

Smart Grid Benefits and Applications

Rick Tonielli

Sr. Energy Efficiency Program Manager



Smart Meters

- ✓ Enable two-way communication between ComEd and its customers
- ✓ Automatically send electricity usage information to ComEd, helping to reduce the number of estimated bills
- ✓ Help ComEd monitor electricity usage and power quality on the smart grid to reduce the number of interruptions in electric service
- ✓ Provide next-day access to electricity usage information through secure online energy management tools
- ✓ When the smart grid is complete, smart meters will notify ComEd when outages occur and when power is restored – which means power can be restored more quickly





Energy Management Tools

Data from smart meters enable ComEd to provide customers with:

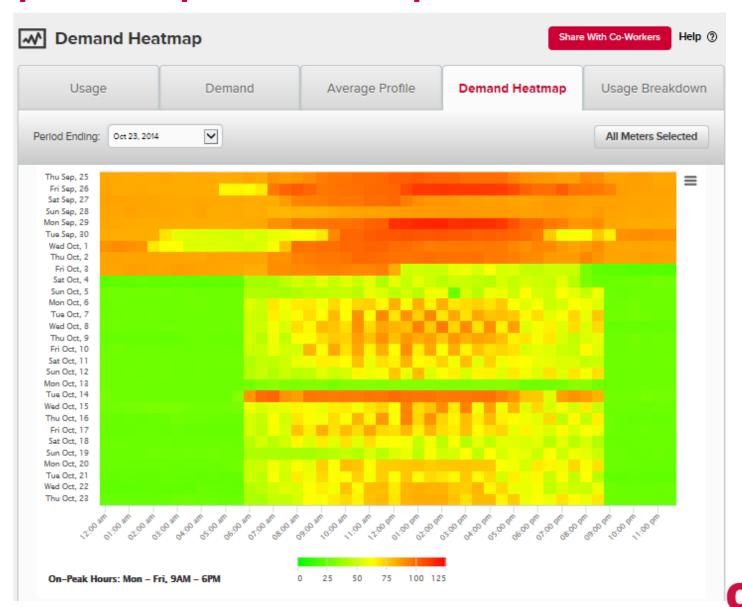
- ✓ Easy access to large amounts of energy usage data
- ✓ Analysis of usage data to identify energy efficiency opportunities
- ✓ Ability to share their data with third parties

Examples:

- ✓ Business Energy Analyzer (BEA)
 - ✓ Free online energy analytics tool for all business customers with smart meters
- ✓ Energy Usage Data System (EUDS)
 - √ Support for City of Chicago benchmarking ordinance
- ✓ Green Button Download and Connect



Impact of Operational Improvements - BEA



An Exelon Company

Impacts of ComEd Energy Efficiency Program

Customers have saved

\$2.4 billion

on their electric bills

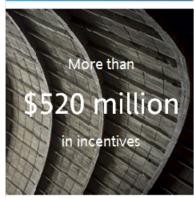


More than

99.7 million

efficient bulbs sold







More than
2.9 million

cars off the road



More than

31 billion

pounds of CO₂ reduced

More than

22.3 million

net MWh saved



More than

13.2 million

acres of trees planted



