

Orlando Airport Commission



April 29th, 2010



GE in Florida

GE Capital - Commercial Finance: Capital Solutions located in **Orlando**.

GE Capital - GE Money - Americas:

Longwood, Tampa – A leading provider of financial services to consumers and retailers in over 38 countries around the world. The **Tampa** site provides credit card customer service for JC Penney.

GE Energy - Energy Services:

GE's Energy segment is leading the field in the development, implementation and improvement of products and technologies that harness our resources such as wind, oil, gas and water. GE Transmission & Distribution, Energy Management Services Inc is located in **Melbourne**. Our product known as XA/21, is an Energy Management System designed to control and optimize utilities transmission and generation assets. We develop Software, System Integration, Factory Testing, 24x7 Maintenance and Support. GE Energy T&D (Transmission and Distribution) remanufactures large power transformers and manufactures some specialty power transformers in **Palmetto**. Also, we have recently started assembling electric meters for the FP&L contract in Palmetto as well. We also have GE Wind Turbines in **Pensacola**.

GE Technology Infrastructure - Aviation: **Clearwater** is the Headquarters and manufacturing centre of excellence for GE Aviation Systems Customer Services America, housing developmental labs, testing facilities, and FAA certified repair stations. **Jacksonville** – (GE Unison) sells and services turbine ignitions, wiring harnesses, alternators, piston ignitions and sensors and switches to the aerospace and power generation industries.

GE Technology Infrastructure - Enterprise Solutions:

Clearwater – Digital Energy manufactures and sells instrument transformers and related electrical equipment.

Bradenton – GE's security business is a wholly owned subsidiary of GE focused on communication and information technologies for security, safety and lifestyle enhancements. Headquartered in Bradenton it has operations in over 30 countries and is represented by some of the best-known brand names for intrusion and fire detection, access and building control, video surveillance, explosive and drug detection, key management and structured wiring.

Boca Raton – Security Solutions - development of electronic access control and integrated security management systems - software and hardware...card access for commercial and industrial.... We also have a call center for order entry/customer service and technical support.

GE Technology Infrastructure - Healthcare:

Jupiter, Tampa – Provides transformational medical technologies that are shaping a new age of patient care. GE Healthcare's expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, disease research, drug discovery and biopharmaceuticals is dedicated to detecting disease earlier and tailoring treatment for individual patients.

GE Technology Infrastructure - Transportation: Global Signaling - **Melbourne** Designs, integrates and markets advanced electronic systems that help automate and make railroads safer and more efficient, and is a growing provider of train control electronics and communication based technologies for the global rail industry.

GE Home & Business Solutions: Ft. Myers, Miami, Orlando, Tampa – Providing permanent and temporary building solutions for construction, healthcare, education and industrial applications for over 35 years. Modular Space's comprehensive offering includes GE PermaCon™ Component Construction, versatile modular complexes, mobile offices in a variety of configurations, and fiberglass equipment enclosures and turnkey project management services.

NBC Universal:

Orlando – Formed in May 2004 through the combining of NBC and Vivendi Universal Entertainment, NBC Universal is one of the world's leading media companies in development, production, and marketing of entertainment, news, and information to a global audience.



Employees:	5,900
Annual Payroll & Benefits:	\$668 million
Shareholders:	37,000
GE Volunteers:	1,450
Community & Educational Contributions:	\$2 million
OSHA VPP Safety Sites (3):	Clearwater, Miami, Jacksonville

Chrissy Borskey – Manager, GE Corporate Government Relations
 512-461-6932 / chrissy.borskey@ge.com



GE's Portfolio

- 5 businesses operating in more than 100 countries ... 125+ years
- Over 300,000 employees worldwide
- 2009 revenue \$157B

Energy Infrastructure



- Power & Water
- Energy Services
- Oil & Gas

Technology Infrastructure



- Aviation
- Enterprise Solutions
- Healthcare
- Transportation

GE Capital



- Aviation Financial Services
- Commercial Finance
- Energy Financial Services
- GE Money

NBC Universal



- Cable
- Film
- International
- Network
- Sports & Olympics

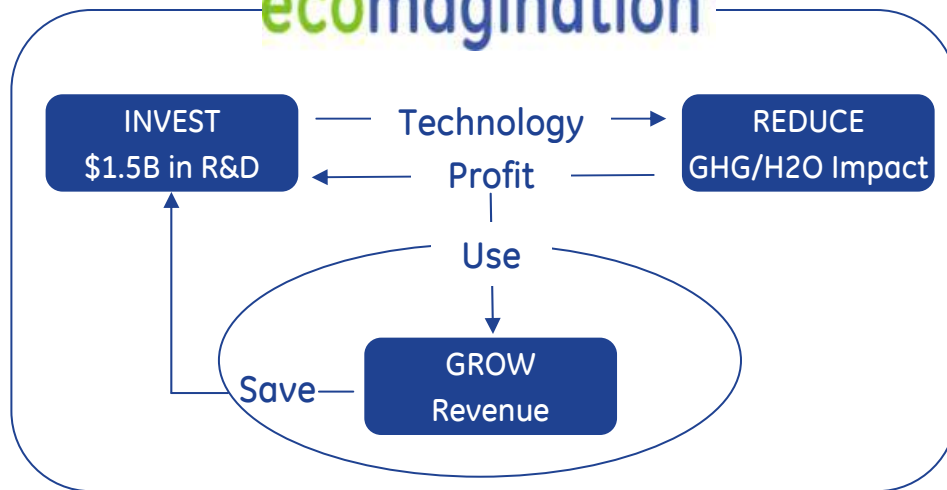
Consumer & Industrial



- Appliances
- Lighting
- Electrical Dist

GE's Impact

ecomaginationSM



#1 Most Sustainable Company
2009

Executive Order

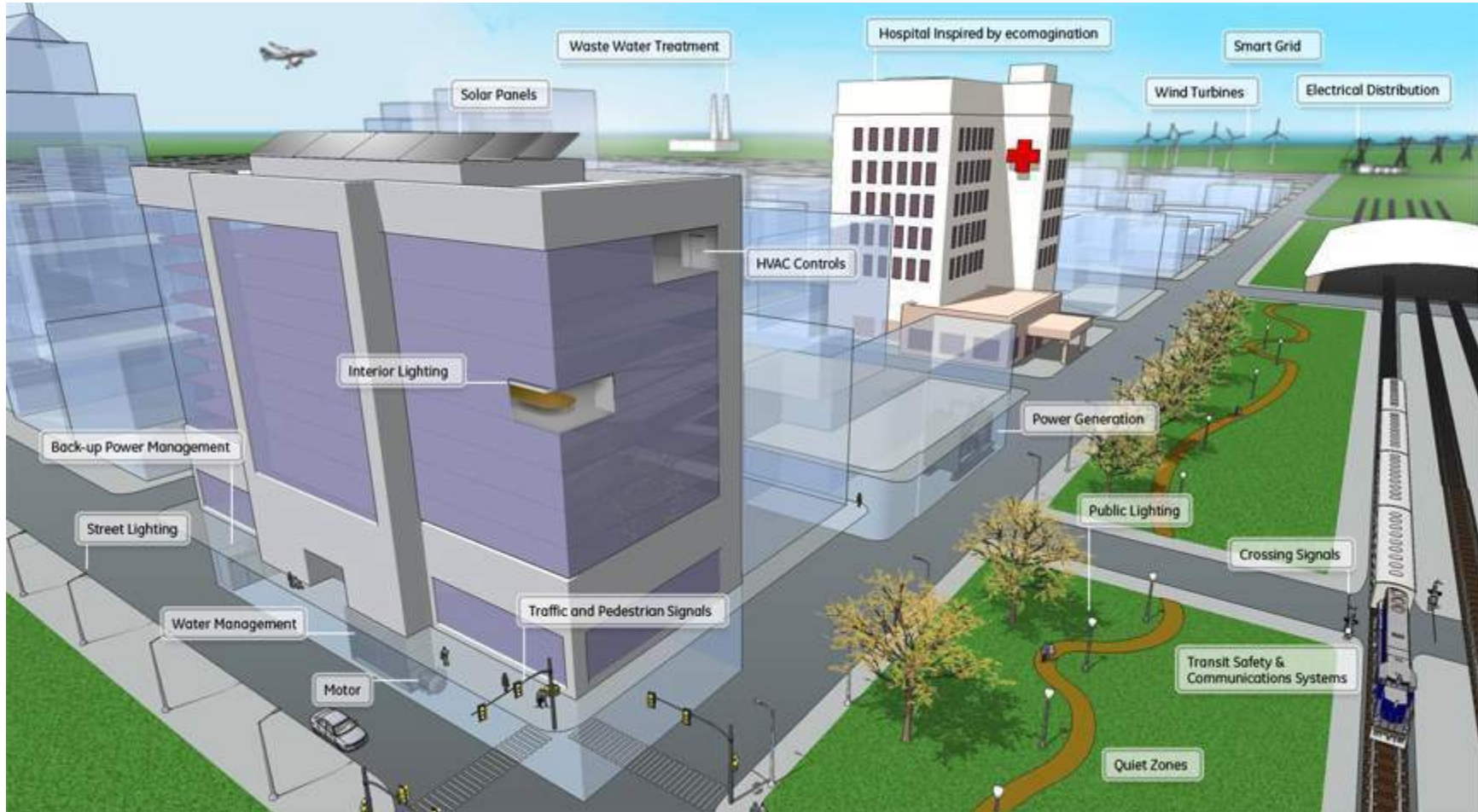


- Implementation of the 2030 net-zero-energy building requirement
- 26% improvement in water efficiency by 2020
- 30% reduction in vehicle fleet petroleum use by 2020

GE Internal Goals

- GHG ↓ 1% by '12 -13%
- GHG intensity ↓ 30% by '08 -41%
(tons / \$ revenue)
- Energy intensity usage ↓ 30% by '12 -37%
(btu's / \$ revenue)
- Reduce Water usage ↓ 20% by '12 -2%
(k gals)
- Reduce petroleum use

Sustainable community from GE



GE Green Building Solutions



Train the Trainer

Collaborative Audit

Technology










+

Behavior



Areas of Focus

	Electricity	lighting, motors, VFD, PF, generation, distribution, rate, load sharing
	Natural Gas	hedging, boilers, heating, test
	Water	treatment, processing, sewer
	Compressed Air	pressure, leaks, dryers, demand
	Steam	Condensate, leaks, traps, pre-heat, insulation, blowdown, chemistry
	Chilled Water	Generation, insulation, distribution, chemistry, towers, demand, set point
	Heat Recovery	Processes, testing



Treasure Hunts

- Structured workout w/ facility managers
- 3 day process (define, measure, analyze)



GE 2009 Results

- 300+ Global events
- 3,500 employees trained
- 650k MT CO2 ID'd....300k implemented
- \$150MM in energy savings

Building Lighting Efficiency

GE Partners with City of Sacramento to Light Historic Auditorium



- GE partnered with the City of Sacramento and design firms to light an historic auditorium
- Design featured energy efficient interior and exterior products, including street and walkway lighting
- Project received an Award for Excellence in Environmental Design and the GE Edison Award
- Achieved LEED Credit for lighting pollution reduction
- Design betters California Title 24 limits by 22%

Integrated lighting solutions in your public buildings ensure cost savings



imagination at work

Lighting

- Energy efficient
- Low Maintenance costs
- Extended life
- Low Environmental impact
- 57 million LED's sold



Building



Office



Outdoor



Controls

9 /
*Dallas Cowboys Stadium
5/3/2010

Electrical Efficiency



Motors



Logic Control



Low voltage Busway



Low Voltage Starters



Variable Frequency Drives



Switches & Operating Mechanisms



Circuit Breakers



Telecommunication Hardware



Capacitors

Motor Control Center



Uninterruptible Power Supply



Transformers



Switch Boards



Switchgears



Metering / Sub-metering

Electricity



Water



Gas



✓ Precision Measurement

✓ Alarm Reporting

✓ Advanced Communication

✓ Economics Reporting

✓ Automation capabilities

Security & Safety

Access Control

Security Solutions for Workplace
Safety and Productivity



Intrusion

Property Protection



Fire & Life Safety

Commercial Fire, Sound &
Command Life Safety Systems

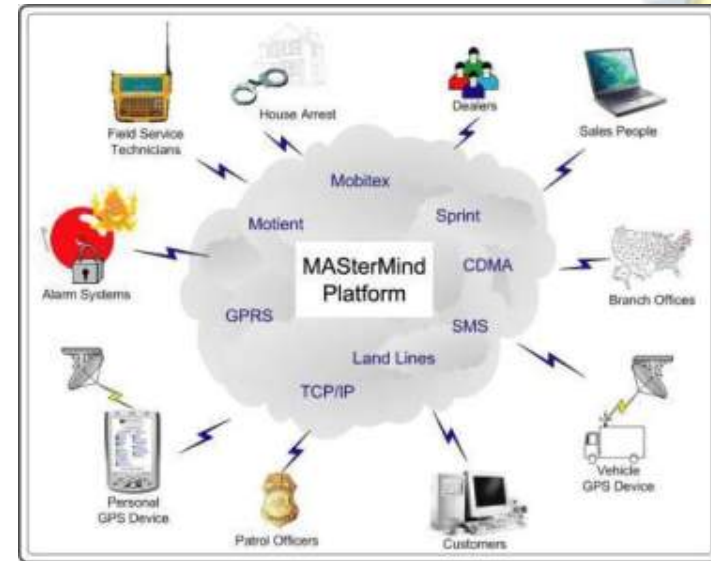
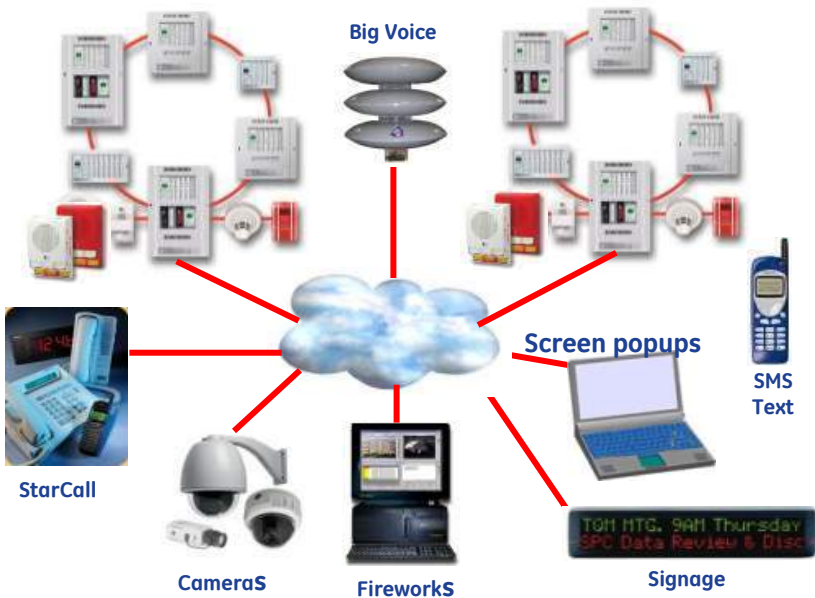


Video

Surveillance & Recording



GE Security: Mass Notification



- ✓ Fire voice **evacuation** systems
- ✓ Visible **signal** systems
- ✓ Video/graphic **signage** systems
- ✓ Wired **telephone** systems
- ✓ Wireless **cell phones & pagers**
- ✓ Two-way **radios** systems
- ✓ Computer **pop-up** messaging
- ✓ Text **messaging**
- ✓ Other **communication** methods
- ✓ Live **Video**

Customers

Government

- US Postal Inspection Service
- Boeing
- Northrop Grumman
- Lockheed Martin
- Pantex Nuclear Facility (DoE)
- US Army
- US Navy
- US Airforce
- US Marines

Financial

- JPMorgan Chase Bank
- National City Bank
- Wells Fargo Bank
- Fifth Third Bank
- Branch Banking and Trust
- M & T Bank
- Sun Trust Bank
- Chevy Chase Bank
- First Citizen's Bank

Air Quality & Comfort

Sensor devices & precision instruments to monitor CO2, humidity, temperature, differential pressure, airflow and flow.

Applications include:

- Roof Top Systems
- Air Quality and Room Monitoring
- Negative Pressure Control
- Boiler Control
- Filter Monitoring
- Duct Measurement
- Water Management
- Chiller Control
- Heat Transfer and Energy Usage



Case Study – Ventostat 8000



- Monitor CO2, temperature, humidity via one transmitter
- Reduce energy loss from over ventilation
- Savings up to 20% of ventilation costs

Water Recycle & Reuse

Filtration
Systems



Chemical
Treatment



Monitoring
& Control



GE Data Center Case Study

- Tech Refresh: 20+ Year Old Plant
- Installed a GE RO membrane system
- Switched to GE chemical treatment
- GE system monitoring & controls



20% Saving via RO (2-3MM gal/yr)

5X Average Tower Cycle increase

50% Treatment chemical reduction

\$6K Annual H2O savings

+ 10% Additional electricity savings

Renewable Energy

Solar

Thin Film



Silicon 6-8%
CdTe 9-11%

Solar Inverter



Wind



Utility
1.5 MW
2.5 MW
3.5 MW

Small Wind



0.4 - 3 kW

Wind Inverter



Biogas

Jenbacher



0.25MW - 4MW

CHP Case Study

City Landfill Gas

4 Jenbachers

\$840k savings/yr Nat Gas

\$1.7MM electricity/yr

High Power Generation

**330+
Million Hours**

CF6 Fleet



**LM2500 Fleet 50+
Million Hours**



LM2500+G4



LM2500+



LM2500

**Max Power (MW)
Efficiency (%)**

**Most Power
In Class!**

**34.0
41%**

**31.4
41%**

**23.8
38%**

Energy Management System

- ✓ Baseline Data
- ✓ Measurement & Verification



Lighting Systems



Electrical Efficiency



Metering & Sub-metering



Security & Safety



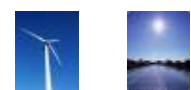
Environmental, Air Quality, & Comfort



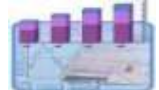
Water Recycle & Reuse



Renewable Energy



Monitoring



Power Quality



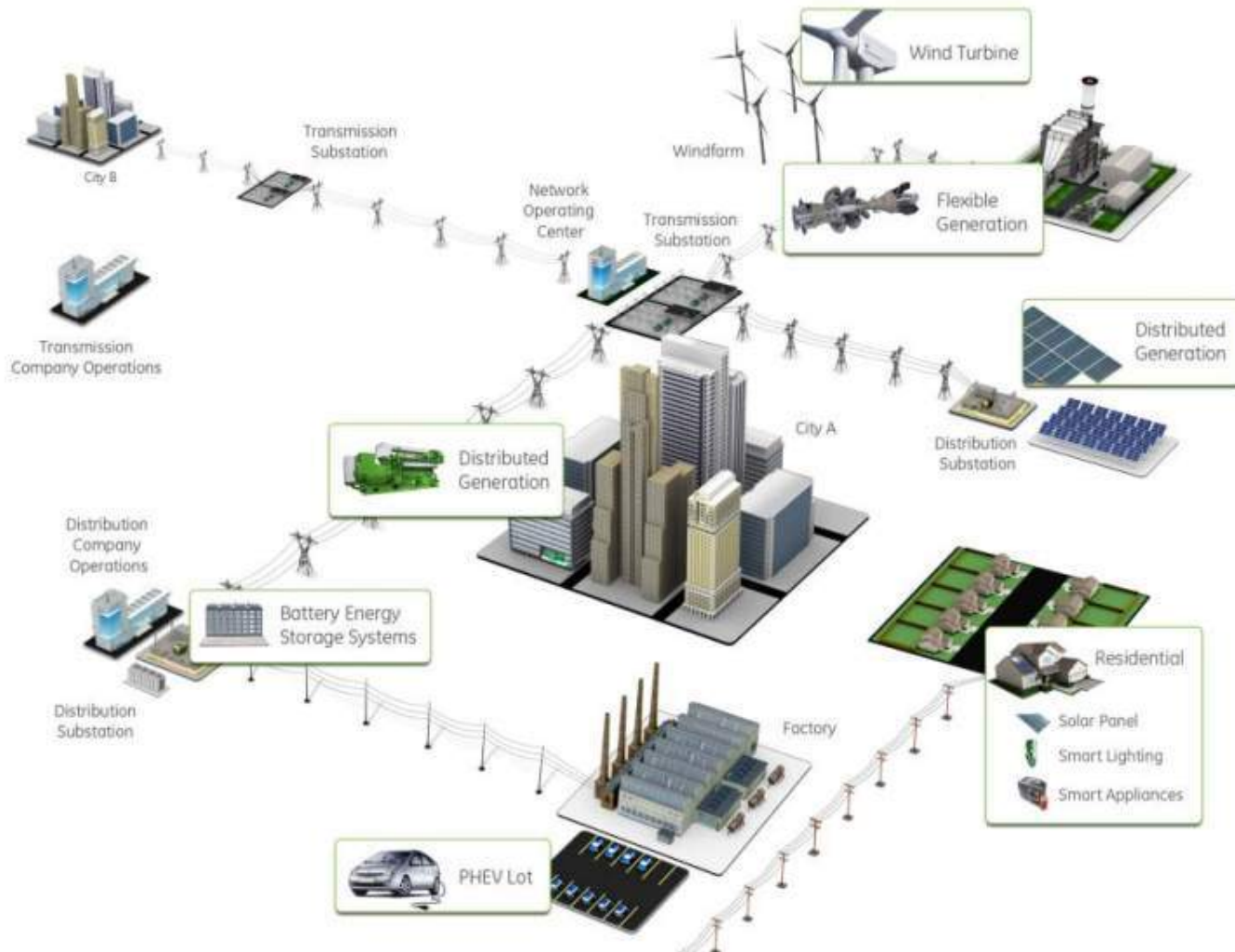
Cost Allocation



Control & Automation



SmartGrid Integration



Demand Response

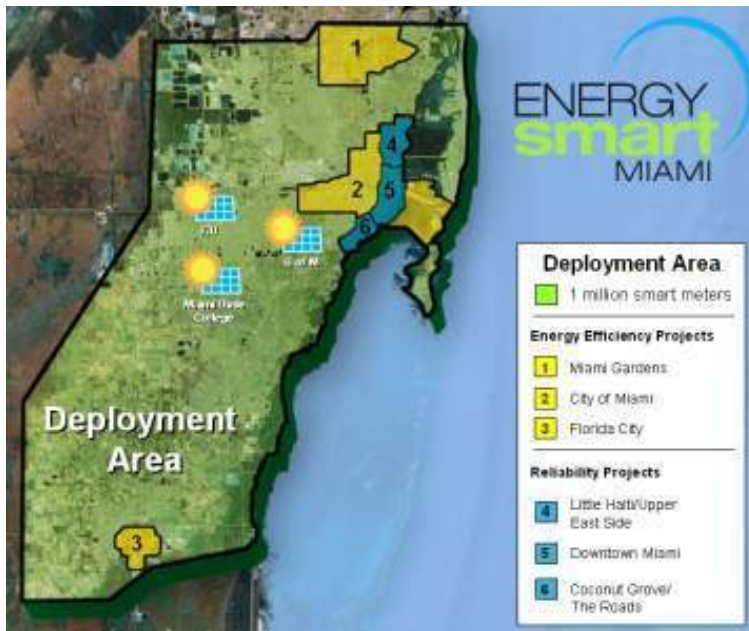
Renewables Utilization

Energy Storage

Mitigate losses

Smart Grid

GE Partners with Miami on a cutting-edge smart grid initiative



- \$200M smart grid initiative in Miami-Dade Co.
- Public/private alliance:
GE, City of Miami, FPL, Cisco, Silver Spring Networks



- Proposes to use ARRA funds
- Creation of 800-1,000 "Green collar" jobs
- Integration of renewable energy
- Reaches ~1M customers (Smart Meters, Demand Management, Distribution Automation, Substation Intelligence)

"It's time for action. With projects like Energy Smart Miami, we can stimulate the economy today and build a brighter, cleaner tomorrow. It's truly a win-win for Miami and America."

Carol Browner, Assistant to the President for Energy and Climate Change

GE Energy Financial Services

- Help customers & GE grow with new investments & partnerships
- Equity investments in 23 GW worth of power projects
- Debt portfolio spanning multiple power technologies

Products:

- Facility & equipment leases
- Structured & common equity
- Leverage leases
- Senior secured debt
- Asset-backed revolvers

Investments in:

- Electric power generation
- Power transmission
- Power distribution
- Oilfield services
- Wastewater treatment

Solutions:

- Project finance
- Equipment finance
- Energy technology & services
- Monetizations
- Renewable energy

Case Study

Project

- 144 MW wind project in British Columbia
- \$225MM estimated construction cost

EFS Role

- Partnership between GE and Plutonic Power Corp.
- Project co-owned and operated






imagination at work






Case Studies

GROWTH

Building Solutions Case Studies

Project	Scope	Operating Impact	Environmental Impact	Comments	Payback Years
1 Miami Place 	1,000 Lighting Fixtures	<ul style="list-style-type: none"> \$59,600 / yr savings 470 fewer lamps / yr 	<ul style="list-style-type: none"> 333k CO2 emissions / year Equals 29 cars or 51 acres of trees 	Replaced 150W incandescent with 42W GE Energy Smart	0.4
Mcallen Condos 	Energy efficient lighting for each condo	<ul style="list-style-type: none"> \$907 per building / yr savings 44 less bulb changes / yr 	<ul style="list-style-type: none"> 17.52k CO2 1 car or 7.9 acres of trees 	Greenest building in Boston, LEED Gold Certified	New Building
Home Depot 	ecoelectrical solution in Sarasota, FL store	<ul style="list-style-type: none"> \$9,870 energy savings / yr Increased equipment reliability 	<ul style="list-style-type: none"> 31k CO2 3 cars or 18 acres 	Electrical load control using remote access panels, ED, lighting panels	1.6

Building Solutions Case Studies

Project	Scope	Operating Impact	Environmental Impact	Comments	Payback Years
303 W. Colfax 	EE Motors in water pumps, boiler feeds, and HVAC	<ul style="list-style-type: none"> • \$19,900 energy savings / yr • Equipment Reliability 	<ul style="list-style-type: none"> • 169k CO2 • 15 cars or 77 acres 	Motor retrofit in Denver, CO building	2.9
Pelican Reserve 	Energy efficient transformers and ED products	<ul style="list-style-type: none"> • \$9,848 energy savings / yr 	<ul style="list-style-type: none"> • 67k CO2 • 4.9 cars or 18 acres 	30% energy savings, 30% lighter, 40% smaller	1.8
Panorama 	Submetering Integrated Panel	<ul style="list-style-type: none"> • \$384,000 space save (\$254 / ft²) • \$17,293 energy savings/ yr 	<ul style="list-style-type: none"> • Cut energy: reliable billing and data access • 1600 ft² material savings 	Saved key ground floor real estate in Las Vegas	0.4



imagination at work