



GE T&D India Limited

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<https://www.ge.com/in/ge-td-india-limited>

September 12, 2023

The Secretary
BSE Limited
Phiroze Jeejeebhoy Towers
Dalal Street
Mumbai- 400 001

The Manager
Listing Department
National Stock Exchange of India Ltd
Exchange Plaza, Bandra Kurla Complex, Bandra (East)
Mumbai- 400 051

Code No. 522275

Symbol: GET&D

Dear Sir,

Sub: **Analyst Presentation**

This is in continuation to our earlier intimation dated September 8, 2023, Please find attached a copy of the presentation that may form part of the discussion during the meeting.

You are requested to take note of the same.

Thanking you,

For GE T&D India Limited

Anupriya Garg
Company Secretary & Compliance Officer
Membership No. A18612
Contact No.: +91-120-5021500

Encl: A/a



GE T&D India Limited

POWERING THE NEW INDIA

Analyst Presentation
September 13, 2023



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Safety Moment

How Our Reactions Slow

This chart shows the percentage increase in distracted drivers' response times.

An undistracted driver typically reacts in 1 second



Driving at 56mph the stopping distance for a driver using a hand-held phone increases by 13.1m compared to an alert driver.

Source: Transport Research Laboratory





GE VERNOVA

Our portfolio of energy businesses

GE Vernova Group Overview

T&D Challenges/ Growth Drivers

Technology to address Market/Challenges

GE T&D India Ltd

Financials

WE ARE



GE VERNOVA

For the new era of energy...a new company with full focus on the energy transition

80K

Global employees

140+

Countries

12

Businesses

- Digital
- Financial Services
- Gas Power
- Grid Solutions
- Solar and Storage Solutions
- Hydro Power
- Nuclear Power
- LM Wind Power
- Offshore Wind
- Onshore Wind
- Power Conversion
- Steam Power
- Advanced Research*
- Consulting Services*

*Accelerators

OUR CHALLENGE:

ELECTRIFY THE WORLD
WHILE DECARBONIZING IT

GE Vernova Portfolio of Businesses: One-of-a-Kind

Planned Structure



CONVENTIONAL POWER

Gas Power



- Heavy Duty Gas Turbines
- Aeroderivative Gas Turbines
- Steam Turbines/Generators
- Services

Steam Power



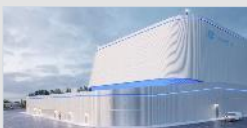
- Post Rochambeau
- US Nuclear, Global Coal
- Steam, Generators, Boilers
- Services

Hydro



- Hydro Turbines/Generators
- Pumped Storage

Nuclear



- Boiling Water Reactors
- Fuel
- Small Modular Reactors

WIND

Onshore Wind



- 2 -3.5 MW platform
- 5 – 6 MW platform
- Services & repowering

Offshore Wind



- Haliade-150 (6 MW)
- Haliade-X (14 MW)

LM Wind Power



- Onshore wind blades
- Offshore wind blades (Haliade-X)

ELECTRIFICATION

Grid Solutions



- Transmission
- Power Transformers
- Grid Automation

Power Conversion



- Oil & Gas electrification
- Naval electrification
- Microgrids

Solar & Storage Solutions



- Inverters
- Energy storage

DIGITAL



- Grid Software
- Opus One Platform
- Manufacturing
- Power, Oil & Gas
- Aviation

ENERGY FINANCIAL SERVICES

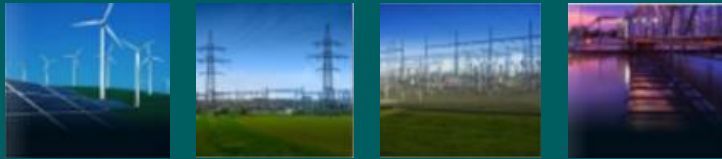
- 3rd party financing support e.g., Export Credit Agencies (ECAs), governments, banks
- Direct financing through equity

Electrification Portfolio

Transmission, Distribution & Energy Intensive Industries



GRID SOLUTIONS



Generation Transmission Distribution Industries

Converters, Switches, Transformers, Protection & Control Solutions & Services

High Voltage

System Integration

- HVDC / FACTS
- HVAC Systems
- Electrical Balance of Plant

HV/MV Equipment

- Switches
- Circuit Breakers
- Disconnectors
- Transformers
- Capacitors
- Reactors

Automation & Protection

- Digital Substations
- Asset Performance Mgmt
- Energy Mgmt

POWER CONVERSION



Marine Oil & Gas Power Electro-Intensive Industries

Propulsion, Generation, Distribution, Power Quality Solutions & Services

Medium and Low Voltage

Rotating Machinery

- Motors
- Generators
- Synchronous Condensers

Power Electronics

- VFD / VSDS
- STATCOM / VSC
- MMC Multi-level converters

Automation & Controls

- Microgrids
- APM
- EMS Energy Management

SOLAR & STORAGE SOLUTIONS



Hybrid Power Evacuation

Distribution

Solar Inverters, Battery Storage, Hybrid Performance Management Solutions & Services

Medium and Low Voltage

Solar Inverters

- FlexInverter

Battery Systems

- FlexReservoir

Digital Solutions

- FlexIQ
- Planification
- Asset Performance Mgmt

GE GRID SOLUTIONS



GE VERNOVA

\$3.2B

2022 Revenue

70+

Countries In
Which We Have
Employees

12,000

Global Employees

2,800

Engineers
Worldwide

1,200+

Recognized
Power System
Industry Experts

90%

of Power Transmission
Utilities Have Been
Equipped By GE

Note: In 2022, the Electrification segment's revenue amounted to ~\$4 bln. Incl GE Digital, the amount was ~ \$5 bln.



— *Our Mission as GE's Grid Solutions*

We electrify the world with advanced grid technologies and accelerate the energy transition.



Enabling Safe, Reliable, and Efficient Processes

FLEXIBLE SOLUTIONS FOR DEMANDING APPLICATIONS ACROSS INDUSTRIES



GENERATION



TRANSMISSION



DISTRIBUTION



INFRASTRUCTURES & CITIES



OIL & GAS



MINING



METALS



PROCESSING & MANUFACTURING



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Financials

Trends Disrupting The Traditional Power Sector



DECARBONIZATION

RENEWABLE ENERGY will account for 64% of new global capacity over the next 10 years



DIGITIZATION

GROWING NUMBER of connected assets through smart sensors, management and new software capability



DECENTRALIZATION

MORE GENERATION will be coming from distributed resources and the rise of prosumers



ELECTRIFICATION

INCREASE of electric transportation and electrical heating








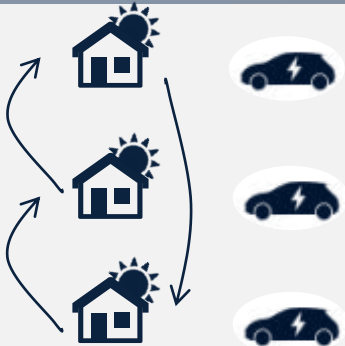


The Energy Transition: how does it impact the grid?

FROM



TO

	FUEL	GENERATOR	GRID	LOADS
	 <ul style="list-style-type: none">• Easy to control• Dispatchable on demand	 <ul style="list-style-type: none">• Provides inertia• Can start grid from zero	 <p>One-way flow of electricity from transmission to distribution</p>	 <ul style="list-style-type: none">• Relatively Predictable
	 <ul style="list-style-type: none">• Intermittent• Limited dispatchability	 <ul style="list-style-type: none">• Limited natural inertia and ability to start grid	 <p>Two-way flow with distributed generation feeding transmission</p>	 <ul style="list-style-type: none">• Difficult to predict• Distributed Generation

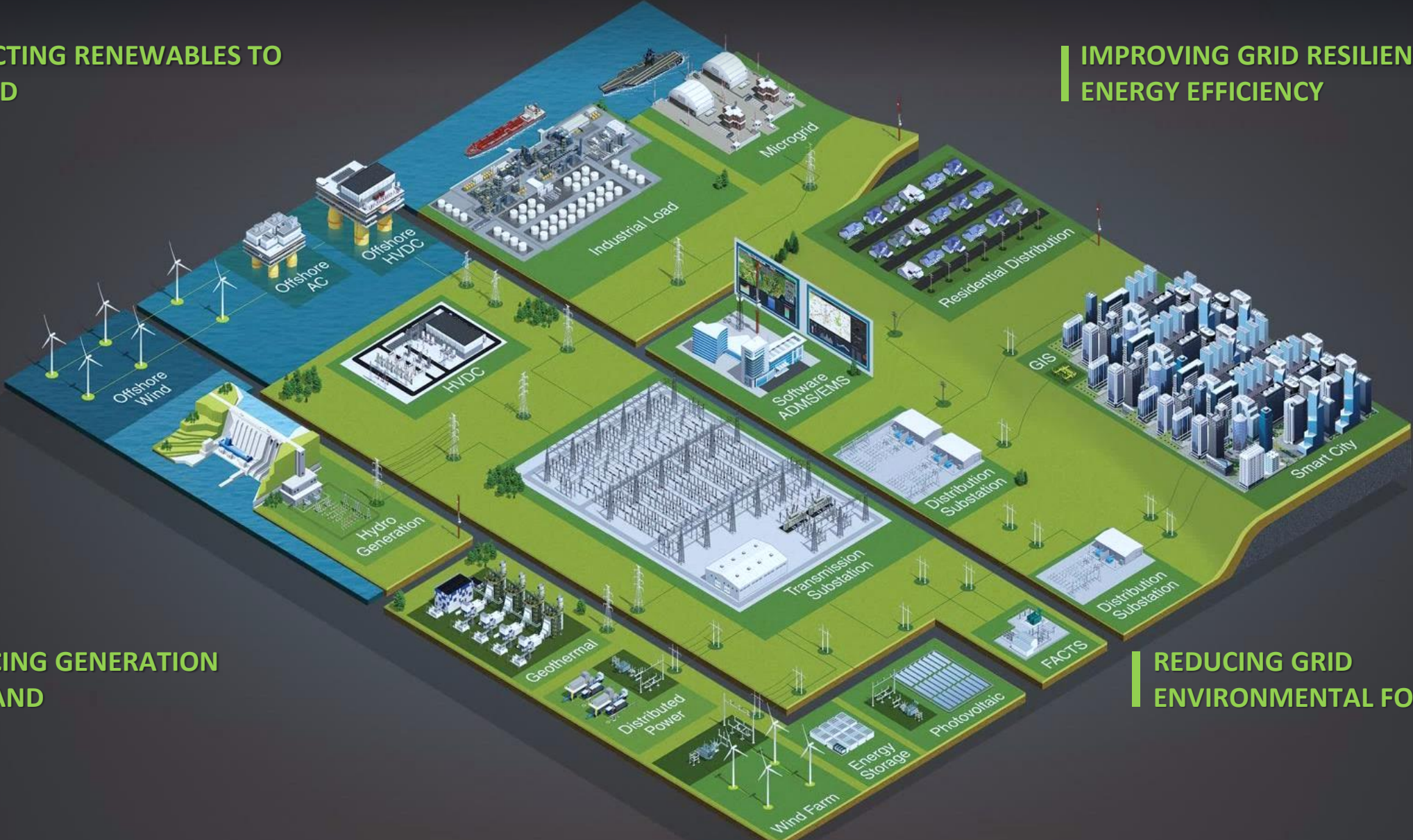
The grid was designed for a different way of producing and consuming energy



Understanding Our Industry Challenges

CONNECTING RENEWABLES TO THE GRID

IMPROVING GRID RESILIENCE AND ENERGY EFFICIENCY



BALANCING GENERATION & DEMAND

REDUCING GRID ENVIRONMENTAL FOOTPRINT



Understanding Our Industry Challenges

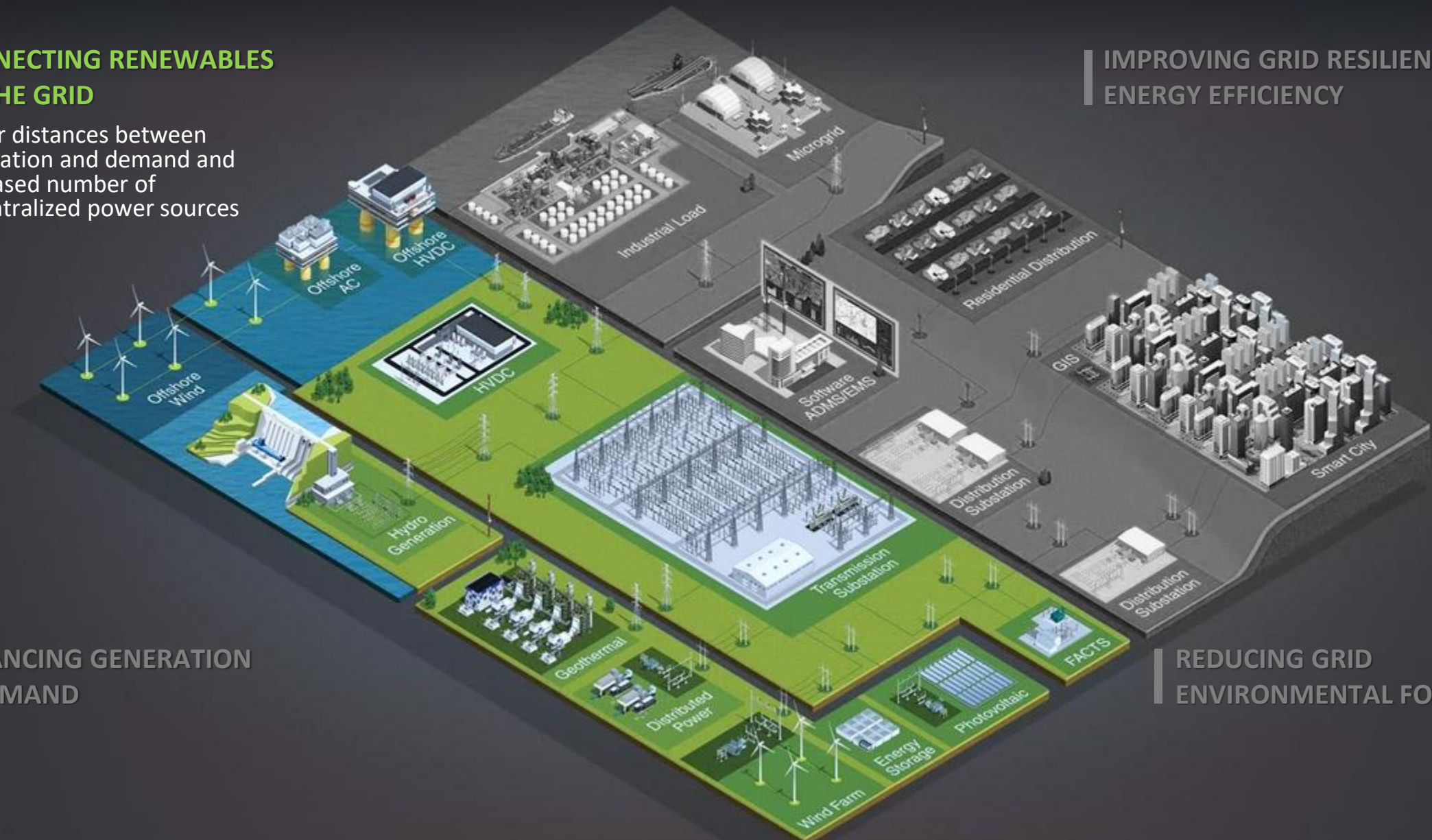
CONNECTING RENEWABLES TO THE GRID

Larger distances between generation and demand and increased number of decentralized power sources

IMPROVING GRID RESILIENCE AND ENERGY EFFICIENCY

BALANCING GENERATION & DEMAND

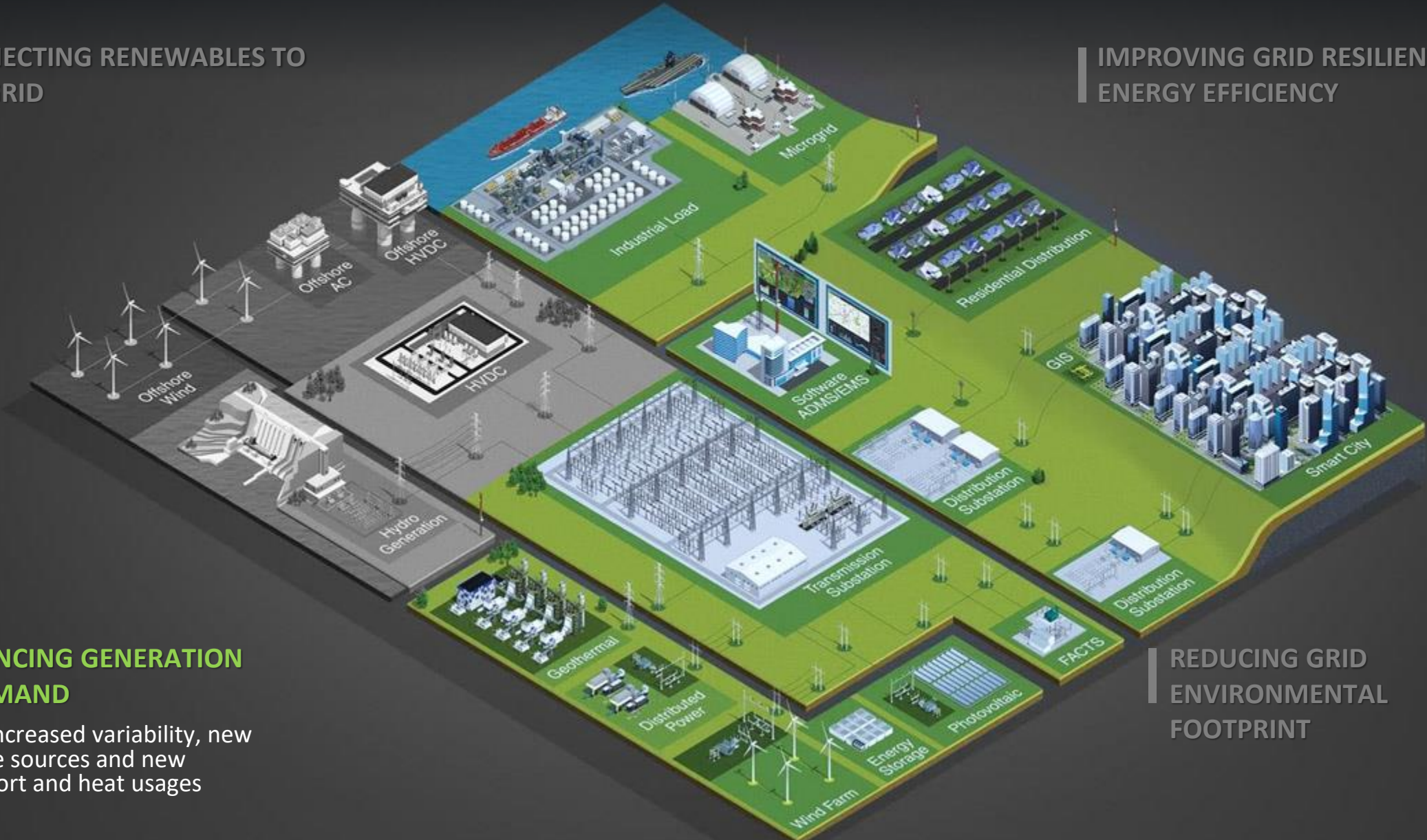
REDUCING GRID ENVIRONMENTAL FOOTPRINT



Understanding Our Industry Challenges

CONNECTING RENEWABLES TO THE GRID

IMPROVING GRID RESILIENCE AND ENERGY EFFICIENCY



BALANCING GENERATION & DEMAND

With increased variability, new flexible sources and new transport and heat usages

REDUCING GRID ENVIRONMENTAL FOOTPRINT

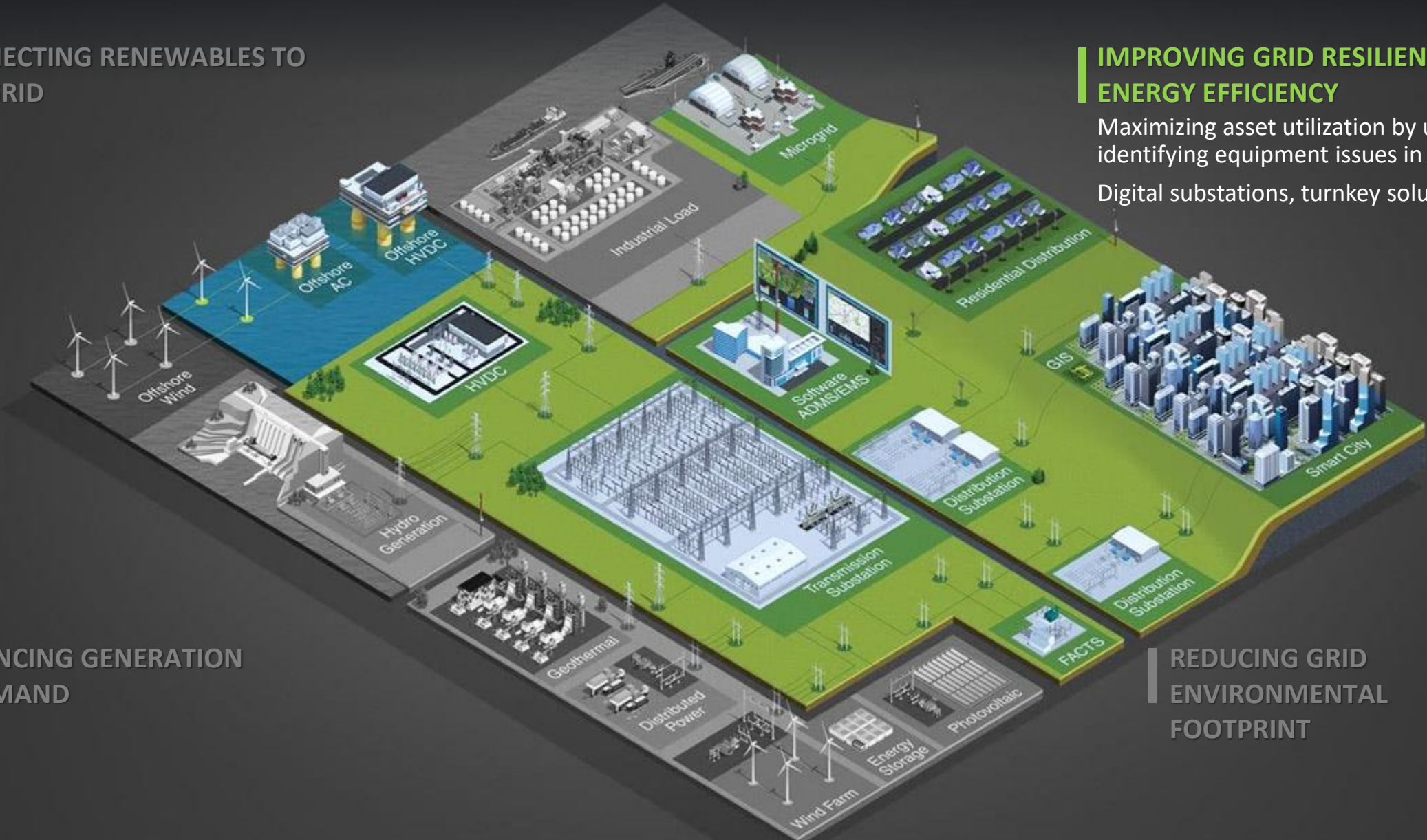


Understanding Our Industry Challenges

CONNECTING RENEWABLES TO THE GRID

IMPROVING GRID RESILIENCE AND ENERGY EFFICIENCY

Maximizing asset utilization by up to 15% and identifying equipment issues in advance
Digital substations, turnkey solutions, services



BALANCING GENERATION & DEMAND

REDUCING GRID ENVIRONMENTAL FOOTPRINT



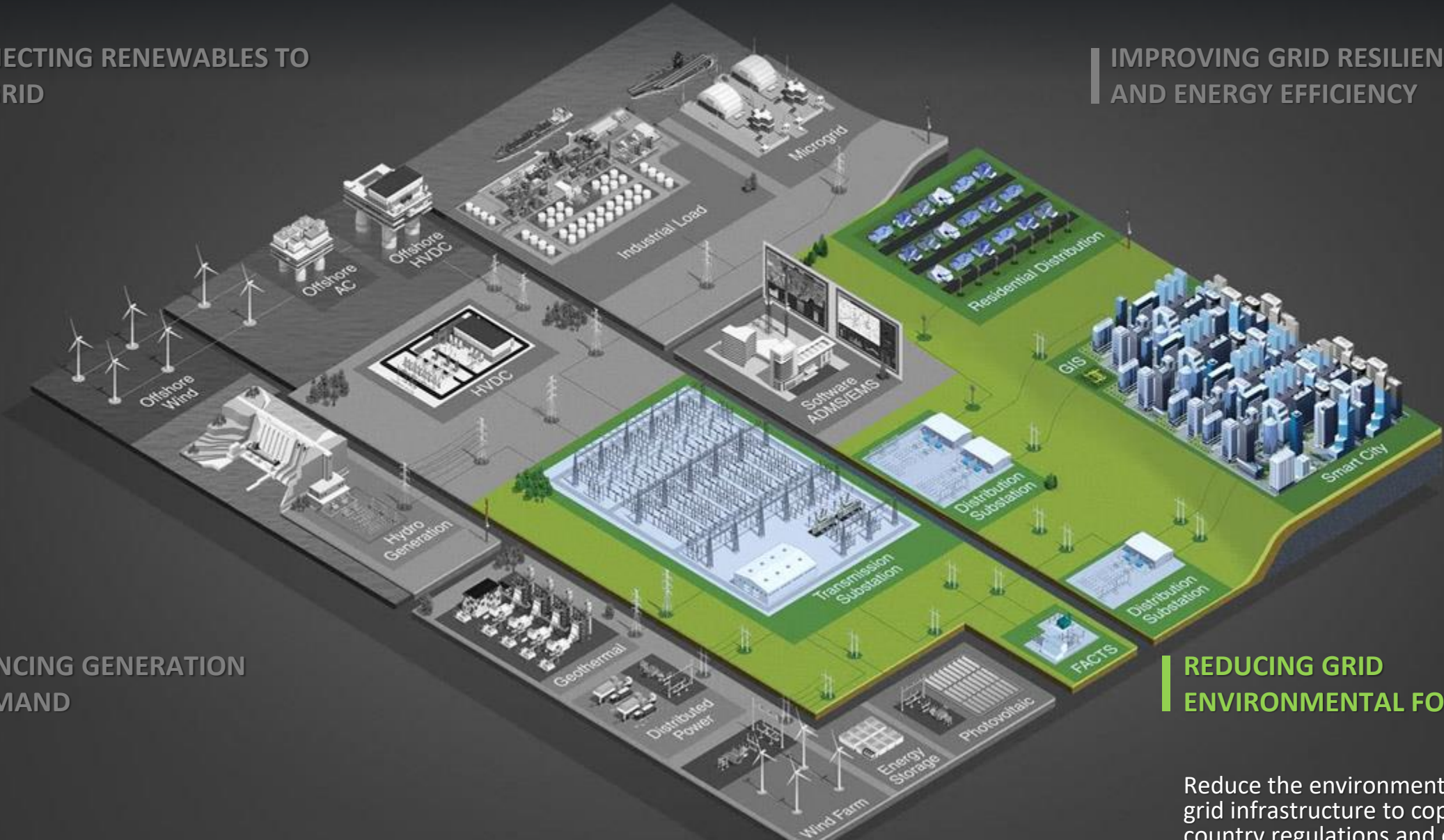
Understanding Our Industry Challenges

CONNECTING RENEWABLES TO THE GRID

IMPROVING GRID RESILIENCE AND ENERGY EFFICIENCY

BALANCING GENERATION & DEMAND

REDUCING GRID ENVIRONMENTAL FOOTPRINT



Reduce the environmental impact of grid infrastructure to cope with country regulations and objectives



GE VERNOVA

Our portfolio of energy businesses

GE Vernova Group Overview

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GE T&D India Ltd

Financials

Six Breakthrough Technologies

SF₆-free alternatives

for elimination of
world's worst
greenhouse gas

FACTSFlex

Modern power
electronics for
enhanced AC grid
controllability &
power transfer

Multi-terminal HVDC, Multi Vendor

for increased supply
security, supply chain
flexibility & resilience

Next-Generation Substation

for grid flexibility, data access
& performance optimization

Autonomous Control

for enhanced grid
resilience

Private Operational Technology (OT) Communications Infrastructure

for performance & control

THE GE ADVANTAGE

A BROAD PORTFOLIO OF PRODUCTS & SOLUTIONS HELP ENSURE THE HIGHEST LEVELS OF AVAILABILITY, SUSTAINABILITY & EFFICIENCY



**COMPREHENSIVE
PORTFOLIO**



**APPLICATION
EXPERTISE**



**ENGINEERING
SERVICES**



**PROJECT
MANAGEMENT**



**SERVICE &
WARRANTY**

BULK POWER TRANSFER TO INTERCONNECT REGIONS

HVDC - HIGH VOLTAGE DC TRANSMISSION SYSTEMS

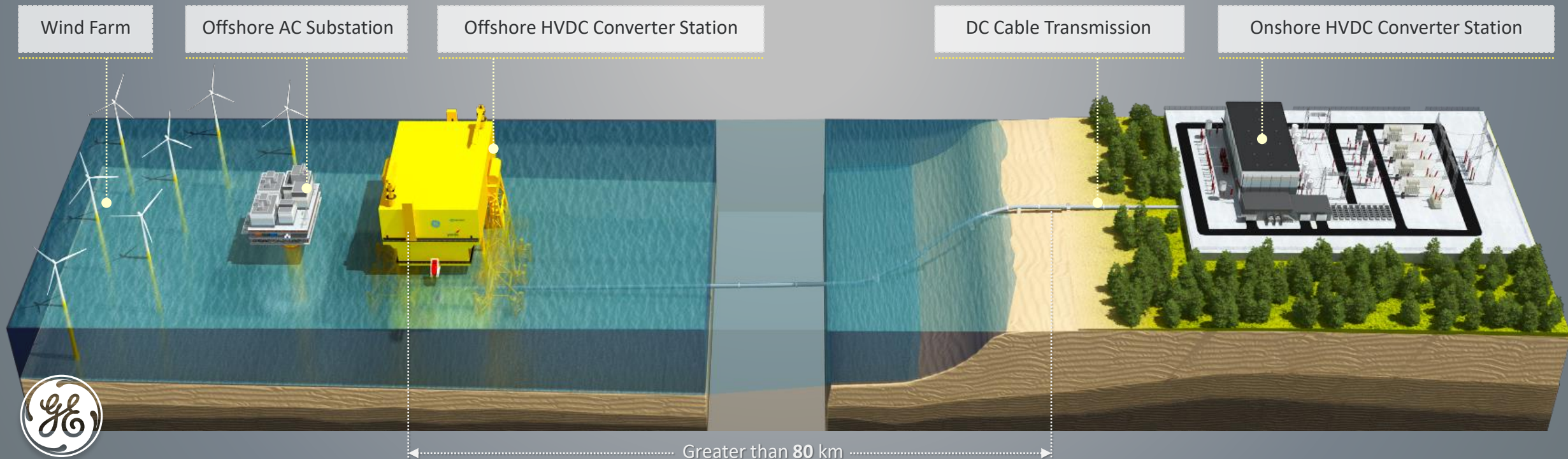
3x CAPACITY
OVER LONGER DISTANCES
LOWER COST

WORLD'S LONGEST DC LINK
(2,400 KMS)

WORLD'S 1ST 3-TERMINAL
HVDC SYSTEM

WORLD'S HIGHEST RATED
SUBMARINE CABLE LINK (2000 MWatts)

WORLD'S 1ST OVERHEAD LINE HVDC
USING DMR (800 kV, 3000 MWatts)



DECONGESTING TRANSMISSION NETWORKS

WITH FLEXIBLE AC TRANSMISSION SYSTEMS (FACTS) TO MAXIMIZE POWER FLOW & STABILITY

REDUCE LINE IMPEDANCE TO INCREASE
TRANSMISSION LINE CAPACITY

by up to **4x** USING FIXED SERIES
COMPENSATION

WORLD'S 1ST SERIES BANK INSTALLED
IN 1928

PIONEERED SUB-SYNCHRONOUS RESONANCE
FILTERING INTO FIXED SERIES COMPENSATION

1ST COMMERCIALY AVAILABLE
STATCOM CHAIN

WORLD'S ONLY MAIN REACTOR SVC SUPPLIER,
REDUCING FOOTPRINT & HARMONICS

Power Transformers

Phase Reactors

VSC Vales &
Control Room

Thyristor Switched
Capacitors



INTELLIGENT DIGITAL SUBSTATION

DELIVERING ADVANCED CONTROLS, ASSET DIAGNOSTICS, SITUATIONAL AWARENESS SOLUTIONS & TURN-KEY SUBSTATIONS

REDUCE SUBSTATION
PROTECTION & CONTROL LABOR
AND MATERIAL COST

BY UP TO **50%**

ELIMINATE UPTO 200 KMs of
COPPER WIRING

IMPROVE SERVICE TEAM
EFFICIENCY BY UPTO 80%

UP TO 15% INCREASE IN
ASSET UTILIZATION

UP TO +50% REDUCTION IN
SUBSTATION FOOTPRINT

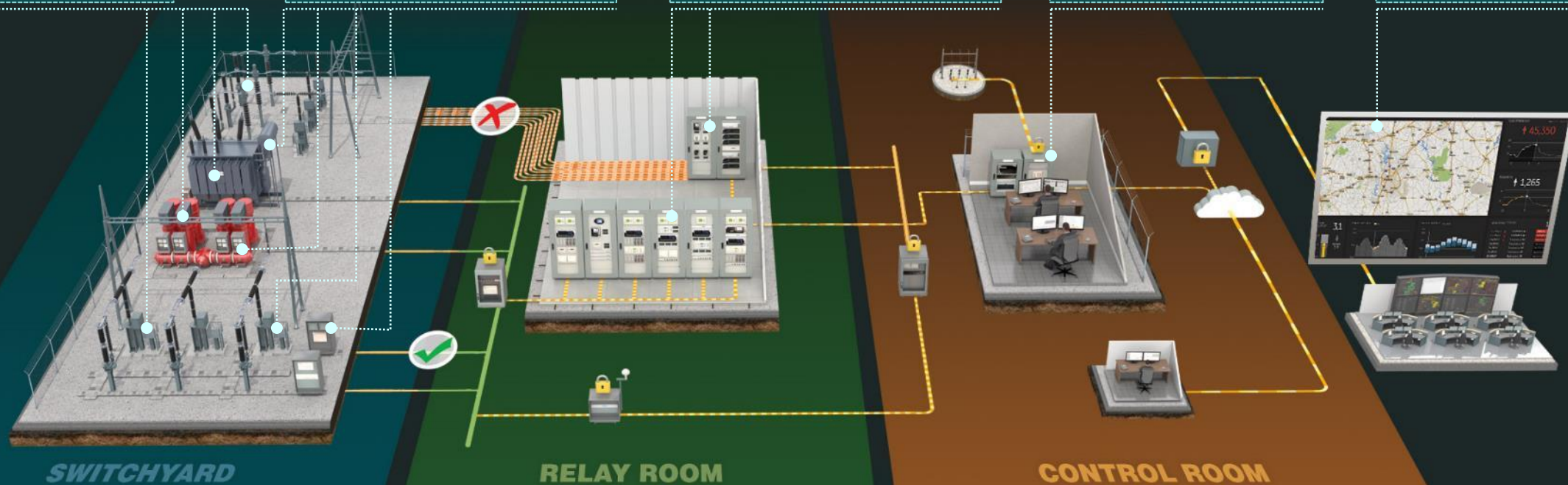
Digitize Primary Equipment

Asset Monitoring & Diagnostic

Advanced Protection & Control

Local & Remote Control

Grid Control



ALTERNATIVE TO SF₆ – GE's g³ GAS

REDUCE GLOBAL WARMING IMPACT AND COST



DELIVERING THE SAME OPERATIONAL PERFORMANCE & SAFETY LEVEL AS SF₆



**REDUCTION
IN GLOBAL WARMING
POTENTIAL**



**SAME SWITCHGEAR
FOOTPRINT AND
TEMPERATURE RANGE**



**FULLY TYPE TESTED
AND COMMERCIALY
AVAILABLE**



GRID SOFTWARE SOLUTIONS

■ SINGULAR PRODUCT MENTALITY

Previously product lines held independent market realities and did not aggressively look for opportunities to leverage and complement each other

■ MOVING RAPIDLY TOWARDS INTER-OPERABILITY

Sharing resources and budgets, leveraging standards based data formats, comprehensive workflow support and increasingly utilizing shared data stores

■ ACCELERATE CUSTOMER TIME TO VALUE

By reducing the cycle times to deploy, where our solutions are simpler, cheaper, and easier to install and upgrade.

■ MODULAR ARCHITECTURE FOR CUSTOMER CHOICE

Enables a customer / prospect to engage at any level of the solution set in the adjacent graphic, accelerating a maturity model toward predictive and autonomous solutions.

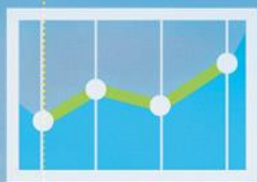


ASSET LIFECYCLE MANAGEMENT

FLEXIBLE SERVICES OPTIMIZING GRID ASSET PERFORMANCE MANAGEMENT STRATEGIES

IMPROVING
RELIABILITY
AND VALUE

DIGITALIZED
INSPECTIONS



ON-LINE
MONITORING



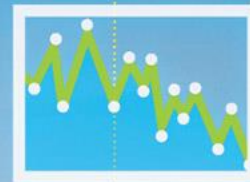
ENERGYAPM POWERED
WITH MODELS &
ANALYTICS



MAINTENANCE &
OPTIMIZATION
SERVICES



GUARANTEED
OUTCOMES



up to **50%**
failure rates reduction

up to **25%**
maintenance reduction

up to **20%** of
replacement cost deferred

180% return on
investment in 2 years





GE VERNOVA

Our portfolio of energy businesses

GE Vernova Group Overview

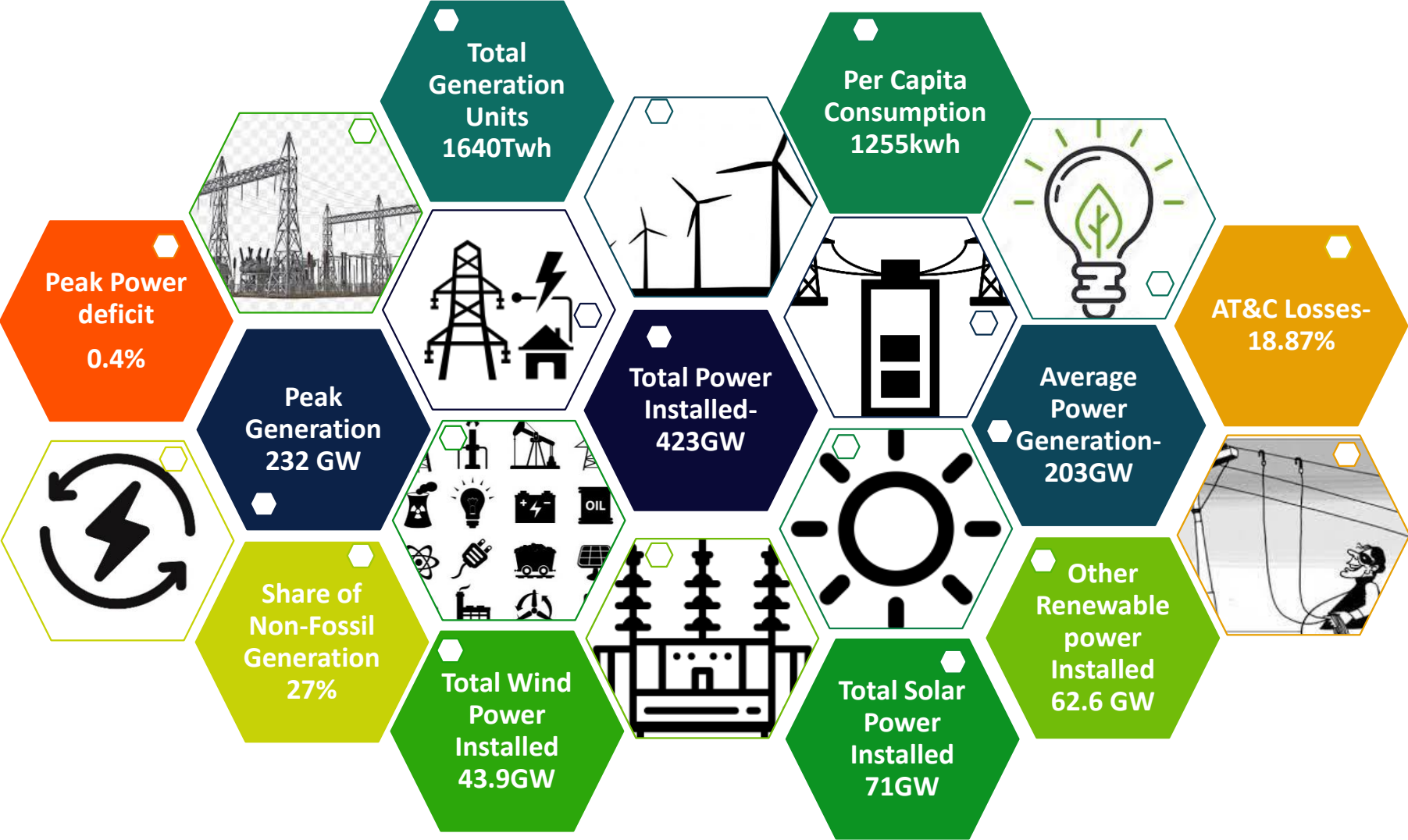
T&D Challenges/ Growth Drivers

Technology to address Market/Challenges

GE T&D India Ltd

Financials

Electrifying India 2023



2030 Targets

REN GEN
500GW

REN Share
+40%

AT&C Loss
<8%

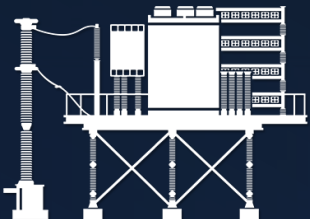
Per capita
2500kwh

Total IB GEN
900GW



Advanced Grid Products & Services

INDUSTRY LEADING PRIMARY EQUIPMENT & EXPERTISE



Power Electronics

High Voltage DC
Flexible AC Transmission Systems
Industrial DC Substations



High Voltage Equipment

Transformers
Gas Insulated Substations
Air Insulated Substations
Capacitors & Reactors



Projects

Turnkey Projects & Consulting
Electrical Balance of Plant
High Voltage Substations
Microgrids



Services

Asset Lifecycle Management
Maintenance & Repair
Upgrade & Modernization
Training



INDUSTRY LEADING DIGITAL SOLUTIONS



Automation & Protection

Protection & Control
Substation Automation
Communications
Digital Substations



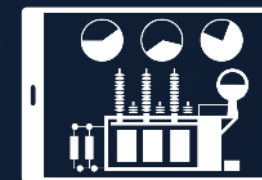
Asset Management

Remote Monitoring & Diagnostics
Advanced data analytics & Prognostics
Fleet Management
Asset Performance Management



Energy Management

Energy management
Microgrids & DER Management
Wide Area & Interconnected Networks
Virtual power plants



Grid Software*

Grid Operations & Optimization
Distribution & Outage Management
Digital Workforce
Geospatial & Mobile Solutions

*Supplied by GE Digital



Making in India Since 1957

Corporate Office in Noida, 5 Manufacturing Sites, 8 Sales Offices



Pallavaram, Chennai

- Est 1958
- Relays Manufacturing and service
- Control and relay panels
- SCADA



Paddappai, Chennai

- Est 2009, existed since 1995
- Perungudi
- GIS Equipment up to 765kV
- AIS Circuit Breakers up to 765kV



Vadodara, Gujarat

- Est 2009, existed since 1957 in Naini
- Trafo & Reactor up to 765 kV
- Converter Transformers for HVDC
- Exports in Australia & Malaysia



Hosur, Tamil Nadu

- Est 2009 in Hosur, existed since 1975 in BLR
- AIS Current Transformers up to 765kV
- AIS CVT
- AIS Wave Trap



Sector 83, Noida

- Digital Grid Noida - 25 Years in existence
- 4-6 Control Centre Platform
- Assembly & Integration ~100 Panel Platform
- Test Lab Facilities



Sector 128, Noida

- Corporate Office
- AC Projects Upto 765 KV
- HVDC Projects 765kV
- Compensation Service and Spares

Map not to scale for illustrative purposes only.

Pioneer in T&D Technology



INDIA'S FIRST
765 kV Air Insulated Substation at
Sipat, Madhya Pradesh for PGCIL



INDIA'S LARGEST
400 kV GIS for 800kV HVDC
Kurukshetra Substation – First
to establish GIS factory in India



HIGHEST NUMBER
of 765 kV Transformers/Reactors
(>600) manufactured locally + 800
kV HVDC transformers



INDIA'S FIRST
UHVDC 800 kV Transformer for
Champa Kurukshetra Project for
PGCIL



WORLD'S LARGEST
Wide Area Monitoring system
for Power Grid at Manesar
(NTAMC)



INDIA'S FIRST
765 kV locally manufactured GE
GIS Commissioned at Phagi



INDIA'S FIRST
Digital Substation at Jambuva,
Gujarat for GETCO



FIRST AND LARGEST
Airport Power Supply System,
Delhi T3



NLDC/RLDC
India, Bhutan, Bangladesh, Sri
Lanka

Board of Directors



GE VERNOVA

Non – Executive
GE Directors



Mahesh Palashikar
Chairman

Mr. Mahesh Palashikar is an accomplished global business leader with cross-functional, multicultural business experience of over thirty-five years in GE and Philips



Mr. Johan Bindele

Mr. Johan Bindele has more than 25 years of experience in the energy industry, which includes running operations & large projects in India, Nepal, Sudan, Switzerland, and the US.



Sandeep Zanzaria
MD & CEO

Mr. Sandeep Zanzaria has extensive experience of over 33 years in T&D Sector in India. Along with his current Role, he is also Strategy & Growth Officer for GE Grid Solutions for Asia Pacific.



Sushil Kumar
Whole Time Director & CFO

Mr. Sushil Kumar has rich finance experience of 23 years working with organizations like GE, Alstom, Areva and Schneider in various financial domains

Independent
Directors



Ms. Neera Saggi

Ms Neera Saggi is member of Indian Administrative Service. She has worked within the government with multiple stakeholders and in different sectors



Mr. Rakesh Nath

Mr. Rakesh Nath has about 48 years of varied experience in power sector planning, He has remained chairperson of CEA and Ex-Officio Secretary to the GOI



Dr. Kirit Parekh

Professor Kirit Parikh former Member of India's Planning Commission. He has also been a member of the Economic Advisory Councils (EAC) of five Prime Ministers of India.



Mr. Sanjay Sagar

Mr. Sanjay Sagar has almost 40 Years of experience, of which the past two decades have been in the energy sector. He was Joint Managing Director & CEO of JSW Energy Ltd

Audit Committee

- ✓ Rakesh Nath (C)
- ✓ Dr. Kirit S. Parikh
- ✓ Neera Saggi
- ✓ Sanjay Sagar
- ✓ Mahesh Shrikrishna Palashikar
- ✓ Johan Bindele

Stakeholders Relationship Committee

- ✓ Sanjay Sagar (C)
- ✓ Sandeep Zanzaria
- ✓ Sushil Kumar

Asset Committee

- ✓ Sandeep Zanzaria (C)
- ✓ Neera Saggi
- ✓ Rakesh Nath
- ✓ Sushil Kumar

Corporate Social Responsibility Committee

- ✓ Dr. Kirit S Parikh (C)
- ✓ Sandeep Zanzaria
- ✓ Sushil Kumar

Nomination & Remuneration Committee

- ✓ Rakesh Nath (C)
- ✓ Dr. Kirit S. Parikh
- ✓ Neera Saggi
- ✓ Sanjay Sagar
- ✓ Mahesh Shrikrishna Palashikar

Risk Management Committee

- ✓ Neera Saggi (C)
- ✓ Sandeep Zanzaria
- ✓ Rakesh Nath
- ✓ Mahesh Shrikrishna Palashikar
- ✓ Johan Bindele

C stands for Chairman



Management Team



Mr. Sandeep Zanzaria
Managing Director & CEO



Mr. Abhishek Srivastava
Business Leader -
Grid Systems Integration



Mr. Ashok Sajja
Business Leader -
Grid Automation



Mr. Sridharan Narayanan
Business Leader -
High Voltage Systems



Mr. Raja Ram
Business Leader -
Power Transformers



Mr. Deepak Pandey
Business Leader-
Digital Solutions



Mr. Sushil Kumar
Chief Financial Officer



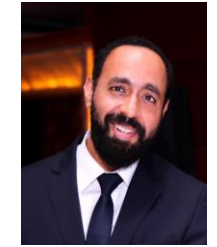
Mr. Amaresh Singh
Chief Human Resource Officer



Ms. Anupriya Garg
Company Secretary & Compliance Officer



Ms. Radhika Sankaran
General Counsel



Mr. Anshul Madan
Communications Leader



Safety Focus



Certificate of Merit from Tata Motors Ltd, Pantnagar



Certification of Appreciation from Adani for Warora Projects



National Safety Week celebrated across all Plants & Project Sites



Tree Plantation on World Environment day



Safety footprint training at Digital Office



Fire Hydrant Pump training at Hosur Plant by OEM



International Yoga Day Celebration at MPL, Dhanbad



Work at height rescue training at MSETCL, Mankapur



Onsite Safe Lifting Operation training at MPL Dhanbad site



Steps towards Zero Carbon:

Reduction of electricity consumption, water consumption, reduction of plastics use as well as reduction of office space.



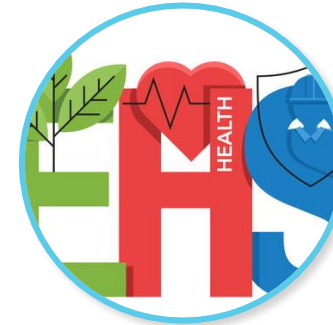
Waste Management:

- All our facilities uses 100% biodegradable plastic.
- E-wastes are being disposed off through registered E-waste vendors.
- Hazardous wastes are sent to authorized recyclers.
- Other waste generated from factories are recycled and used



GE Ethics:

- Zero Tolerance toward corruption/ bribery
- Zero Tolerance toward Code of Conduct.
- Maintenance of strong internal controls.



Strict EHS Compliance and other Parameters

- Sound EHS Framework System Established
- GE Grid Solutions' suppliers are asked to follow Grid Solutions' Supplier Sustainability Charter.
- Suppliers are audited with sustainability questions during qualification and surveillance audits.



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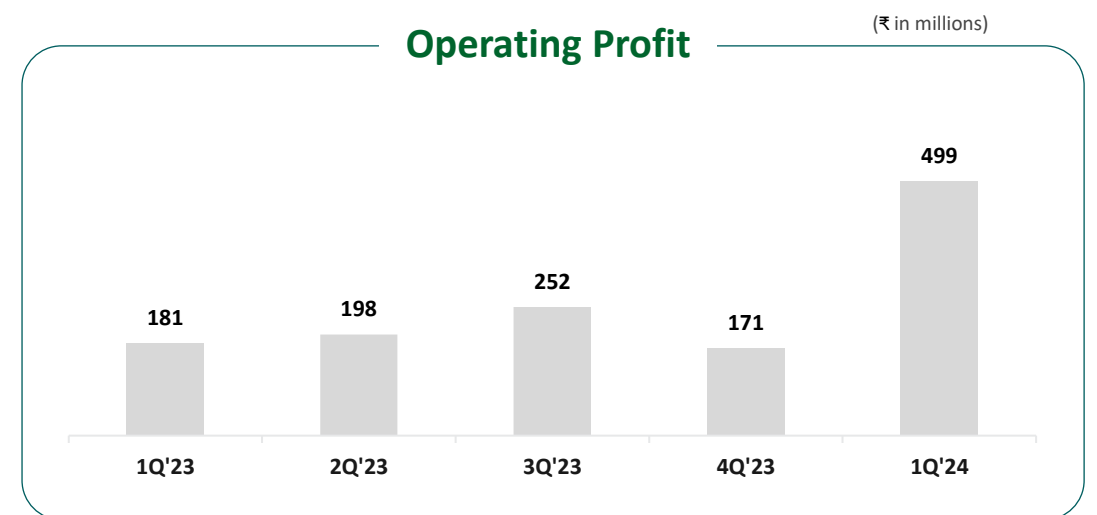
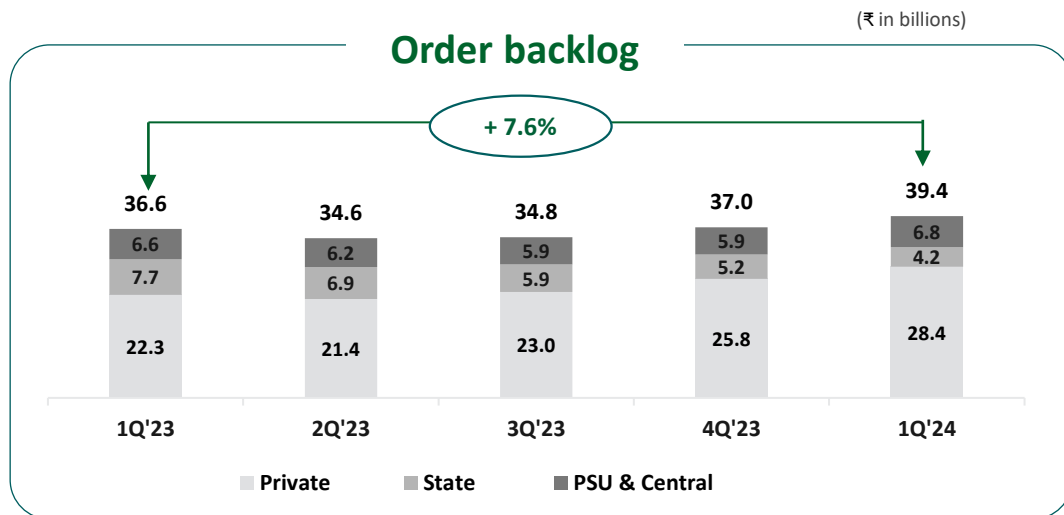
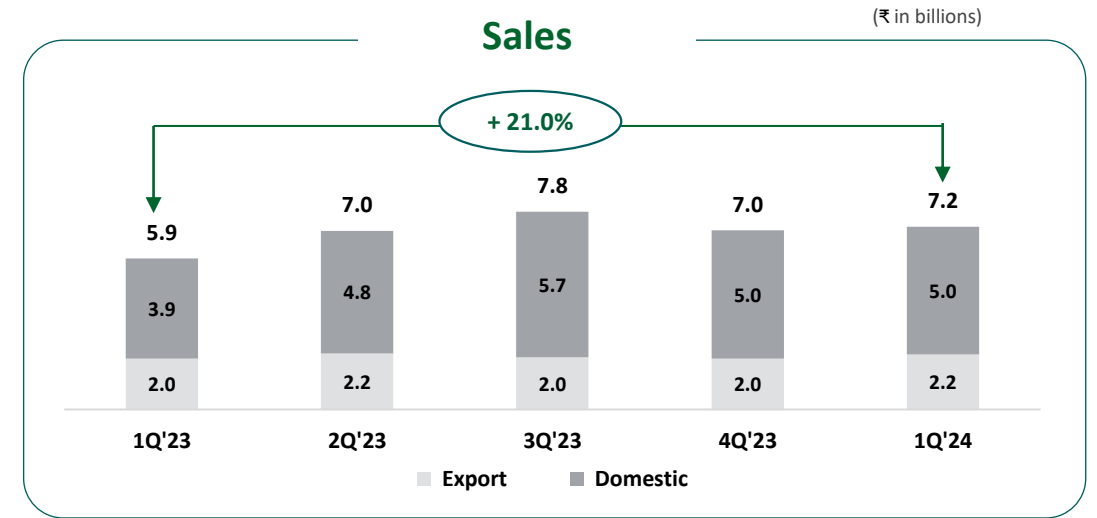
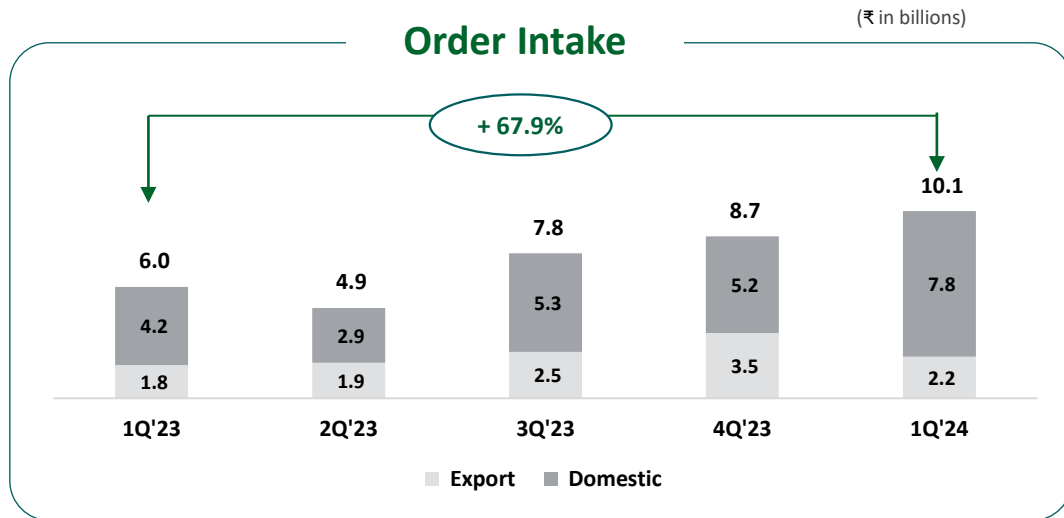
T&D Challenges/ Growth Drivers

Technology to address Market/Challenges

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THANK YOU

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