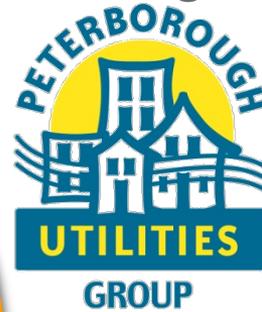
2-way Demand Response over AMI

2-way Demand Response over Broadband



←·········· Energate hardware can be (re)configured in the field via software ·········→

# Peterborough Utilities



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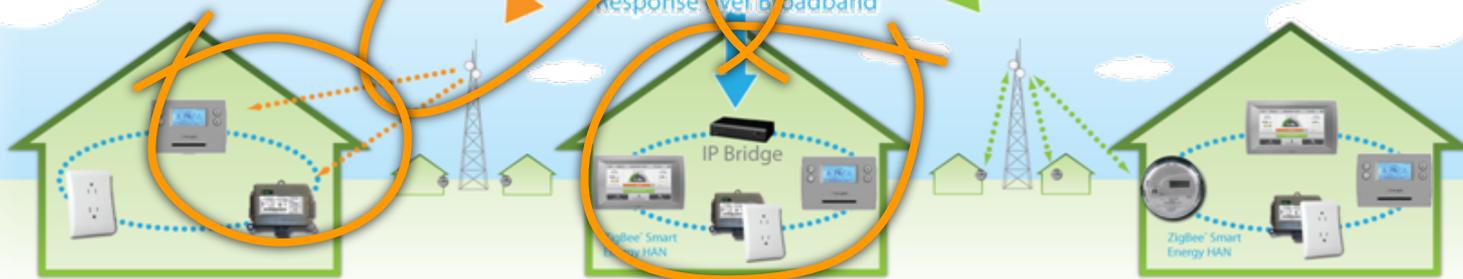
“CORE”  
Middleware



1-way Demand Response over Digital Radio

2-way Demand Response over AMI

2-way Demand Response over Broadband



←·········· Energate hardware can be (re)configured in the field via software ·········→

# PowerStream

## Power Stream

Utility Load Management System



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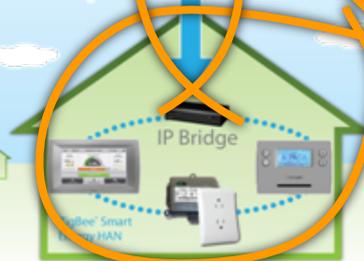


1-way Demand Response over Digital Radio

2-way Demand Response over AM

2-way Demand Response over Broadband

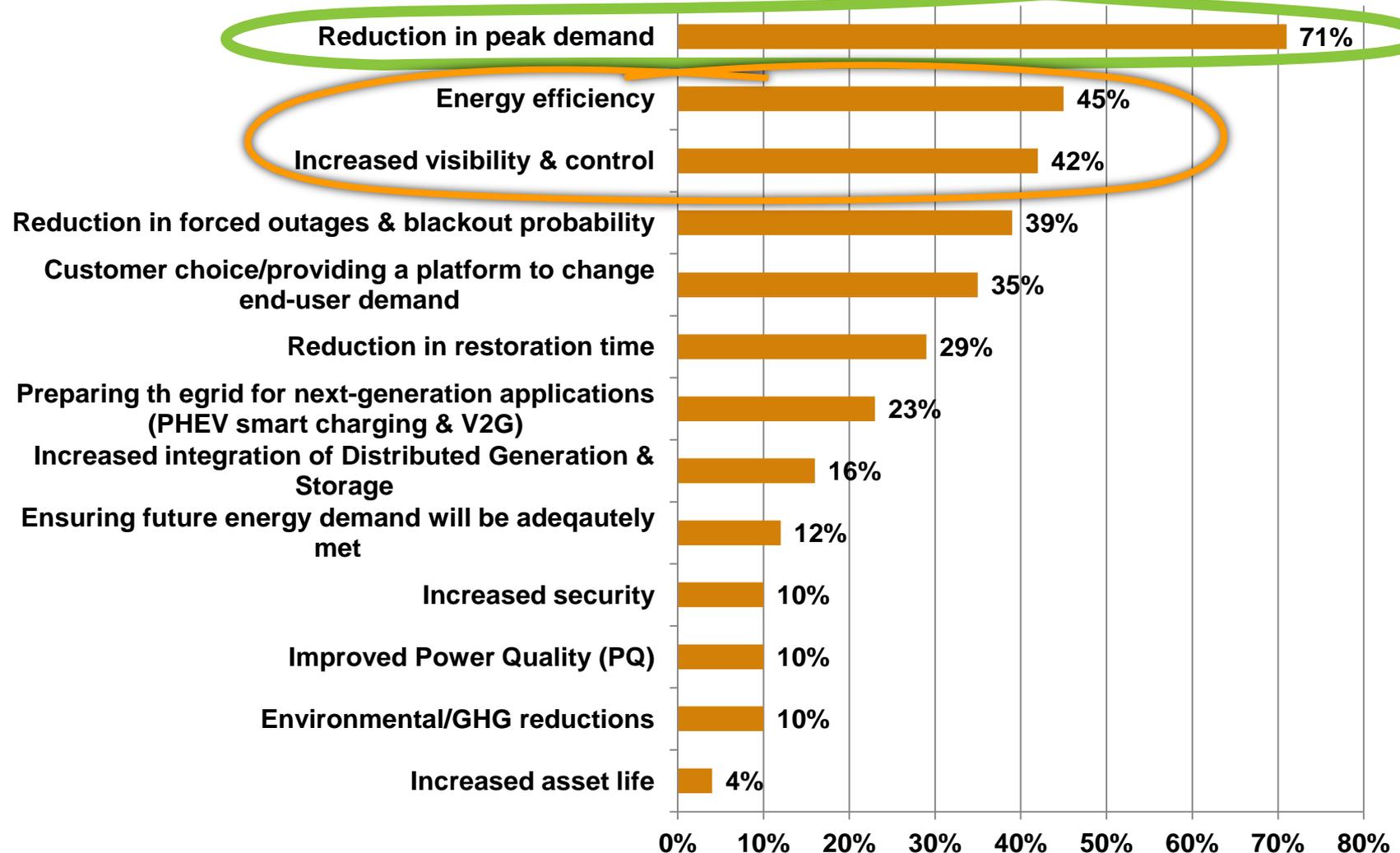
**SENSUS**  
The Measure of the Future



←----- Energate hardware can be (re)configured in the field via software -----→

# Top Benefits of the Smart Grid

What are the Top 3 benefits of implementing Smart Grid technologies?  
(Utility survey - multiple selections allowed) Source: GTM Research

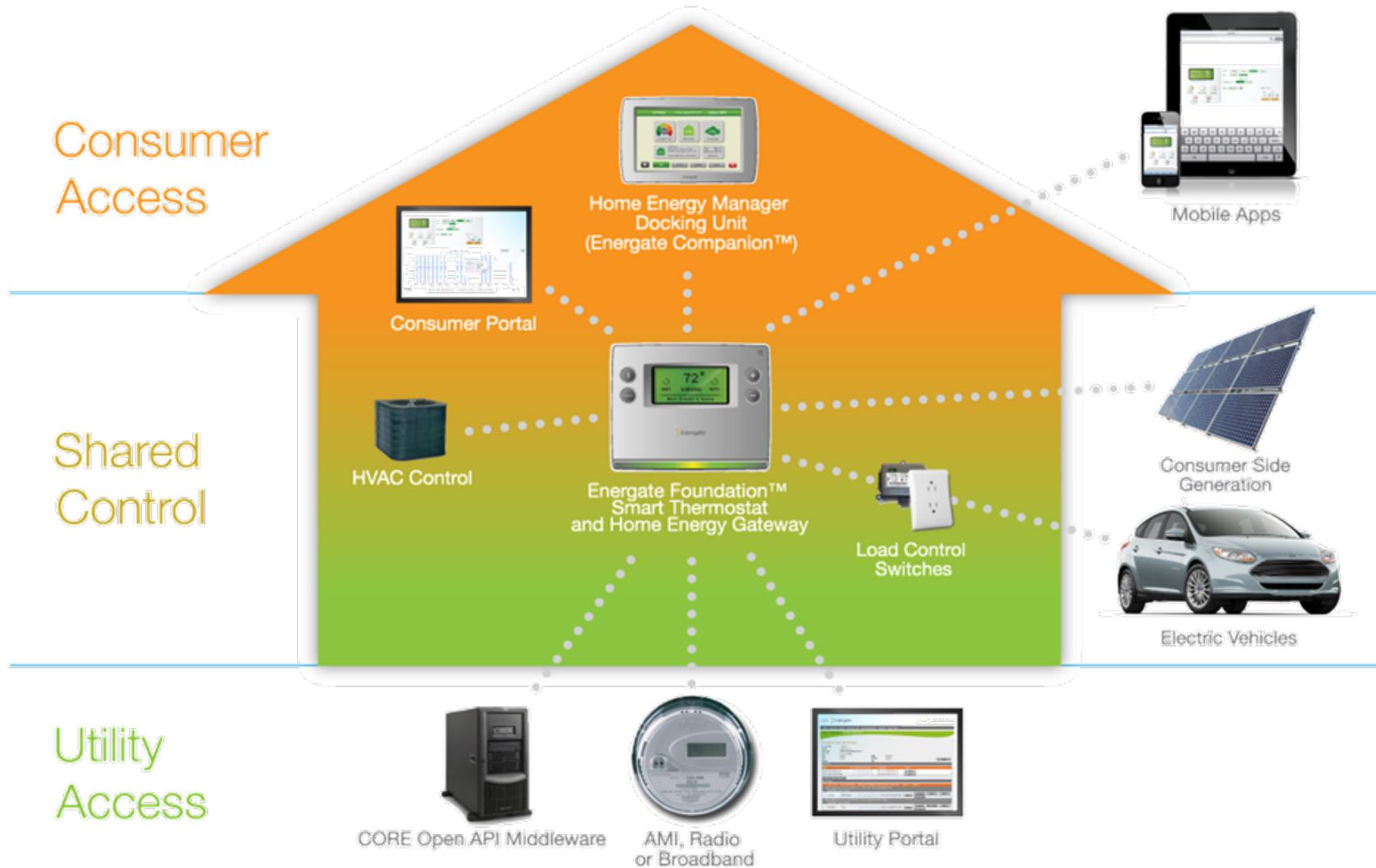


# Minister's Announcement: Ontario Smart Grid Fund (SGF)



- June 11, 2012: Minister Bentley, Veridian CEO and Energate CEO announce \$5.8M joint program for 'Consumer Engagement for the Smart Grid' (CESG)
- The CESG program is based on Energate's "Build a Foundation for the Future" vision
  - Up to 1,000 homes in Ontario with Energate's CCDR solution
  - Consumer HEM technology that leverages Ontario's peaksaverPlus and Smart Meter programs
  - Measuring consumer engagement for:
    - Smart Thermostats and Home Energy Gateways
    - Load switches, both wired and plug-in
    - Home Energy Managers
    - Web portals
    - Mobile Apps
  - Market and technology evaluation
- Partnering with Hydro Ottawa, Hydro One, Peterborough, PowerStream, Cambridge and Veridian LDCs

# Build a Foundation for the Future



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