GE Lighting JP Morgan LED Conference

Jaime Irick GM, Lighting North America Professional Solutions August 30, 2012

Caution Concerning Forward-Looking Statements:

This document contains "forward-looking statements" – that is, statements related to future, not past, events. In this context, forward-looking statements often address our expected future business and financial performance and financial condition, and often contain words such as "expect," "anticipate," "intend," "plan," "believe," "seek," "see," or "will." Forward-looking statements by their nature address matters that are, to different degrees, uncertain. For us, particular uncertainties that could cause our actual results to be materially different than those expressed in our forward-looking statements include: current economic and financial conditions, including volatility in interest and exchange rates, commodity and equity prices and the value of financial assets; potential market disruptions or other impacts arising in the United States or Europe from developments in the European sovereign debt situation; the impact of conditions in the financial and credit markets on the availability and cost of General Electric Capital Corporation's (GECC) funding and on our ability to reduce GECC's asset levels as planned; the impact of conditions in the housing market and unemployment rates on the level of commercial and consumer credit defaults; changes in Japanese consumer behavior that may affect our estimates of liability for excess interest refund claims (Grey Zone); our ability to maintain our current credit rating and the impact on our funding costs and competitive position if we do not do so; the adequacy of our cash flow and earnings and other conditions which may affect our ability to pay our quarterly dividend at the planned level; our plan to resume GECC dividends, which is subject to Federal Reserve review; our ability to convert customer wins (which represent pre-order commitments) into orders; the level of demand and financial performance of the major industries we serve, including, without limitation, air and rail transportation, energy generation, real estate and healthcare; the impact of regulation

"This document may also contain non-GAAP financial information. Management uses this information in its internal analysis of results and believes that this information may be informative to investors in gauging the quality of our financial performance, identifying trends in our results and providing meaningful period-to-period comparisons. For a reconciliation of non-GAAP measures presented in this document, see the accompanying supplemental information posted to the investor relations section of our website at www.ge.com."

"In this document, "GE" refers to the Industrial businesses of the Company including GECC on an equity basis. "GE (ex. GECC)" and/or "Industrial" refer to GE excluding Financial Services."



Agenda

- Industry / environment
- GE Lighting business overview
- What matters in LED





Industry / Environment



Global technology shift

Incandescent



- Filament based
- Inefficient 65 watts
- Two-year life
- Cost/yr = \$7.60
- Thomas Edison → 1879

LED

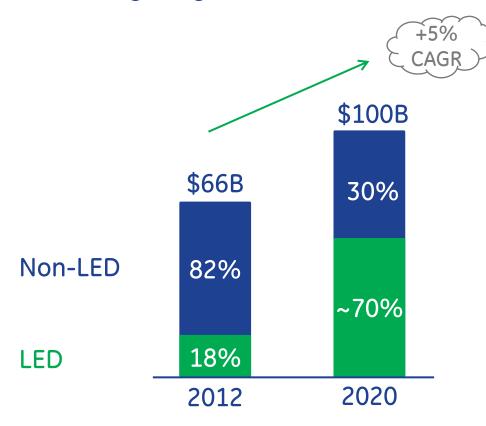


- LED based
- Very efficient 12watts
- >20 years
- Cost/yr = \$1.40
- GRC → 1962



Lighting industry & LED growth

Lighting Market Growth



Sources: GE Forecasts, Strategies Unlimited, NEMA, Datapoint Research, Internet Research

Drivers

- ✓ New technologies ... higher acquisition costs but lower life cycle costs
- Energy regulation
- ✓ Strong emerging market growth
- ✓ New construction restarts



Attractive industry

GE Lighting Overview



GE Lighting revenue profile

(\$ in billions)

Regions





North America ~60% Latin America ~10%







Asia ~10%

Channels



Professional ~70%



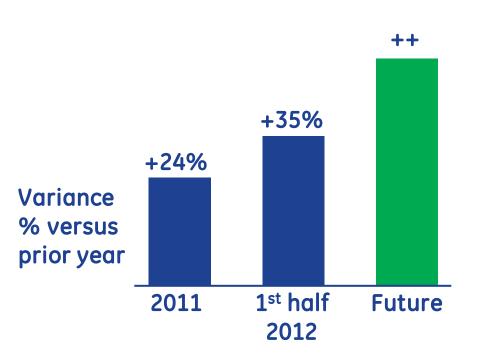
Consumer ~30%

Diverse Lighting portfolio



GE Lighting LED growth

GE LED growth



Growth Accelerating

Segment activation

- Early activation in specialty systems
- Replacement lamps activating now
- Outdoor accelerating and going "Smart"
- GE indoor portfolio expanding and accelerating
- Consumer longer term



Technology capability

<u>Global technology footprint</u> ...



Cleveland, OH



Budapest, Hungary



Shanghai, China



Tel Aviv, Israel



Hendersonville, NC



Xi'an, China

GE Major milestones...

1879 – $\mathbf{1}^{\text{st}}$ Incandescent Lamp by Edison

1938 - 1st Fluorescent Lamp

1962- 1st Visible LED Light

1st Metal Halide Multi-Vapor® Lamp

1974 - 1st Energy-Saving Fluorescent

1990 - 1st Halogen HIR™ PAR Lamp

2004 - **1**st Ceramic Metal Halide PAR20 and PAR 30 Lamps

2008 - 2012

- Expansion of energy saving, long life solutions with LEDs, Linear Fluorescent and CMH® products









GE Lighting & ecomagination

ecomagination







• Inspire of the public of the

When we started...

- It costs too much
- It's about green
- Customers will hate this
- Action by the elite
- Go it alone

Goals for 2015

- Double R&D to \$10B from 2010-2015
- Expand our focus beyond clean energy
- Grow 2x GE's growth
- Reduce GE's energy intensity by 50%
- Reduce water consumption by 25%
- Inspire a competitive energy future

We discovered...

- It saves money
- It's about "industrialization"
- Customers save money and optimize resources
- About scale... create jobs
- A "system" is required

... in sync with Lighting

Lighting Actions

- Largest offering of environmental products within the GE portfolio
- 700+ ecomaginationsM products
- Third-party product certification (ENERGY STAR® and RoHS)





LED: what matters



What matters in LED

Customer Intimacy & Channel

Smart & Configurable Systems

Value Added Services Operational Excellence









Evolve™ + Controller





Infusion Systems







- Provide solutions vs product
- Deep understanding of customer economics
- Trusted Advisor

- Configurable systems
- Critical platform expertise - thermals, optics, electronics
- Lighting Design
- Specification Sales
- Application Engineering
- Project Management
- Energy Audit Services

- Product quality & reliability
- Best in class fulfillment time
- New product introduction time

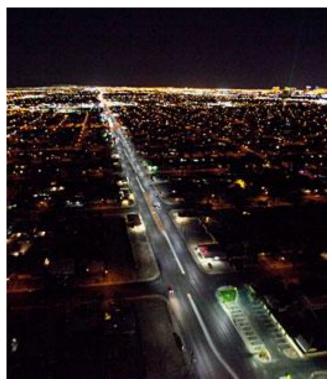


Customer Intimacy & Channel



Las Vegas story









Operating Impact

- ~Energy savings of up \$1.7 million annually
- ~Reduction of 20 million kWh per year
- ~Maintenance savings of \$1 million annually

Environmental Impact

KhW reduction means 12,000 metric tons CO₂ emissions eliminated per year

= >2,300 cars off the road



Tower Bridge story









Operating Impact

The combination of architectural and floodlight LEDs were specified to help reduce the energy used to light the bridge by up to 40 % compared with the previous system

Environmental Impact

As a London 2012 Sustainability Partner, a key objective of the new lighting scheme was to help improve energy efficiency.



Marriott story











GE Lighting solution

- Illuminated 2MM sq. feet of garages and parking lots
- Integrated LED systems & GEL controls with security cameras
- Advanced 3D photometric renderings to Marriott engineers

Customer value

- 70% energy savings
- 2-year payback on investment
- Enhanced safety and security

Smart & Configurable Systems



LED Systems: capturing more value



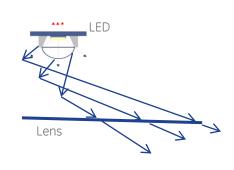
- LED chips & packages are only part of the equation
- What sets an LED system apart is thermals, optics, intelligent devices (drivers + controls)



GE's Differentiated Value Prop – Optics

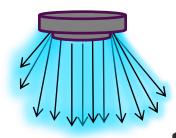
Reflective optic system





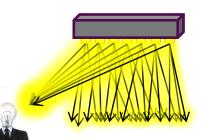
GE: Reflective











Glare from all LED'S

Advantage of reflective system

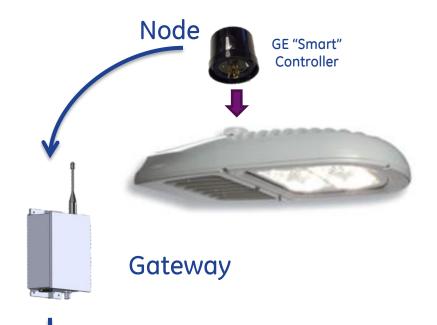
✓ Highly controlled distribution

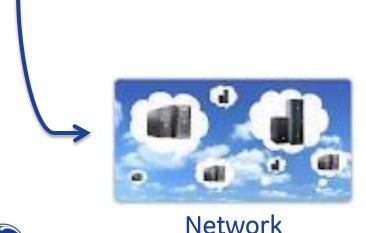
√ Minimize glare

✓ Easier to clean, lower maintenance

√ Improved reliability

Next Generation - Controls





Advantages of controls

✓ Utility grade metering

✓ GPS embedded chip

✓ End of Life indicator

√ Fault logging

Optics & Controls come together:

GE LUMINATIONTM

Suspended Luminaires

Innovative Architectural Ceilings of the Future
Combination of high design and unique features of transparency, all without sacrificing the benefits of increased efficiency and lighting performance.



Recessed Luminaires

Cleaner, Brighter, More Modern Ceilings
Long Life, efficient solutions with ultra-thin form factors, unique light distributions





Value Added Services



Value added services

Application center of excellence

Lighting Design

- Optimize lighting performance and energy savings

Specification Sales

- Bringing GE solutions to architects and end-users

Application Engineering

- Deep product expertise

Project Management

- Implementing sophisticated solutions

Energy Audit Services

- Expertise in efficient alternatives





Quality & Operational Excellence



Serious About Quality & Reliability

Multi-million dollar reliability lab

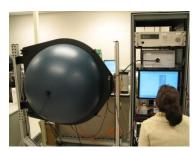
- Environmental testing at extreme temps and cycles
- Six Sigma design links systems integration expertise to applications
- Testing of LED chips, components, and systems



9 Large Enviro/Chambers



10 Small Enviro/Chambers



2 NVLAP Certified Measurement Spheres



10 Year History of Field Results With Systems Integration



Cycling Test



Customer Centric Business Transformation GE Fixture Products

Before transformation

After transformation

View of shop floor: Hendersonville, NC assembly plant





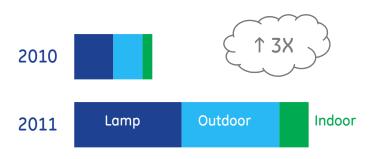
Order Lead Time
Fulfillment Rate

35 Days 60% 6 Days 98%



New Product development cycle time

Expanded product portfolio



Reduced new product cycle time



Lamps



Outdoor



Indoor





Wrap Up

- Industry evolving ... GE opportunity
- GE's a global leader
- Clear strategy ... investing for the future



