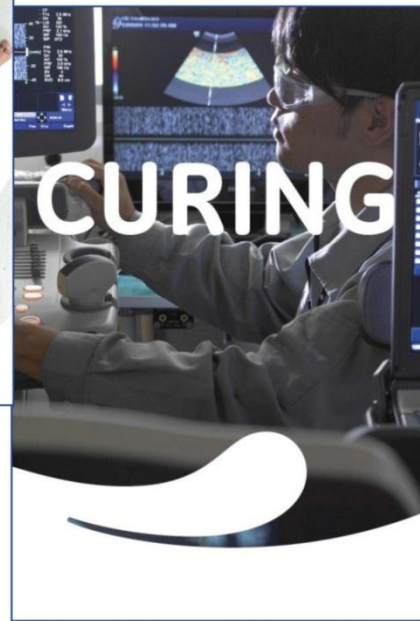


We are GE



Renewable Energy – The way to energy independence










Beograd, 7. jun 2013.



imagination at work

GE's portfolio ... structured for growth

- 8 businesses operating in more than 100 countries ... 125+ years
- >300,000 employees worldwide
- 2012 revenue ~\$147B

Oil & Gas	Power & Water	Energy Management	Distributed Power	Home & Business Solutions	Healthcare	Transportation	Aviation	GE Capital
 <ul style="list-style-type: none"> • Drilling & Surface • Global Services • Measurement & Control • PII Pipeline Solutions • Subsea Systems • Turbo-machinery 	 <ul style="list-style-type: none"> • Thermal • PG Services • Renewables • Aero-derivatives • Water • Gas engines • Nuclear 	 <ul style="list-style-type: none"> • Digital Energy • Power Conversion • Industrial Systems 	 <ul style="list-style-type: none"> • Aeroderivatives • Gas engines 	 <ul style="list-style-type: none"> • Appliances • Lighting • Intelligent Platforms 	 <ul style="list-style-type: none"> • Healthcare Systems • Life Sciences • Healthcare IT • Molecular Diagnostics 	 <ul style="list-style-type: none"> • Locomotives • Services • Propulsion Systems 	 <ul style="list-style-type: none"> • Commercial • Military • Service • Avionics/ Systems 	 <ul style="list-style-type: none"> • Commercial • Consumer • Real Estate • GECAS • EFS

Changing world dynamics...

DRIVERS

Reducing Co2 emissions



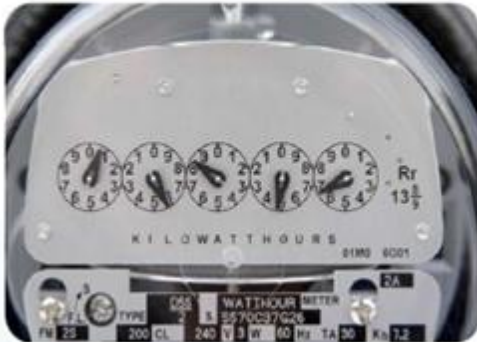
Fuel price volatility



Resource scarcity/
remote recovery efforts



Energy efficiencies



Technology advancements



Renewable energy



OUTCOMES

What is our path forward?

Today



Fast Blue

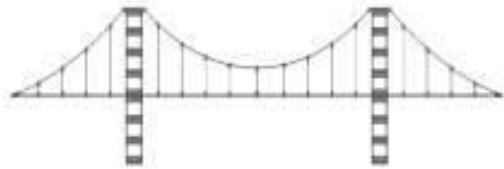
- Growth resumes
- Commodity and fuel prices stabilize
- Natural gas flourishes
- Digital wave deeply penetrates energy infrastructure
- Water stewardship increases



imagination at work

Rethinking the role of gas

“Bridge Fuel”



Old way of thinking

- Role of gas temporary ‘bridge’ to low carbon economy
- US gas supply constrained
- US facing future of high import dependency

“Destination Fuel”

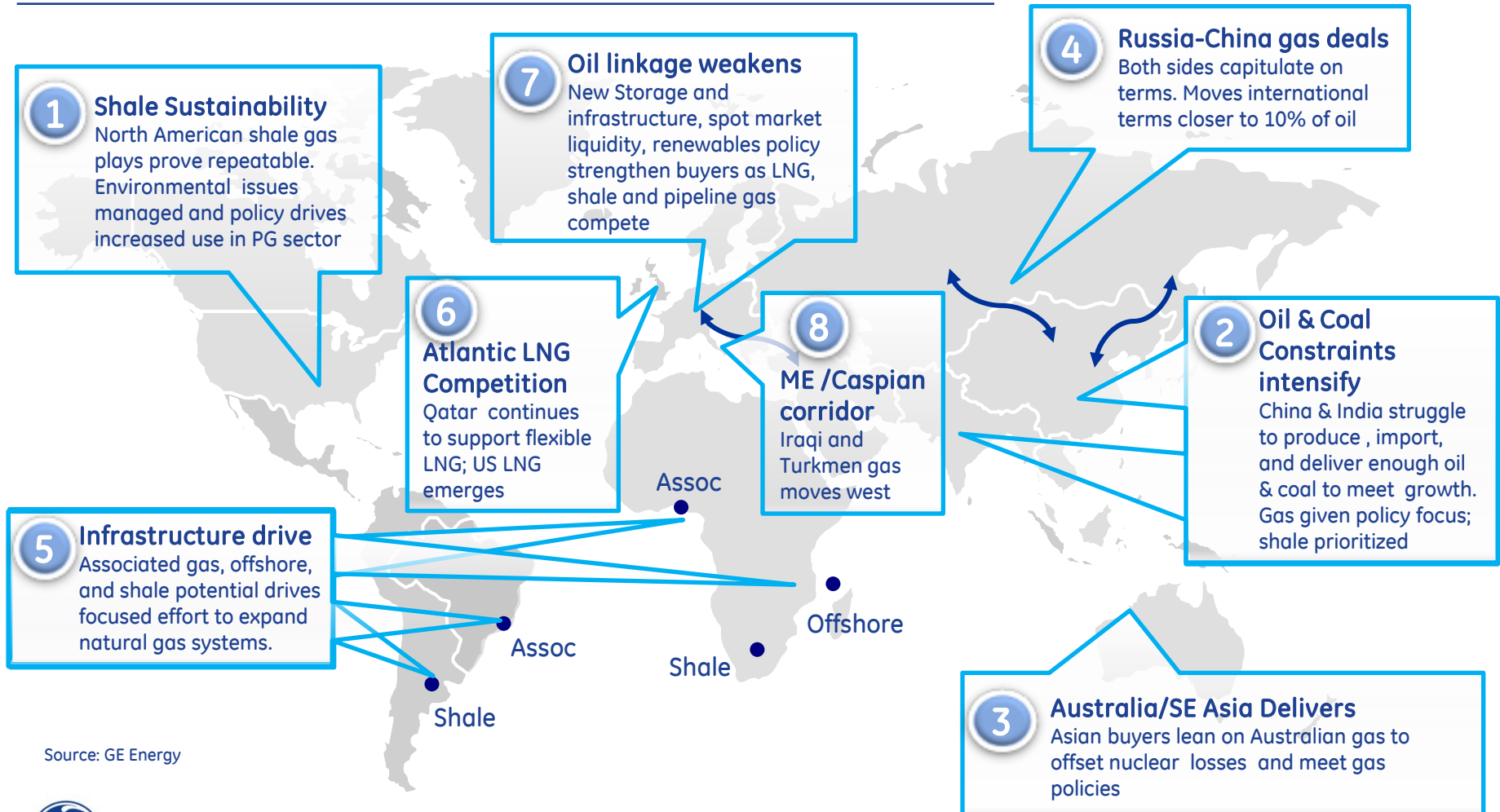


New way of thinking

- Role of gas key long term solution to achieving a low carbon economy
- US gas supply abundant
- US facing a more secure energy future

Fast blue ... key enablers

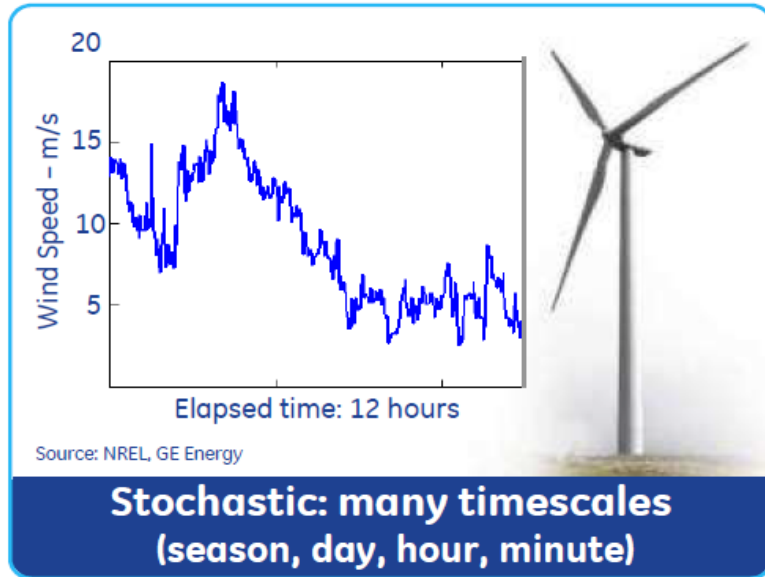
Eight steps to a fast blue future



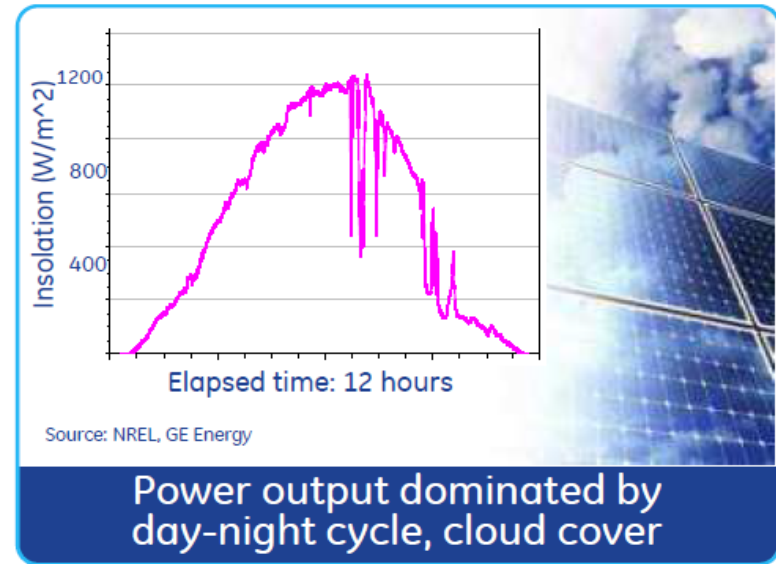
Source: GE Energy

Integrating renewables

... wind and solar have different variability trends



Less certain & Less variable
Second-to-second variability is low.
If amount of wind is low, variability acts like a load modifier.
If high, variability can impact the balancing of power.



More certain & More variable
Predictable daily curve, often "chopped up" by cloud cover.
If amount of PV is low, variability acts like load modifier.
If high, variability can have significant voltage impact.

Integration... gas + renewables



Gas



Renewables

Central and distributed

Flexible supply to grid

Ability to co-dispatch with wind

Proven technology

Large installed base (1,325 GW)

Lower carbon footprint than coal

Distributed

Intermittent supply to grid

Zero marginal production cost

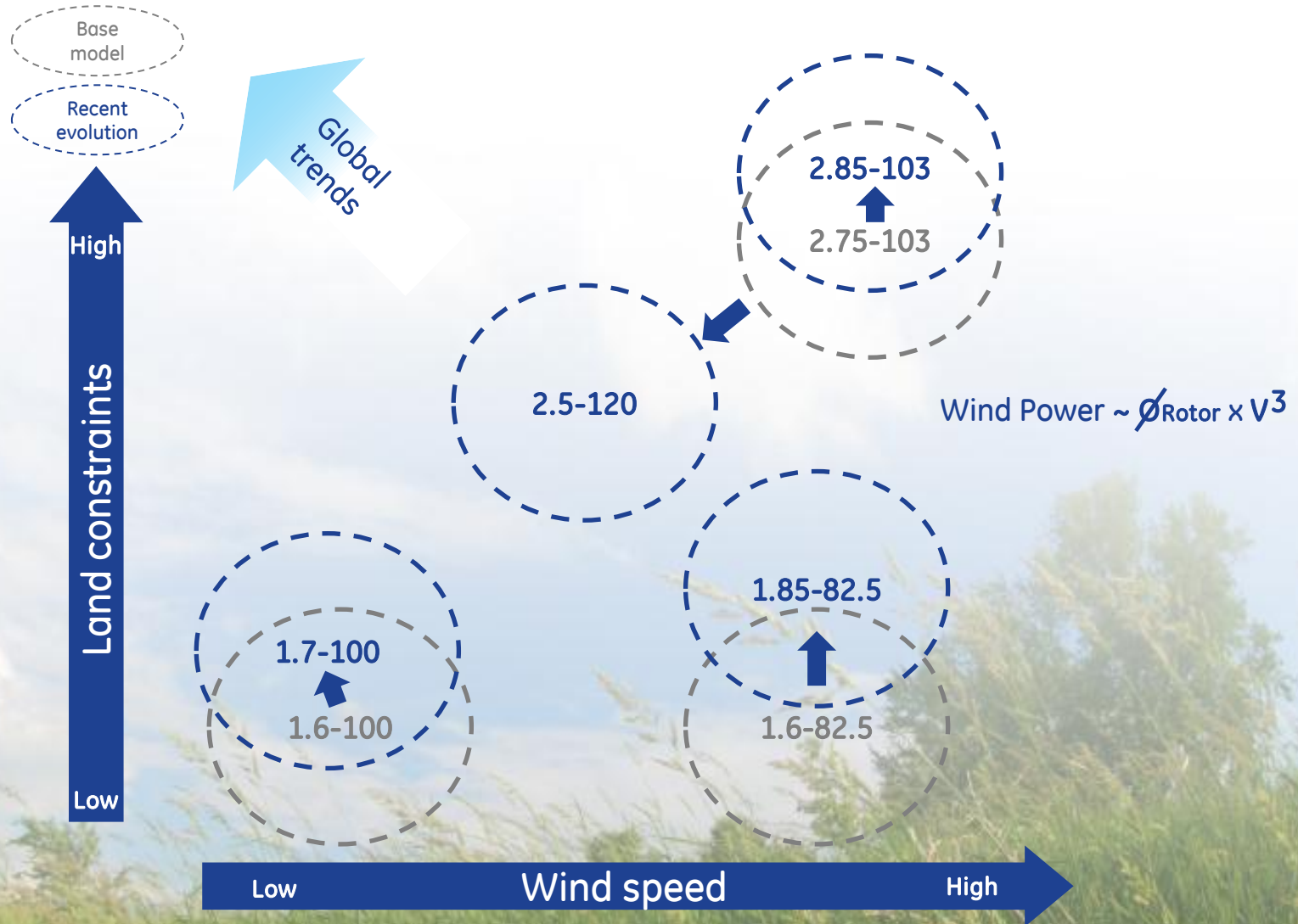
Strong social and local acceptance

Rapidly growing installed base (250 GW)

Zero carbon emissions

Bringing together complementary capabilities

GE Wind... Global Product Portfolio



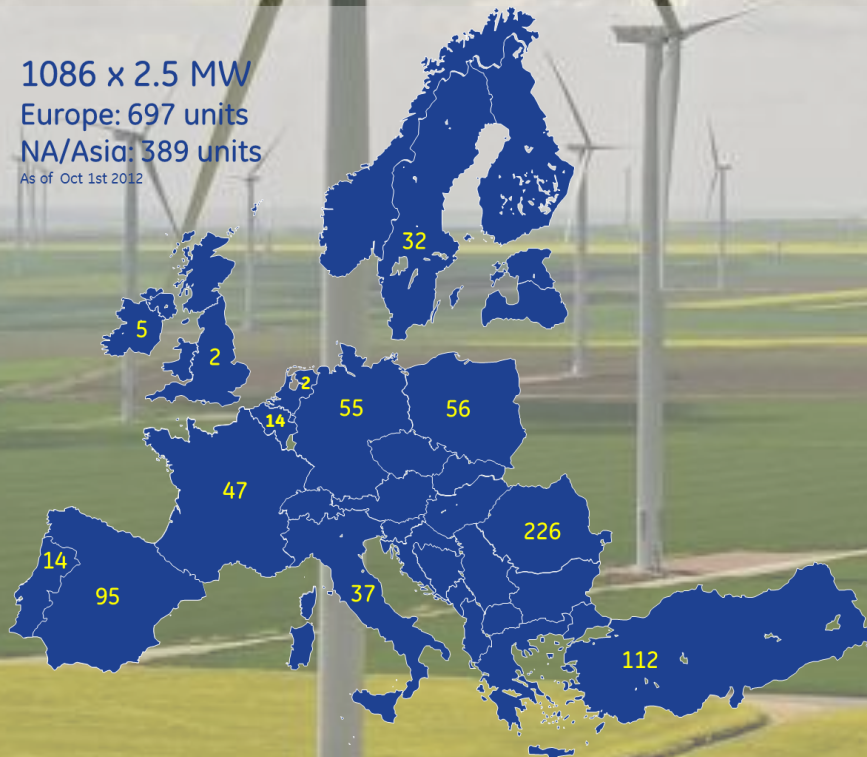
Evolutionary products for today and tomorrow's sites

2.5MW Platform - Turbine of Choice

We have validated

- Operating temperature ... Japan, Spain, Turkey
- Turbulence intensity ... Portugal, Japan, Turkey
- Altitude ... Turkey
- Wind speed ... The Netherlands, Turkey
- Grid ... Turkey, Romania, Eastern Europe
- Humidity, seismic, typhoons ... Japan
- 60Hz operation ... Japan, USA, Canada

1086 x 2.5 MW
Europe: 697 units
NA/Asia: 389 units
As of Oct 1st 2012



Largest Wind Farm in N. America

Shepherds Flat Wind Farm – 845 MW

Eastern Oregon Morrow & Gilliam counties

Largest Wind Farm in Europe

Fântânele-Cogealac Wind Farm – 600 MW

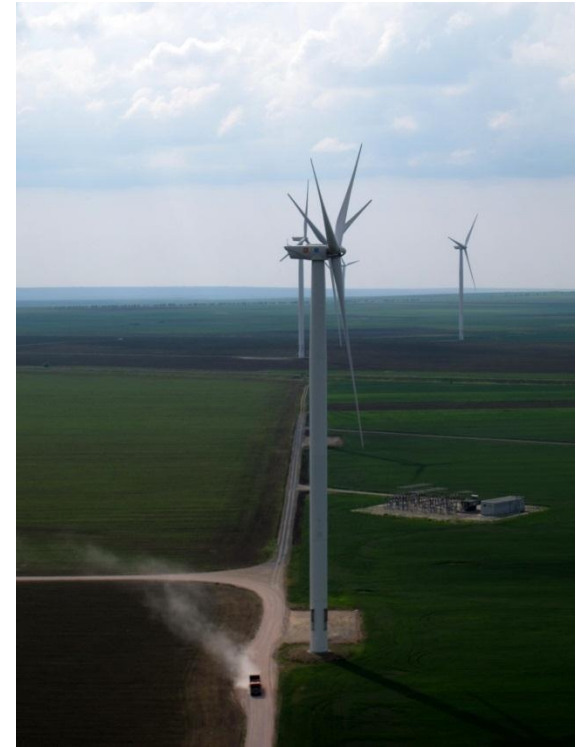
South East Romania



World's most efficient, high output, Brilliant wind turbine

Romania Wind...a great success

- 240 x 2.5 MW Wind Turbines. Total 600 MW
- Surrounding 3 small villages 50km north of Constanta (Fantanele, Cogealac, Gradina)
- 260km of access roads built





imagination at work