

Technology and innovation at GE

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June 14, 2011

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; 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); potential financial implications from the Japanese natural disaster; 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; 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 and regulatory, investigative and legal proceedings and legal compliance risks, including the impact of financial services regulation; strategic actions, including acquisitions, joint ventures and dispositions and our success in completing announced transactions and integrating acquired businesses; and numerous other matters of national, regional and global scale, including those of a political, economic, business and competitive nature. These uncertainties may cause our actual future results to be materially different than those expressed in our forward-looking statements. We do not undertake to update our forward-looking statements. "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."

"Effective January 1, 2011, we reorganized our segments. We have reclassified prior-period amounts to conform to the current-period's presentation."

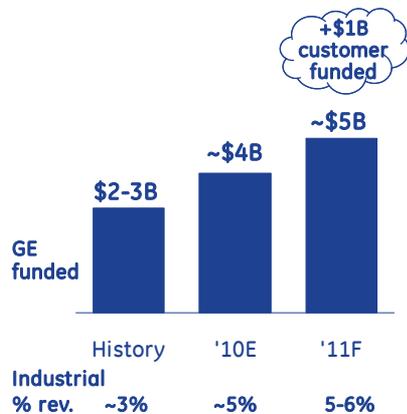
"In this document, "GE" refers to the Industrial businesses of the Company including GECS on an equity basis. "GE (ex. GECS)" and/or "Industrial" refer to GE excluding Financial Services."



imagination at work

Launch great new products

2X R&D investment



Technology creates long-term value leadership

Technical foundation for growth

- + Gain profitable share through execution, innovation & more NPI
- + Execute difficult technologies better than competition
- + Reverse innovation ... new products at more price points with higher margins
- + Lower cost & higher margins

Enterprise value: scale

- ✓ Global research framework
- ✓ Lead in core technologies
- ✓ Partner of choice



imagination at work

Market-focused R&D

- First U.S. industrial lab
- Began 1900 in Schenectady, NY
- Founding principle ... improve businesses through technology
- One of the world's most diverse industrial labs



Cornerstone of GE's commitment to technology

Expanding our global presence



Our Mission



Delivering core technology for NPI

GEnx

Improved fuel efficiency and reduced emissions

Carbon fiber composites, lightweight metal alloys and low NOx combustor

Fastest selling large jet engine in GE's history



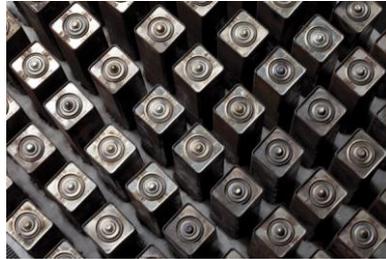
Inventing new technology

Advanced Batteries

Disruptive technology for
Transportation ... rail, marine,
road, mining

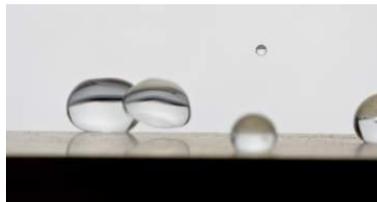
Growth opportunity for
telecommunications,
uninterruptible power supplies,
smart grid

Novel chemistry and materials
creating a \$1B business



Harnessing advanced technologies

- Molecular Imaging & Diagnostics
- Electronic Materials Systems
- Sustainable Energy
- Nanotechnology
- Advanced Propulsion
- Energy Conversion



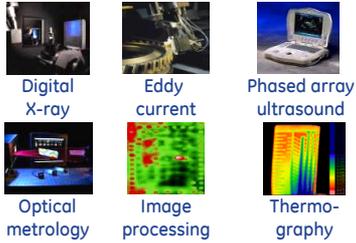
Spreading technology across GE

Materials & modeling



Composites Coatings Metal alloys Computational fluid dynamics

Imaging & analysis



Digital X-ray Eddy current Phased array ultrasound
Optical metrology Image processing Thermography



Aviation



Healthcare



Energy



Oil & Gas



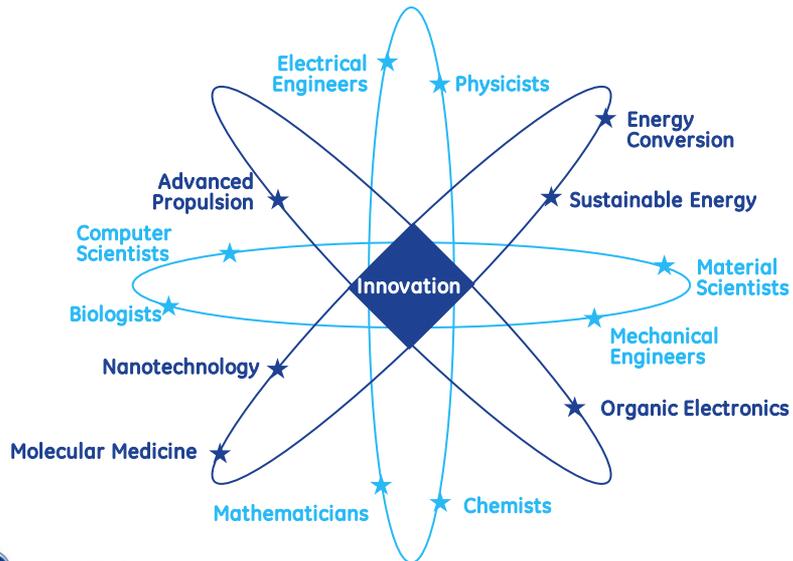
Water



Wind



Developing world-class talent



Forming partnerships

GE Global Research

Governments



Universities (300+)



Companies



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Energy Solutions



Macro trends



Electricity demand ... 2X by 2030



Population ... 8 billion by 2030



Environment ... 40 more countries enact renewable energy standards



Security ... heightened energy concerns



Changing energy needs driving more investment in technology



Challenges on several fronts

Carbon



- Technology is there
- Cost remains a barrier

Grid



- Increased peaking
- Wider grid fluctuation

Policy



- Lack of standards
- Global, disparate politics



A range of technologies are needed to resolve our energy challenges

Diversity



Coal
Gas
Wind
Solar
Geothermal
Biomass
Hydro
Oil
Nuclear

+

Performance



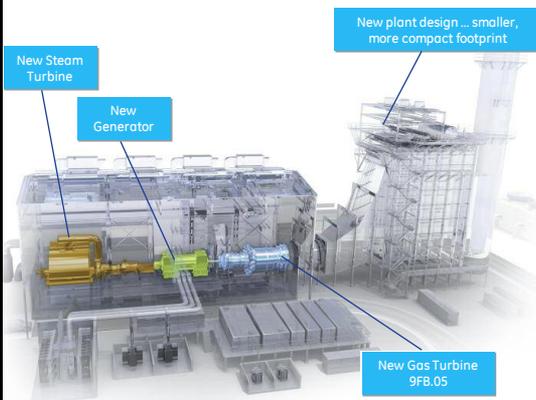
Driving cost of electricity down

Affordable, reliable & environmentally responsible



Flex Efficiency™ 50 launch

Efficiency and flexibility



- 61%+ baseload efficiency ... 510MW
- One-button start ... less than 30 minutes
- 51 MW/min ramp rate ... 50% faster than industry benchmark
- Innovative plant design ... two year construction schedule
- 18-year rotor life



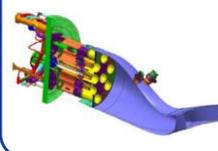
Redefining turbine efficiency

3-D Compressor Aero

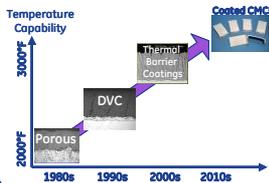


Advanced Combustion

Advanced premixing, axial fuel staging



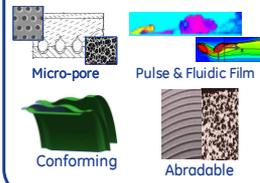
Advanced Thermal Coatings



Ceramic Matrix Composites
+300°F temperature capability vs. superalloys



Advanced Cooling & Sealing



Path toward 65% combined cycle efficiency



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Gas turbine fuel flexibility

Increasing fuel prices/volatility driving substitution for conventional fuels

- Syngas from coal and/or biomass
- "Opportunity fuels"
 - Landfill gas, methane from coal mines, blast furnace gas
- Ethanol, biodiesel, coal-to-liquids, gas-to-liquids

Key challenges ... fuel specific

- Hydrogen
 - Low ignition energy, low density, high flame temperatures
- Liquid fuels from coal or heavy oils
 - Contaminants → turbine damage
- Opportunity fuels
 - Uncertain composition

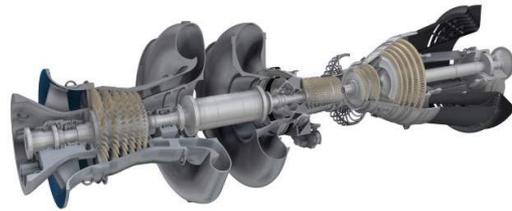
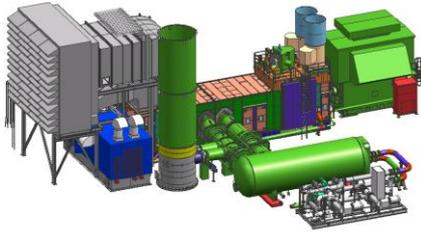


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Aeroderivative gas turbine GE LMS100®



- 44% simple cycle efficiency
- Flexible gas turbine
 - High part load efficiency
 - 10 minute start
 - High ramping capability
- Technology to enable more wind and solar power on the grid

Back-up power for renewables



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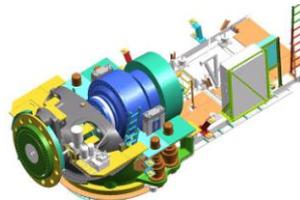
Taking wind to the next level

Longer blade ... New composite core with aero elastic design, for 8% power increase

Smaller Drivetrain ... improved reliability with ~20% mass reduction for ~0.5% AEP increase

Power electronics ... 50% increase in power density, with ~0.5% reduction in losses

Model based control ... ~1% AEP increase, 10% reduction in loads and expanded operation envelope



Driving cost leadership onshore, expanding offshore



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Differentiating large scale solar

Utility scale solutions



- Thin film efficiency excellence
- Superior energy capture
- Smarter grid integration
- Proven power electronics
- Faster installation

Commercial rooftop solution

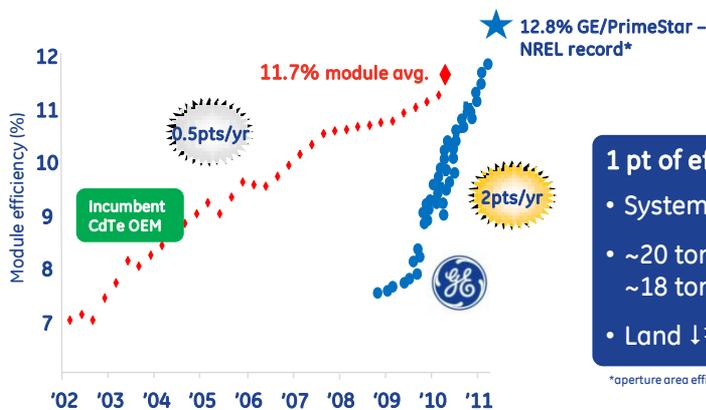


- Lightweight, high eff. thin film module
- Rugged system design with no roof penetration
- Modular and scalable; enhanced inverter portfolio

Building on 100+ years of power generation expertise



GE achieves highest recorded CdTe efficiency



Driving record efficiencies at 4X rate



Subsea technology ... pipeline for new oil production

- Move oil processing from the surface to the seabed floor
- Double amount of recoverable oil from 35% to 70% in existing wells ... access new, untapped reserves
- Driving remote, monitoring & diagnostic (RM&D) technologies for increased safety and reliability



Seafloor processing



Healthcare Solutions



Broad focus... technology throughout

Imaging	Imaging Agents	Radiopharmacy	Life Sciences	Clinical Systems	Services & Consulting	Healthcare IT
 CT  PET/CT  MRI  X-ray	  X-ray/CT  MRI  PET	 Cyclotrons  Generators  TRACERlab  Automated Radiochemistry	 Bioprocess  Protein Analysis  Cellular Analysis  Stem Cell Production	 Ultrasound  Monitoring  Life Support  Interventional	 Hospital Services  TRACERcenter  Education  Courses	 Imaging Solutions  Enterprise Solutions  Physician Office Solutions



GE Healthcare Portfolio

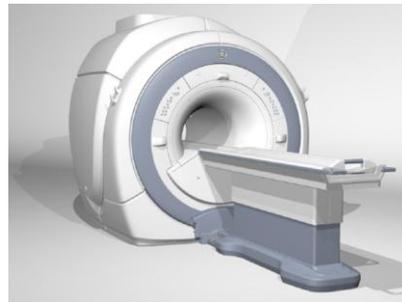
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Next generation diagnostic imaging

Next generation MRI system

- World class 1.5T MR system... "Within Reach"
- Designed to meet exact market needs... emerging and mature.
- Low costs of energy and maintenance
- Simple user interface to aid novice users
- Simplified, coil system for patient comfort
- Four proprietary GE technologies



healthymagination: Potential Impact

Product Costs



Over 10% decrease in customer TCO

Market Access



Target 9,000+ hospitals with no access to MR

Image Quality



- Superior IQ vs. Open MR
- Stronger specs, new apps vs. predecessor 1.5T



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Discovery CT750 HD

Low Dose meets high-definition

- 50%+ reduction in radiation dose for a full body scan
- Important for children and patients that need ongoing diagnostic exams
- Image resolution improved by 33% +



healthymagination: Potential Impact

Procedure Cost

15% procedure cost out

Image Quality

- Superior IQ
- Better resolution with 50-83% lower dose



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Computed Tomography

Improved image quality, lower dose

Filtered Back Projection

Basic reconstruction... used for the past 30+ years

Limited dose reduction opportunity



ASiR™

Statistical iterative image reconstruction

Improved image quality at lower dose*



Veo™

Full model-based image reconstruction

Exceptional image quality at the even lower dose*



Diagram compares 3 reconstruction methods currently applied by GE Healthcare. *Image quality measured as image standard deviation.

10 years of investments resulting in 4X dose reduction



Veio is 510(k) pending. Not available for sale in the U.S.

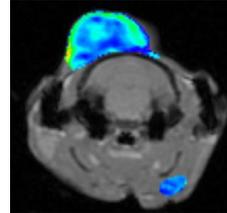
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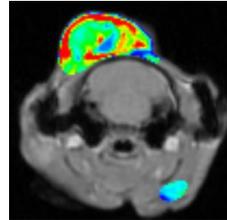
Nanoparticle contrast agents

- Helping MRI systems see things that were previously hidden
- MR functional imaging
- Angiogenesis: tumor visualization and therapy monitoring

Pre-injection



30 min post-injection



Cell Therapy

Taking the next strides in enabling cell therapy

- Access and penetration of future clinical markets by “designing-in” technologies into translational & clinical research
- GEHC to provide therapy-agnostic, regulatory compliant processing products for cell expansion & harvesting

Isolation



Expansion



Concentration

Administration



Digital Pathology

1650s - Today



Tissue on glass slides viewed and diagnosed under microscope

Tomorrow



Pathologist diagnoses via digital image

Improves

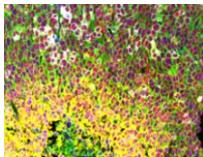
- Pathologist Productivity
- Collaboration
- Accuracy
- Speed of Result
- Computer aided diagnostics



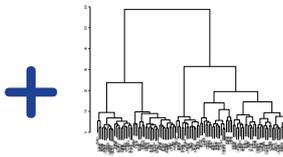
Molecular Pathology

Interrogating multiple biomarkers

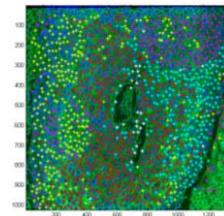
Simultaneous staining



Bioinformatics



Molecular Patterns

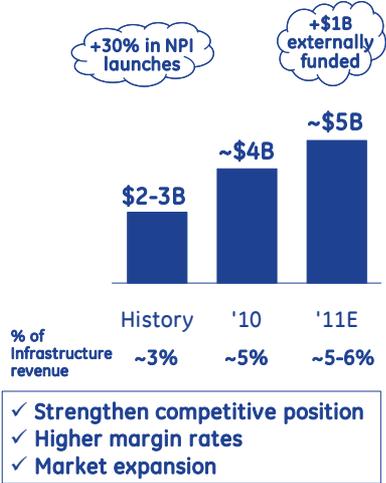


- Drug development
- Companion diagnostics
- Prognostic markers/disease staging



Launch great new products

2X R&D investment



Technical investment = growth

Key launches

Energy	<ul style="list-style-type: none"> ✓ HD gas turbines ✓ Solar ✓ Controls 	<ul style="list-style-type: none"> ✓ Smart Grid ✓ Distributed energy
O&G	<ul style="list-style-type: none"> ✓ Subsea 	<ul style="list-style-type: none"> ✓ Shale gas
Healthcare	<ul style="list-style-type: none"> ✓ DI share ✓ HCIT ✓ New tests/tools 	<ul style="list-style-type: none"> ✓ Localized NPI ✓ Pathology
Aviation	<ul style="list-style-type: none"> ✓ GENx ✓ Business jets 	<ul style="list-style-type: none"> ✓ LEAP-X ✓ Avionics
Transportation	<ul style="list-style-type: none"> ✓ Mining ✓ Battery 	<ul style="list-style-type: none"> ✓ Tier 4 ✓ Global locos
H&BS	<ul style="list-style-type: none"> ✓ New appliances line 	<ul style="list-style-type: none"> ✓ "Green" lighting

~5-10% organic orders growth in '11



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