



PA PUC meeting
9/13/2012

Landis
Gyr+
manage energy better

Landis+Gyr EMP PUC response

- + Essential product differentiators
- + Unique product testing
- + Field experience and lessons learned

Landis+Gyr: Expertise, technology and solutions to manage energy better



... a century of experience and expertise in metering

- with over 300 million installed meters the market leader in electricity metering
- more than 25 years experience in Smart Metering with over 100 AMI Solutions installed globally

... leading technology for changing needs

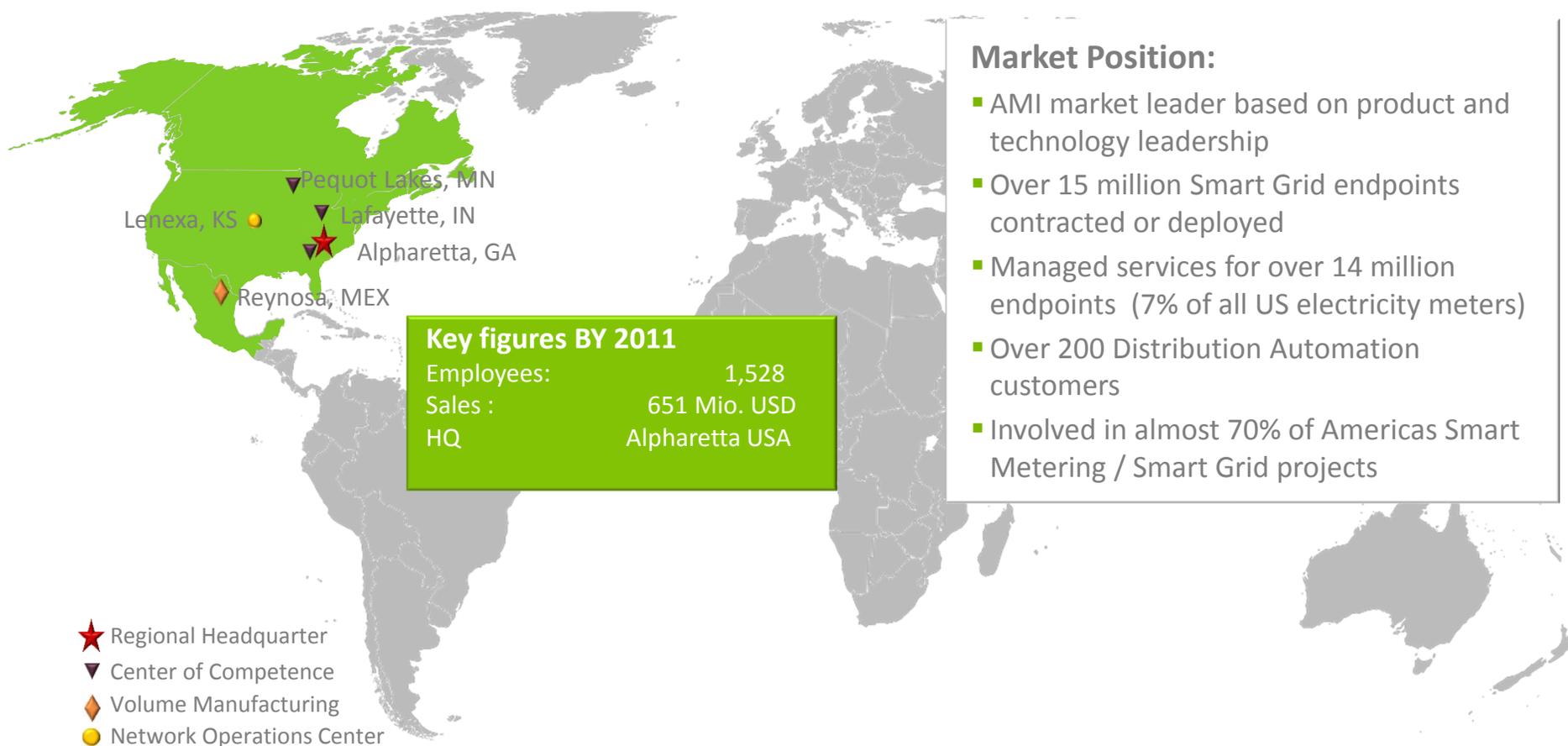
- involved in the most advanced Smart Metering projects in North America, South America, Europe and Australia
- helping utilities and their customers to exploit advantages of smart technology

... committed to contribute building the Smart Grid

- providing sustainable solutions to manage energy better

North America

AMI at it's best – full suite of metering, networking and application solutions and unique service offering



Landis+Gyr Focus Service Disconnect Deployments

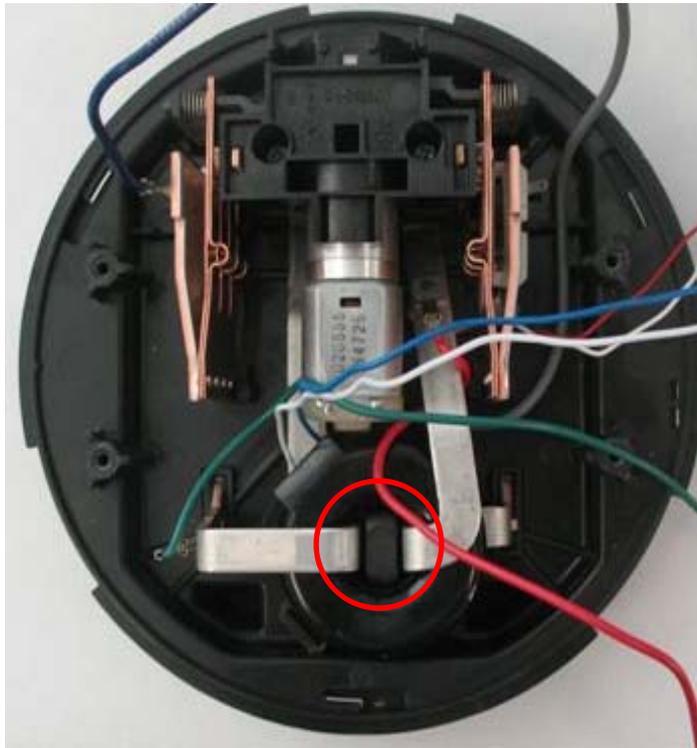
- + Oncor - 2,995,550
- + PG&E - 2,943,032
- + SMUD - 582,171
- + PHI - 480,628
- + CMP - 253,630
- + BGE - 177,212 – 40,000 installed
- + PECO – 148,000 – 46,000 installed
- + Other smaller customers – over 3 million
- + Total - **in excess of 10m meters**

Product Differentiators



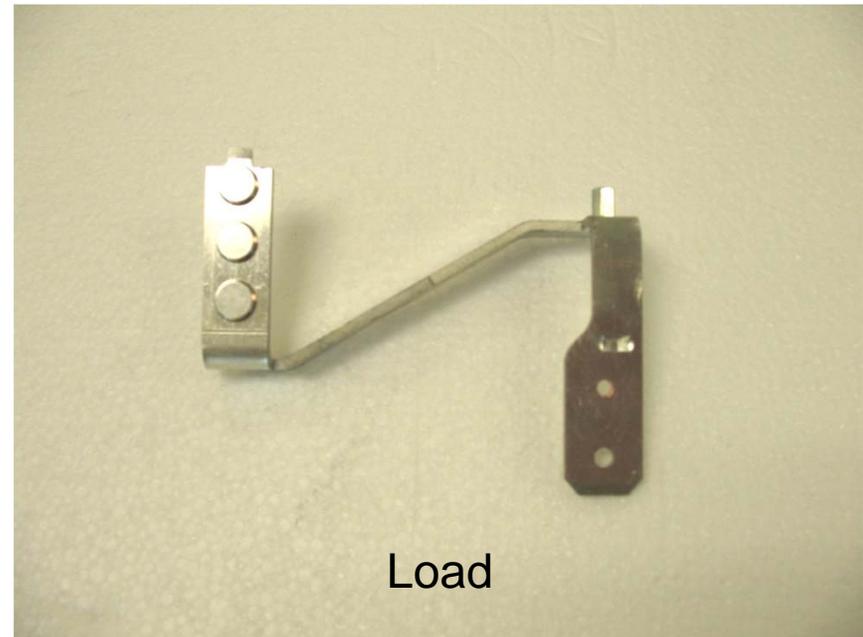
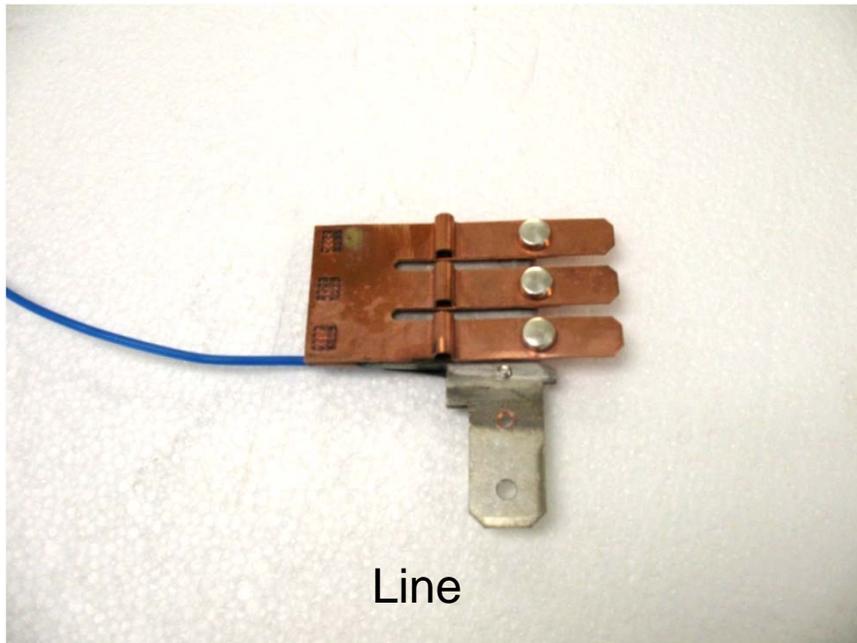
Focus SD Baseplate Assembly

- Current bus bars separated by high temp plastic - 960°C
- Current conductors and switch sealed in plastic
- Plastic meets UL94 flammability rating



Line/Load Blade Assemblies

- One-piece current coil construction – no welds
- Contacts are silver for low resistance
- Silver is used because when it corrodes, the silver oxide layer is conductive
- 3 contacts per line more effective than 1 large one



Testing



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Reliability and Safety Testing

+ Surge Current Rating

- ANSI C12.1 – 2001 Sec. 4.7.3.6. Effect of Temporary Overloads
 - 7,000 A test – Simulates a short that would trip a 15 to 50 A breaker
 - Meter passed and continued to function normally
 - 12,000 A test – Simulates a short that would trip a pole breaker – Meter is expected to fail in a safe manner
 - Meter passed and was no longer functional. All damage was contained inside the meter.

+ Life testing of the FOCUS AX-SD meter relay at 25,000 cycles at 200 amps

- Meters continued to operate normally with a minor increase in resistance across the switch contacts.

+ Accelerated Life Cycle Testing – Simulates 20 year meter life

Field Experience



Lessons learned

- + 3rd generation service disconnect
- + Motorized switch provides more stable and consistent operation
- + Because of the heat generated around the disconnect switch, it's important to use a strong temperature resistant baseplate material
- + Bringing back the temperature alarm can provide an early warning indicator of problem sockets.

Thank you

