

# LA DEQ GREEN BUSINESS EXPO

## August 25, 2010



Utiliworks Consulting, LLC.

**UtiliWorks™**

Building Smart Utility Solutions

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# Preparing For Your Energy Future



Remote Disconnect



Plug In Electric Vehicle



Thermal Storage Unit



Photo Voltaic

## Challenge

- Identify your timeline for change?
  - 3 years
  - 5 years
  - 10 years
  - 20 years
  - Not in my lifetime
- Can we really afford to invest in our energy future today?
- How will energy change affect my family's future?
- How do Smart Metering and Smart Grid Initiatives play into this ?

## Who is Utiliworks

- **Utiliworks Consulting** is a professional services company
  - Engineers, IT specialists, business process analysts, wireless communications, project managers
  - Customers: utility clients, technology developers, regulatory agencies
  - Projects: advanced metering systems, smart grid applications, communications
- **Utiliworks Insight** is a web-based assessment and analysis tool
  - Infrastructure Evaluation
  - Technology Readiness
  - Organizational Focus and Alignment
  - Industry Best Practices

## Utiliworks Vision

The vision of our company is to use technology to enable:

- customers to manage the ever increasing cost of electricity, water and gas bills
- utility personnel to redesign their business processes to produce cost savings and reduce losses
- communities to enact “Green Initiatives” that make sense for the economy and the environment



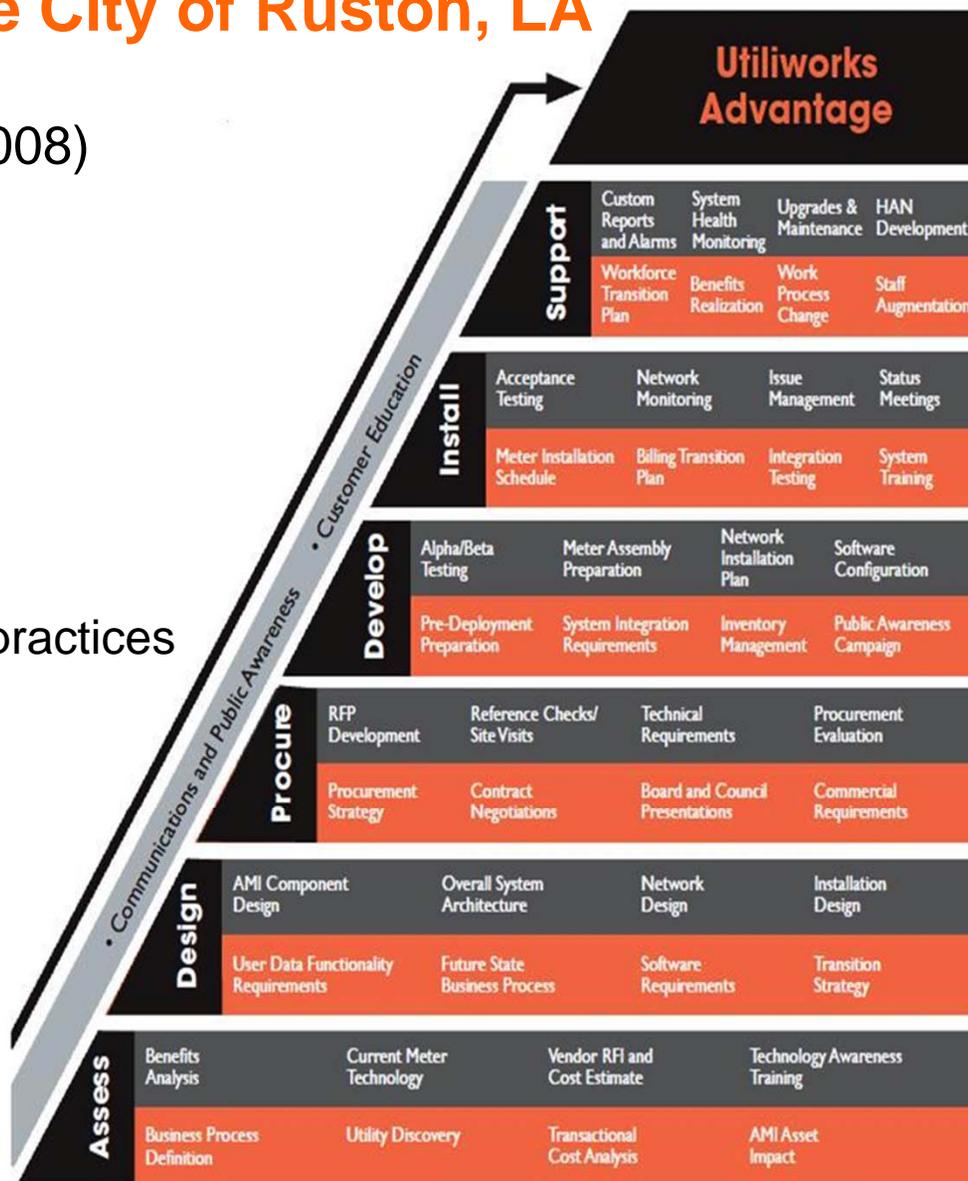
**“The Glue” that  
enables smart  
utility solutions**

*Our Mantra*

# Demonstration Project: The City of Ruston, LA

- Business Case Development (2008)
- Pilot Project (2009)
- SGIG Win (2010)
- Utiliworks Advantage
  - Technology Deployment Model
  - Designed around industry best practices

**UW Insight** 



## Customer Controls

### Customer Systems Improvements:

The customer systems are expected to reduce customer service calls by 70% within 3 This will result in an operational cost savings to the City of over \$330,000. The system will also provide the City the conduit for educating its customers on energy saving devices and tips which will help the City to reduce consumption by 5%. The design will allow Ruston to offer system-wide demand side management capabilities to their customers-



- Reduce Customer Service Costs by 30%
- Consumption reduction of 5%
- Remote Connect/Disconnects
- Kiosks and Pre-Paid Accounts

## Loss in the grid

**Loss minimization:** The Smart Grid Design includes voltage control which improves energy conservation by reducing load demand in both peak and non-peak periods of operation by the distribution system. Additionally, the DMS improves the power quality of the energy supply using load-flow-based feeder analysis and control. Figures below show an example of the reduction of feeder Kilovolt-ampere Reactive (KVAR) losses for an actual feeder case before and after loss minimization control.

Figure 4.2 Example of annual feeder losses BEFORE PRISM's loss minimization

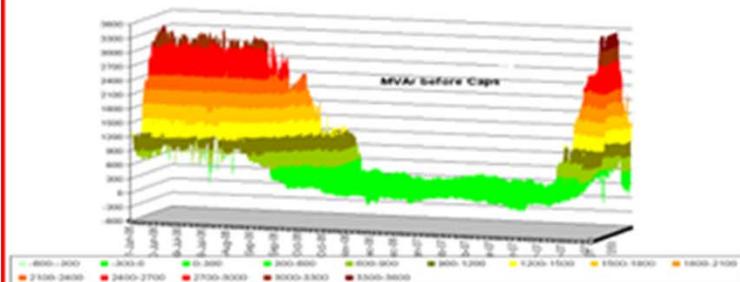
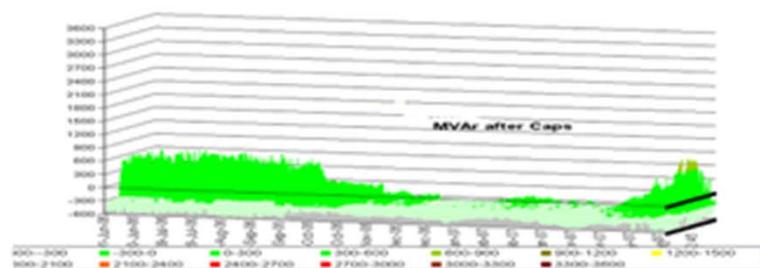


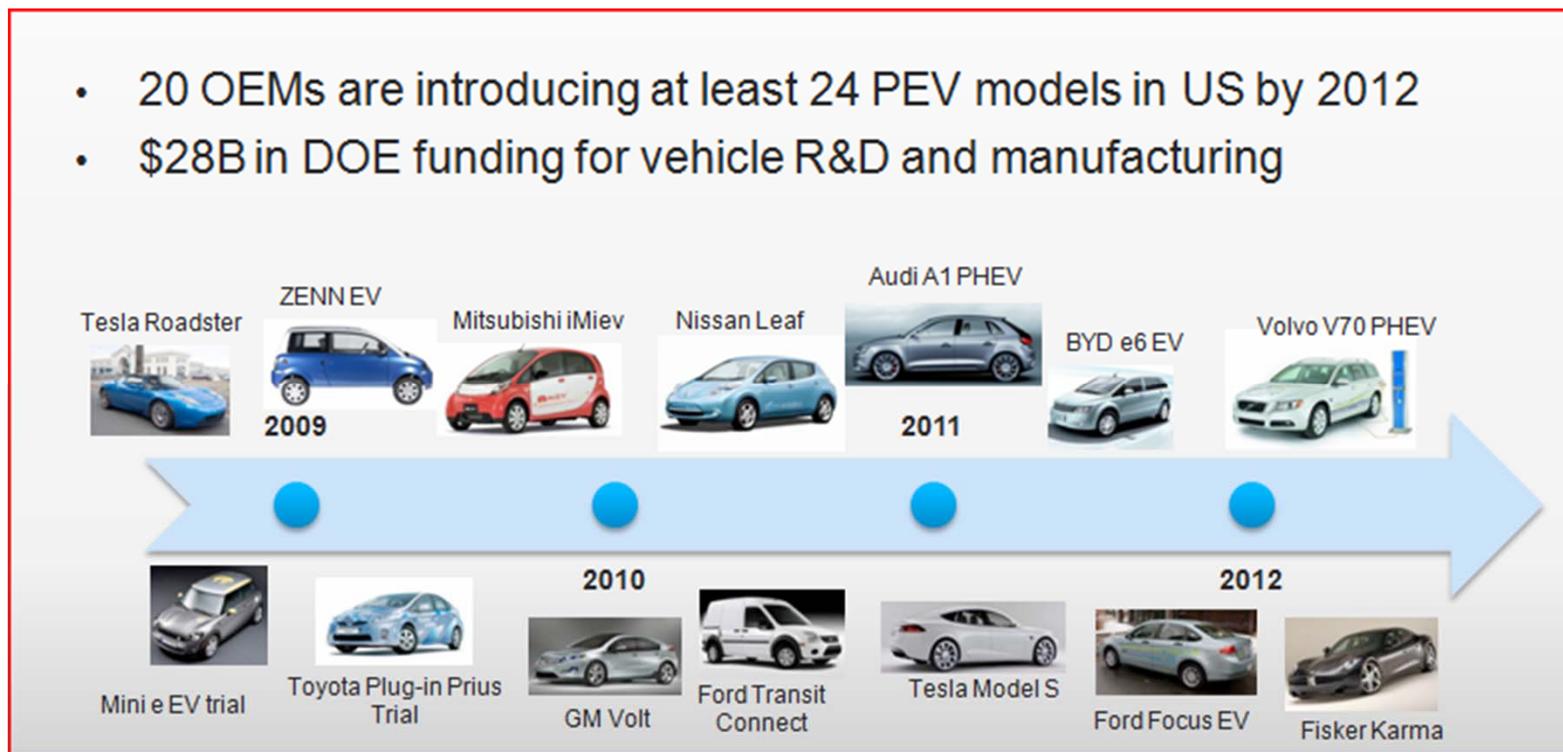
Figure 4.3 Example of annual feeder losses AFTER PRISM's loss minimization



- Voltage Control
- Right-sizing equipment
- Targeting 2-4% reduction

## Electric Vehicle (EV) Preparation

- 20 OEMs are introducing at least 24 PEV models in US by 2012
- \$28B in DOE funding for vehicle R&D and manufacturing



- Major OEMs introducing EVs to US
- Charge Spots
- Battery Issues
- 10% of the market in 10 Years

The image shows the Utiliworks Insight logo and a background illustration. The logo text is white and orange, set against a dark red background. The background illustration features a glowing lightbulb with a clock face inside, and several power line towers in the distance, all set against a red and orange sunset sky.

## Utiliworks Insight™

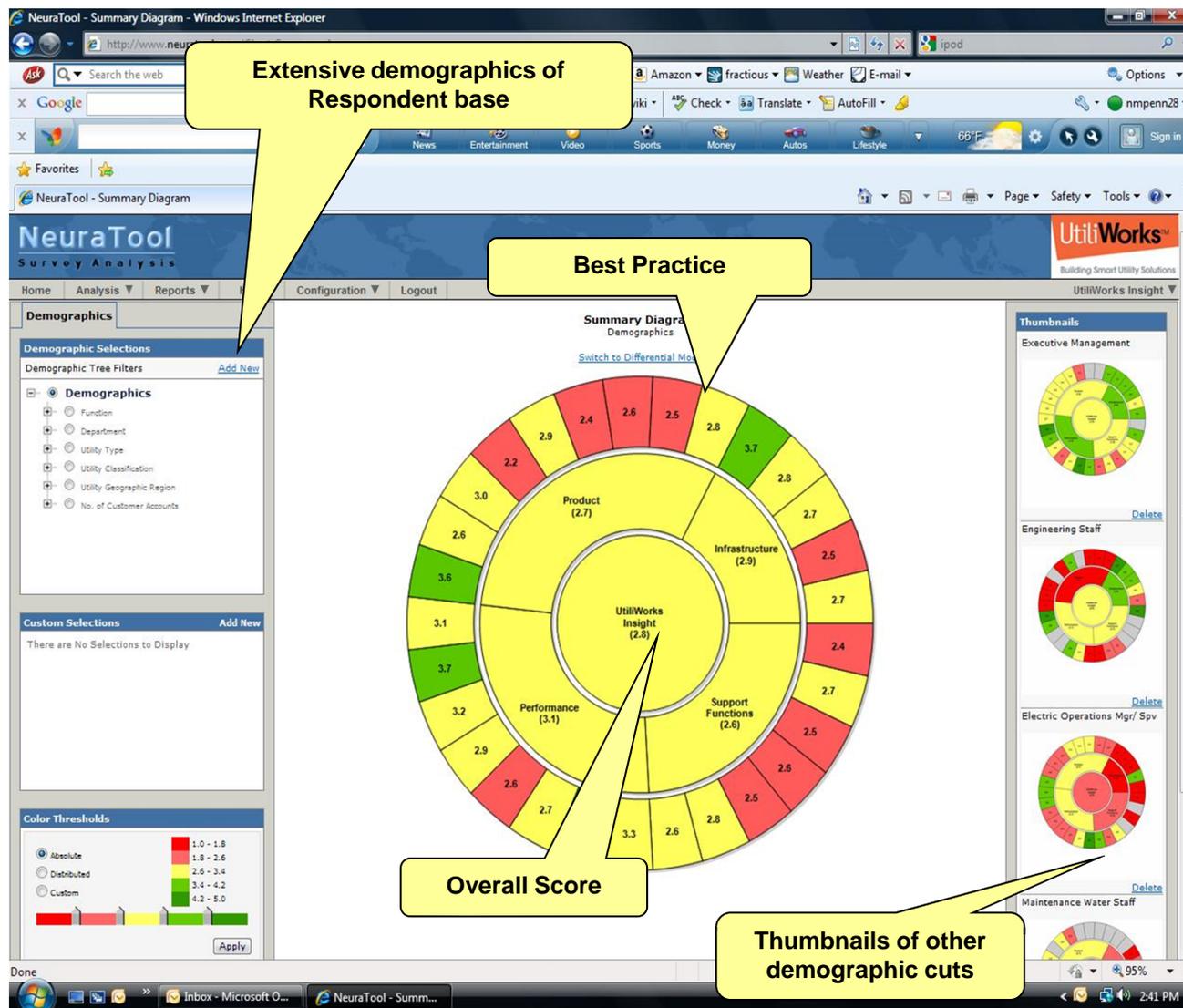
A Web-Based Assessment  
and Analysis Tool for Utilities

Utiliworks Insight utilizes web-based technology and a set of established industry best practices to assist the utility in learning about their current reality related to infrastructure, processes and behaviors.

- Determine improvement opportunities
  - Identify long-term business risks
  - Understand specific performance gaps
  - Recognize workforce productivity based on direct employee input
- .....Resulting in major cost savings and improved performance*

# Insight Summary Chart

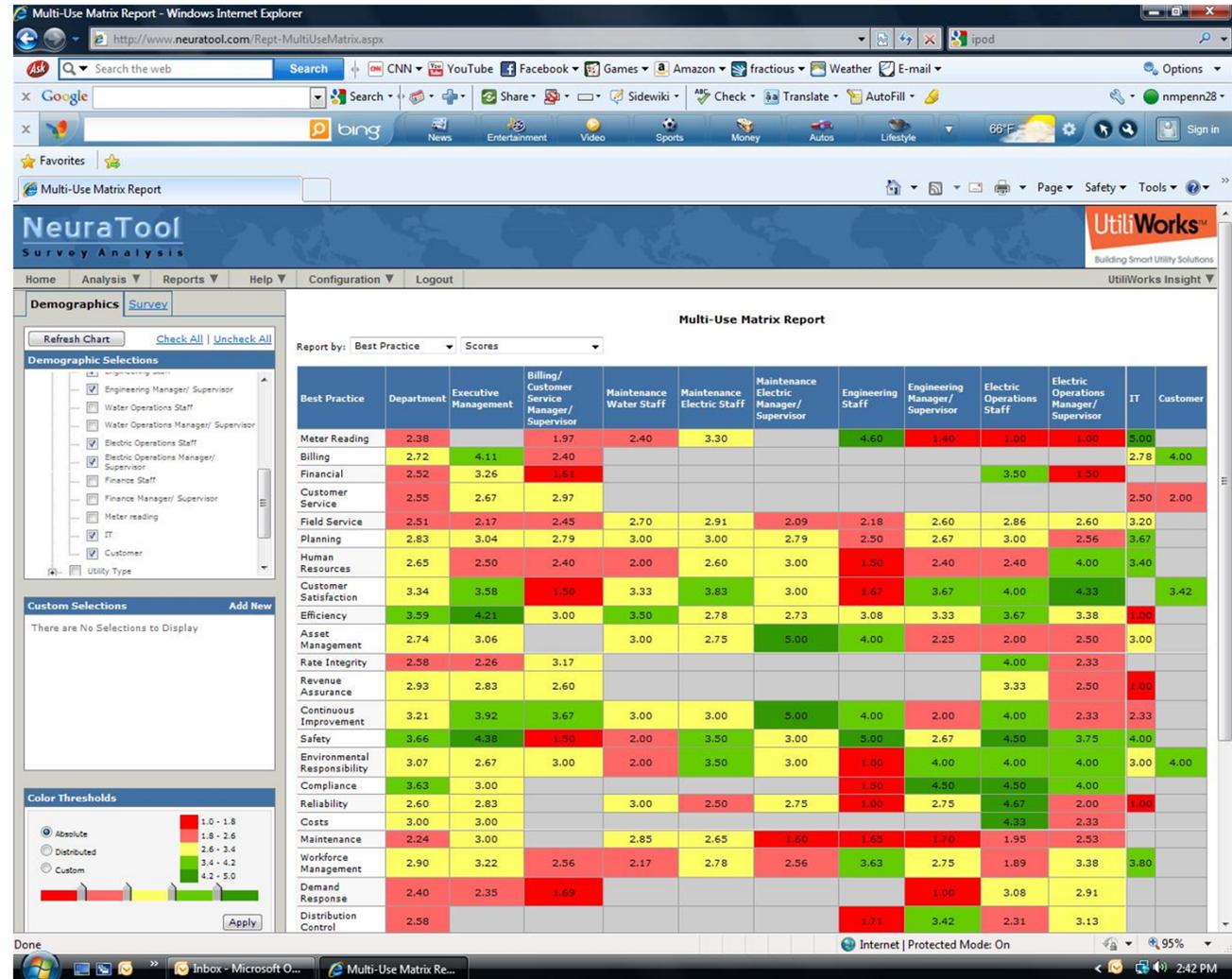
- Shows all of the scored data in one view for any selected demographic cut
- Color coding allows the user to quickly form strategic impressions and improvement concepts
- Popup window-contains a detailed description of the Best Practice



Editorial by Neurametrics

# Comparative Viewpoints on the same issue

- Compares sets of scores for several demographic levels
- Direct comparison of Best Practice, Category or Question scores for all key areas of the organization
- Allows management to allocate resources from pockets of strength to areas of weakness



## Closing Remarks / Request

- Identify your timeline for change
- The Glue
- Ways we can help
- Ways you can help us

## **THE END**

### **For More Information Contact:**

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