# **GE Lighting**

## Long View Power Demand, Energy Efficiency Conference

### Jaime Irick GM, Lighting North America Professional Solutions March 21<sup>st</sup>, 2013

### 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 a

"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 <u>www.ge.com</u>."

"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."



**GE LED Blade** 

## Agenda

- Lighting Environment
- GE Lighting
- LED: What Matters?
- Q&A





GE Blade- Sainsbury UK



# Lighting Environment



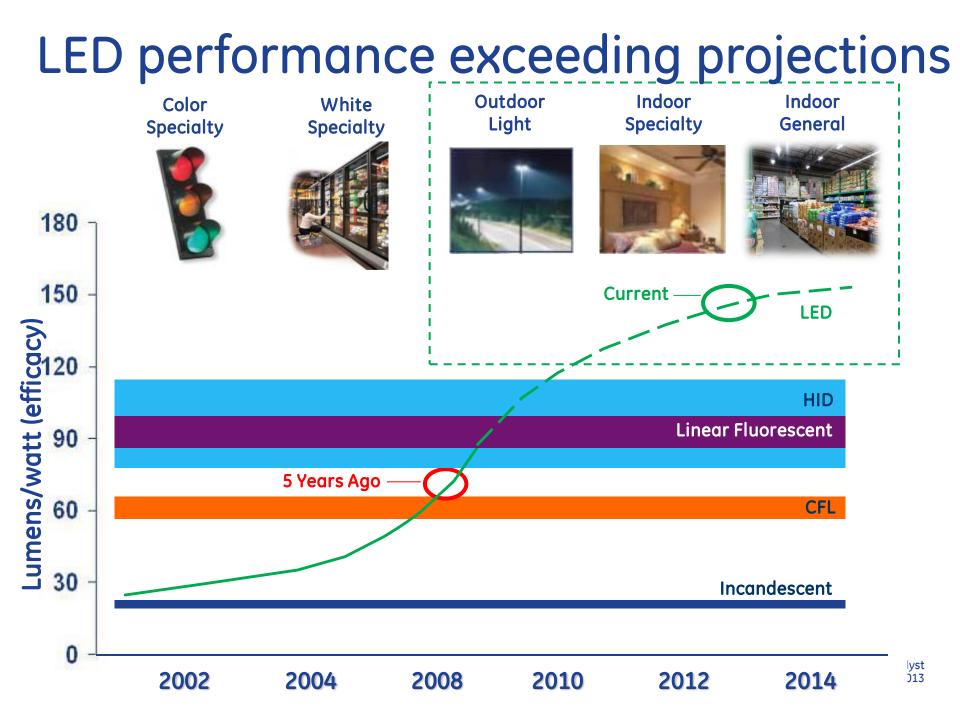
## Now: global technology shift



- Cost/yr = \$7.60
- Thomas Edison 🔿 1879







## Lighting industry & LED growth



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



Attractive industry

✓ Haitz's Law

**Drivers** 

- ✓ Energy regulation
- ✓ Hyper Competition

## **LED buying factors**

## **Return** on investment

### Generates a return

- Energy, maintenance replacement bulbs
- ✓ Rebates & tax credits



Save more than you pay. Let us show you how.



Quality of Light

### Color, quantity & quality ✓ Improves safety ✓ Increases revenue





## Environment

↓ Greenhouse emissions ✓ Reduces energy used  $\checkmark$  Green certification





# GE Lighting



## **GE Lighting revenue profile**

### **Regions**





North America ~60% Latin America ~8%

## **Channels**





**EMEA ~24%** 



Professional ~70%

**Diverse Lighting portfolio** 

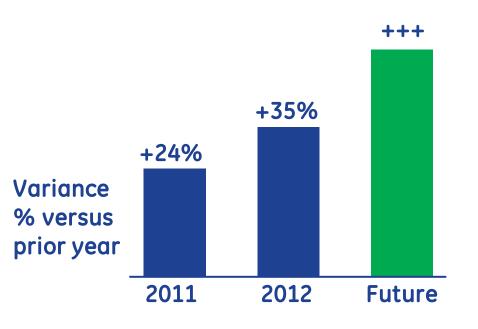
Consumer ~30%



## **GE Lighting LED growth**

### **GE LED growth**





- Early activation in specialty segments
- General lighting activating now
- Segmentation critical ... light is ubiquitous, LED companies are not
- Winning LED companies will excel at demand creation

**Growth Accelerating** 



## **Technology capability**

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



Cleveland, OH



Budapest, Hungary



Shanghai, China

magination at work



Hendersonville, NC



### GE Major milestones...

- 1879 1<sup>st</sup> Incandescent Lamp by Edison
- 1938 1<sup>st</sup> Fluorescent Lamp
- 1962- 1<sup>st</sup> Visible LED Light 1<sup>st</sup> Metal Halide Multi-Vapor® Lamp
- 1974 1<sup>st</sup> Energy-Saving Fluorescent
- 1990 **1**<sup>st</sup> Halogen HIR™ PAR Lamp
- 2004 1<sup>st</sup> Ceramic Metal Halide PAR20 and PAR 30 Lamps
- 2008 2012 - Expansion of energy saving, long life solutions with LEDs, Linear Fluorescent and CMH® products

We never stop re-inventing Lighting







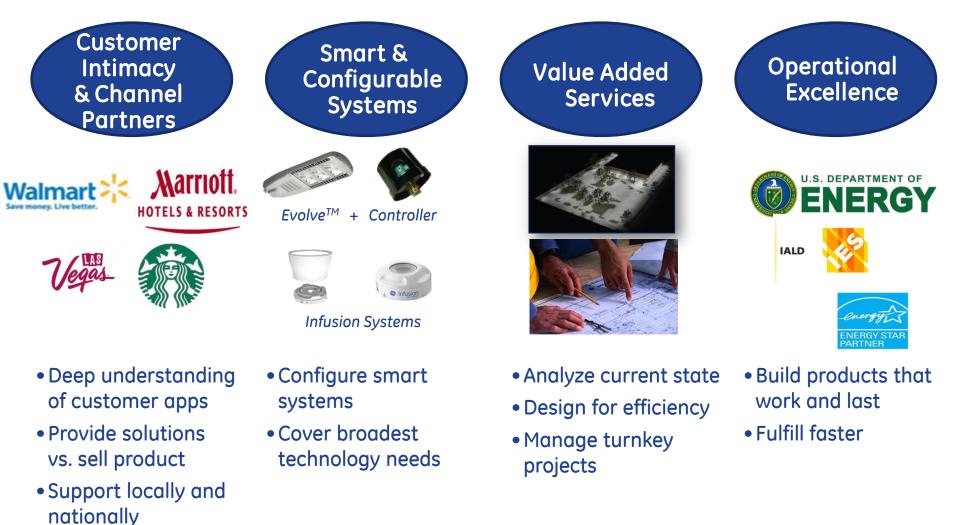




# LED: what matters



## What matters in LED





## **Marriott and GE Lighting**











### **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

## Las Vegas and GE Lighting









### **Operating Impact**

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

### **Environmental Impact**

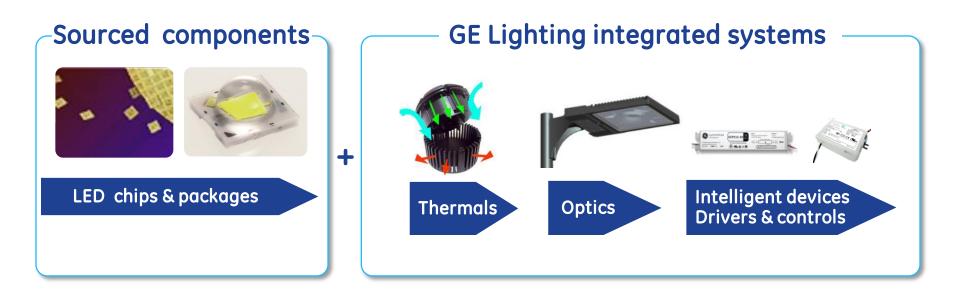
KhW reduction means 12,000 metric tons CO<sub>2</sub> emissions eliminated per year

= >2,300 cars off the road



imagination at work

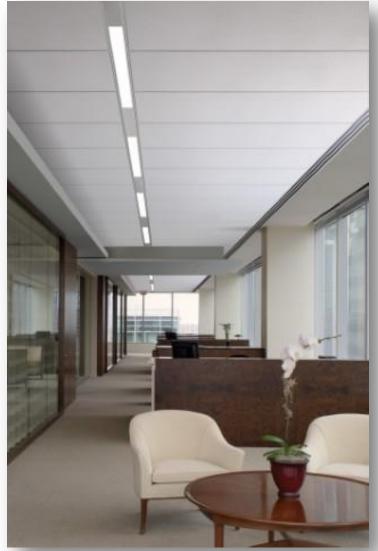
## LED Systems: capturing more value



- LED chips & packages are only part of the equation
- System design and efficiency is the differentiator thermals + optics + intelligent devices (drivers + controls)



## GE & USG: redefining the ceiling



### **Collaborative Solution**

- Integrated Ceilings Lighting/Acoustics/HVAC
- Clean modern aesthetic. Monolithic appearance.
- Ideal Fit, form & function
- Tested together as a system
- Environmental benefits
  - Energy efficient lighting system (75-87 LPW)
  - Long Life; Low maintenance
  - No lead, glass or mercury; RoHS compliant
- High recyclable content
  - Aluminum Frame 100% Recyclable
  - USG Tile & Grid (80%)
- USG highly reflective tiles maximize lighting performance
- Technical expertise; trusted advisors



## Value added services

**Delivering value BEYOND just products** 

## Application center of excellence

**Up front Consultation** 

- Industry leading analytics tailored to customer applications

**Energy Audit Services & Application Engineering** 

- Expertise in efficient alternatives

**Lighting Design** 

- Optimize lighting performance and energy saving

### **Project Management**

- Implementing sophisticated solutions





work Integrate application-based solutions

18 ppenheimer Analyst 3/18/2013



Lighting industry 70% LED by 2020

Winning companies will serve as trusted advisors to customers as they transition to LED

GE is leading the lighting revolution





