

## Helping the Utility Understand the Consumer

# Helping the Consumer Understand Energy

#### Painting a Portrait of Energy

#### June 2010



Create Your Intelligent Infrastructure™

www.Aclara.com

#### Consumer Knowledge Starts with a Smart Grid Vision



### **Engaged Customers**

Connecting the consumer to beneficial utility programs and services through a variety of communication channels

### **Smart Utilities**

Leveraging the best available data through advanced analytics and home biometrics



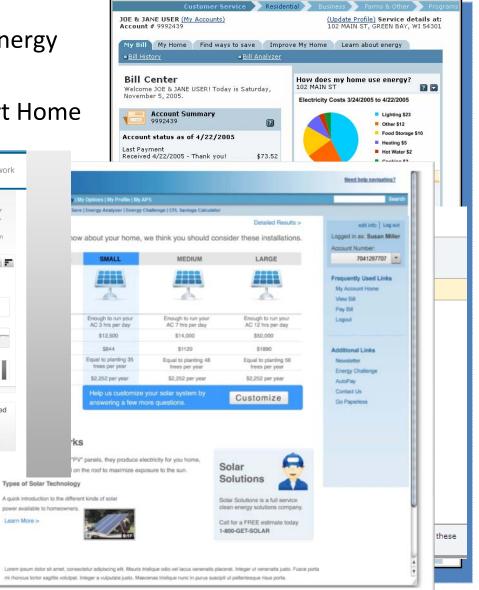
## Aclara Energy Portrait Vision

- Helping the Customer to understand Energy Usage
- Helping the Customer enable the Smart Home with Solar program support

Homo Aroa Notwork

105 Culic	Jones Gap Rd bowhee, NC 28723 ount: 1656177121		Today's Usag 8.9 kV		\$	Dollars	Spent	MAY 17 3:31 pm
Actions	5				Today	y This Month	This Week This Year	
💉 Profile		Jan Feb 2010	Mar Apr	May Ju 20		Aug Oc	t Nov Dec	
Eudget		kWh				stat Adjustm np Setting 78		Usage
Energy Use	a	3.00			2			Daily
Goals		2.00 1.50 1.00		L	1			
Alerts (2)		.50	6am	120		6pm	12am	Comparison
<b>6</b> 82	view all >	1200	Vern			- Opin		t Hours Saved
Come and	1° Low 79°	Your BEST Day	y: \$7	-	ORST Day	: \$22	18 :	309

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## HAN Web Portal

- The HAN web portal will be an essential tool for delivering AMI benefits directly to your customers. Customers will be able to monitor gas use, control their thermostat, and manage their gas budget
- Monitor Electric / Gas / Water usage
  - Whole house
  - Furnace
  - Water heater
  - Clothes dryer
- Thermostat Control (Zigbee/WiFi)
  - Monitor Set point
  - Monitor actual temperature in house
  - Monitor Outdoor temp.
  - Adjust set point
- Manage the Utility Budget
  - (use per day, week, month, etc)
  - Set a utility budget
  - Monitor your budget
  - Budget alerts
- Predictive and Comparative Information
  - Home Biometrics help the consumer understand their homes energy efficiency



## Aclara ENERGYprism

- USI Internet Services integrated to ENERGYprism
- Other 3<sup>rd</sup> Party devices integrated to ENERGYprism
  - Intwine Connect with WiFi
    - PCT
    - IHD
    - Electric Outlet Strip
  - AzTech Associates
    - IHD
  - And More ...





Bill Summary Current Balance ACLARA Home Gas Water Electric system overv Monitor Set Alerts Monitor, Set, Alerts Monitor, Set, Alerts Total Amount Due \$71.00 Payment Due 05/12/2010 Welcome Make a Payment Your Current Usage Total Dollars Spent FEB Carrie 15 Rice 8.9 Therms \$19 **Bill Highlights** 123-XX-00712 \$5.25 Saved since last bill 3 kWh Less Used 5 Actions February 15, 2010 This Year ₽ F Profile Alerts 🐋 Budget Daily Cost: \$19 3.00 Daily Usage: 8.9 Therms Energy Use Thermostat Carbon Alerts Energy Forum Quick Links <> monthly gas budget Renewable Energy It is time to change your furnace d E Reduce Your Carbon Footprint 3 min ago

# Interoperability Through Standards

•WiFI Leader in IEEE 802.11 standards development Formed & Chair 802.11 sub 1 GHz study group

- Leader in the Wi-Fi Alliance (<u>www.wifi.org</u>) SGTG guided the Wi-Fi Alliance to liaison agreement with Zigbee Aliance SGTG Actively participating in SEP 2.0 messaging development
- Zigbee Active in IEEE 802.15.4 standards development —Lead development of 802.15.4g Class C Specifications
- •Member of the Zigbee Alliance (<u>www.zigbee.org</u>)

-Active participant in Zigbee Smart Energy Profile Messaging







#### Wi-Fi today - An unrivaled success

- 10% of the world's population uses Wi-Fi
- About two billion cumulative shipments
- Double-digit growth year over year ... strong momentum continues
- Wi-Fi is now ubiquitous in home, enterprise, industry, education and government environments
- Consumers love Wi-Fi\*

Wi-Fi Alliance Proprietary

- More than 6,600 product certifications completed since March 2000
- 1460+ certifications in 2009 a 42% increase over 2008
- Thirteen Wi-Fi Authorized Testing Laboratories worldwide
  - Most labs have been certifying Wi-Fi for > 5 years





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## ESCO / Aclara at a Glance

#### ESCO Technologies

A St Louis based company traded under ESE on the NYSE

#### • The Aclara Subsidiaries

- Have nearly 18 Million Electric / Gas / Water meters and DR Products deployed across the United States
- Has over 350 Utility Customers Globally
- Has 25 Customers in the State of Missouri with nearly 500,000 meters deployed

