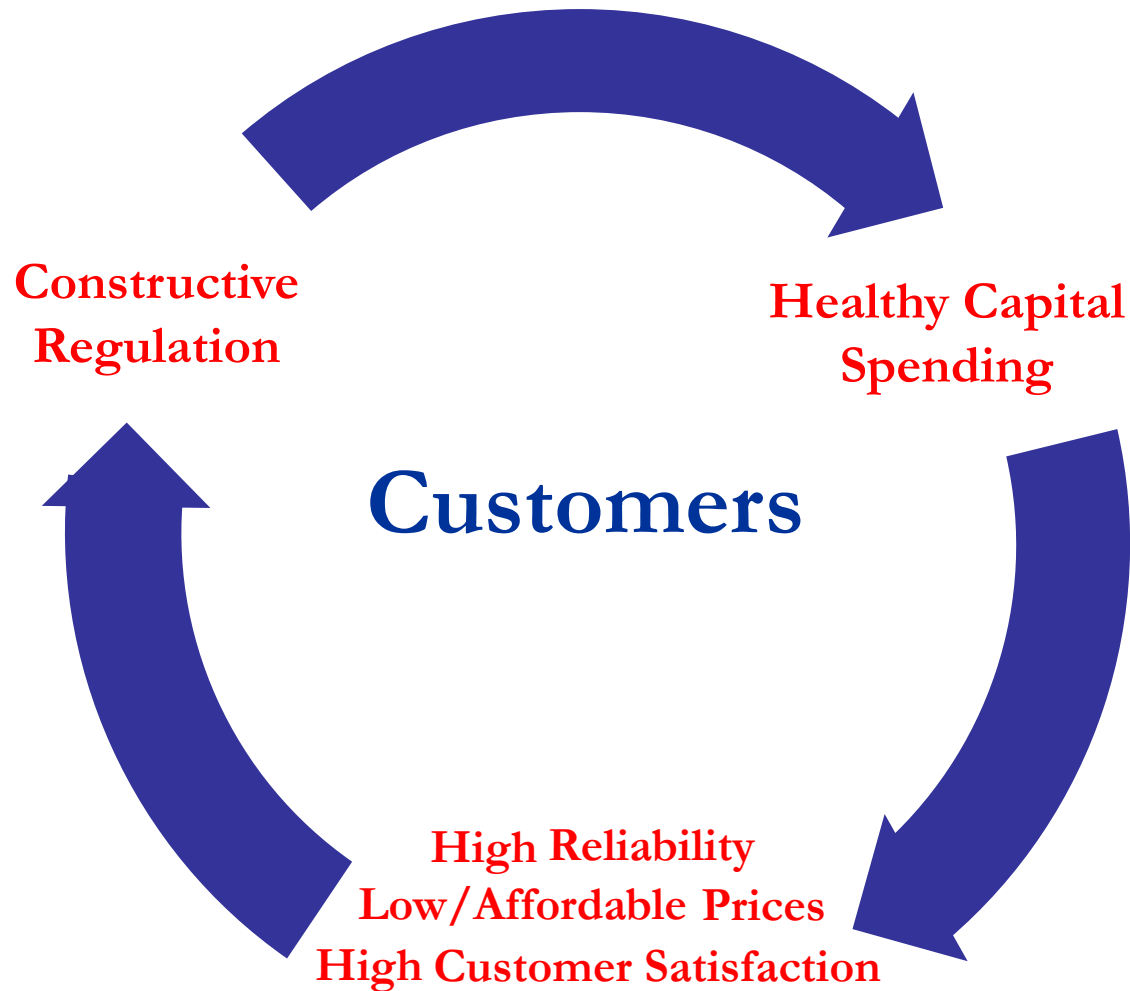


# SO Smart

Susan Story

# Our Business Model

## "Circle of Life"



# SO Smart

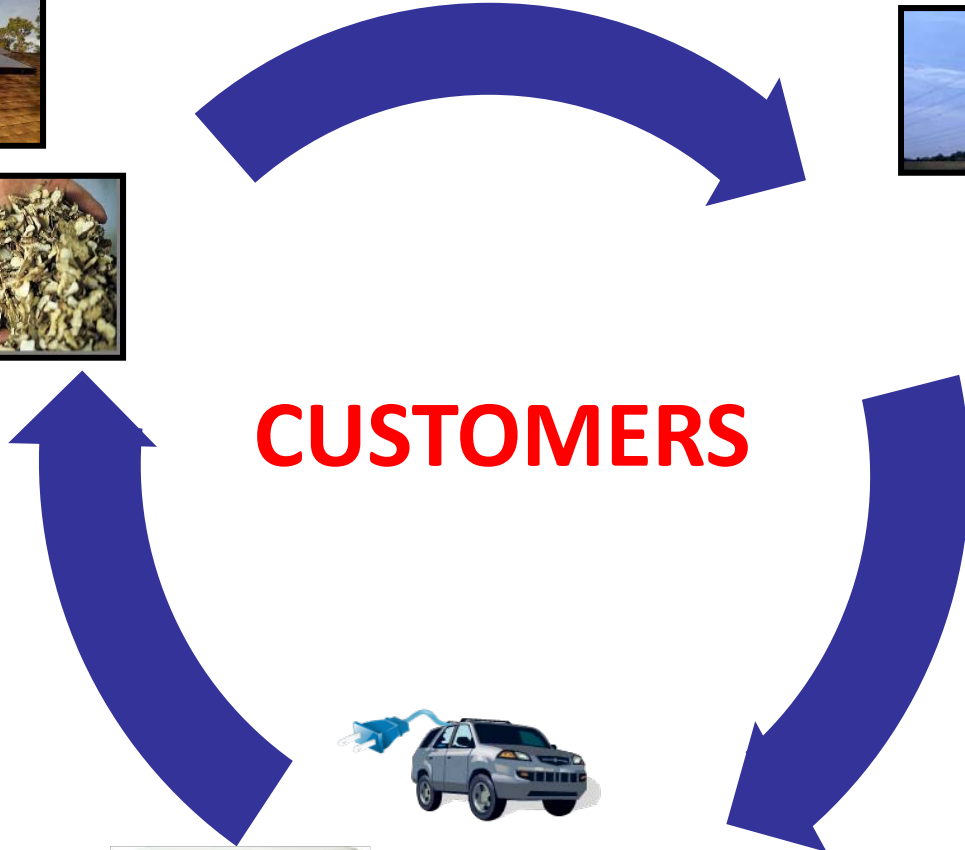
## SmartPower



## SmartGrid



**CUSTOMERS**



## SmartChoice

# Smart Power



## Generation/Resources

- Nuclear
- 21<sup>st</sup> century coal
- Gas
- Renewables
- Hydro/pump storage
- Energy efficiency



## Distributed Resources and Energy Efficiency

- Small scale renewable
- Storage technologies
- Electric transportation/Smart charging
- Off-peak loads and distributed generation
- Network EE improvements

# Smart Power

## Renewable Generation Southern Company Update



### Potential Biomass

Plant Mitchell – 96 MW  
Plant Scholz – 92 MW  
Plant Smith – 100 MW



### Landfill Gas

Perdido Landfill – 3.2 MW



### PV

Cimarron Project – 30 MW  
APC & GPC Corporate HQ  
Demonstration Projects



### Wind

Navarre Beach Met Tower  
SCS/Georgia Tech Offshore Wind  
APC Corporate HQ Small Turbine Study

# Smart

## Grid



## G&T (regional)

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- Wide-area reliability
- Inter-regional commerce (imports/exports/services)
- Renewable integration
- Ramping/regulating/reserves/voltage/off-peak services
- Delivery products (Tariff)

## T&D (local load service)

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Communication, Control, Data Management and Cyber Security

- Self-healing networks
- Intelligent electronic devices
- Dynamic line rating
- Remote equipment monitoring automation
- Quality Power: reliability, restoration, harmonics, voltage
- Asset management
- Cyber security



# Smart Grid

## Automated Metering Infrastructure (AMI)

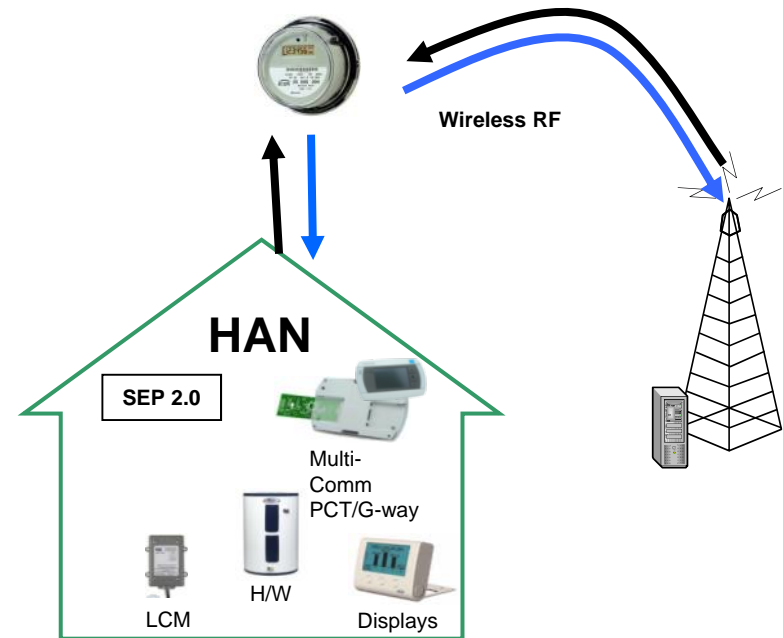
2,776,422 meters deployed through August  
with **4 million** in service by the end of 2012



- Remote meter reading
- Remote connects / disconnects
- Load profile information
- Load control / Smart Charging
- Customer Reliability Information

### Energy Efficiency Benefits

- Time-of-use pricing
- Critical peak pricing
- Real-time pricing
- Credits for peak load reduction agreements



# Smart Choices





# Smart Choices

## Electric Transportation



- For 20 years, Southern has been a leader in research and development of ET
- Multiple partnerships create opportunity for demonstration in real-world scenarios
- Projects include a broad range of categories
- Focused on both on-road and non-road technologies

# SO Smart

