

October 8, 2024

The Secretary,
Listing Department,
BSE Limited,
1st Floor, Phiroze Jeejeebhoy Towers,
Dalal Street,
Mumbai - 400 001
Scrip Code: 543187

The Manager,
Listing Department,
National Stock Exchange of India Limited,
'Exchange Plaza', 5th Floor, Plot No. C/1, G Block,
Bandra Kurla Complex, Bandra (East),
Mumbai - 400 051
Scrip Symbol: POWERINDIA

Dear Sir / Madam,

Subject: Analysts/Investors' Presentation

Pursuant to Regulation 30 of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, we are enclosing herewith a copy of Presentation to be made during the Analyst Meet at Energy Digital World 75 (EDW75) – our flagship experiential technology event as scheduled today i.e., October 8, 2024, for the information of the Stock Exchanges.

The above information is also hosted on the website of the Company at <https://www.hitachienergy.com/in/en/investor-relations>.

Kindly take the same on your records.

Thank you,

Yours faithfully,

For Hitachi Energy India Limited

Poovanna Ammatanda
General Counsel and Company Secretary

Encl.: as above

Hitachi Energy India Limited

Registered and Corporate Office:
8th Floor, Brigade Opus, 70/401,
Kodigehalli Main Road, Bengaluru – 560 092,
Phone: 080 68473700
CIN: L31904KA2019PLC121597
www.hitachienergy.com/in



HITACHI
Inspire the Next

75 years of
Powering India

Energy & Digital World 75

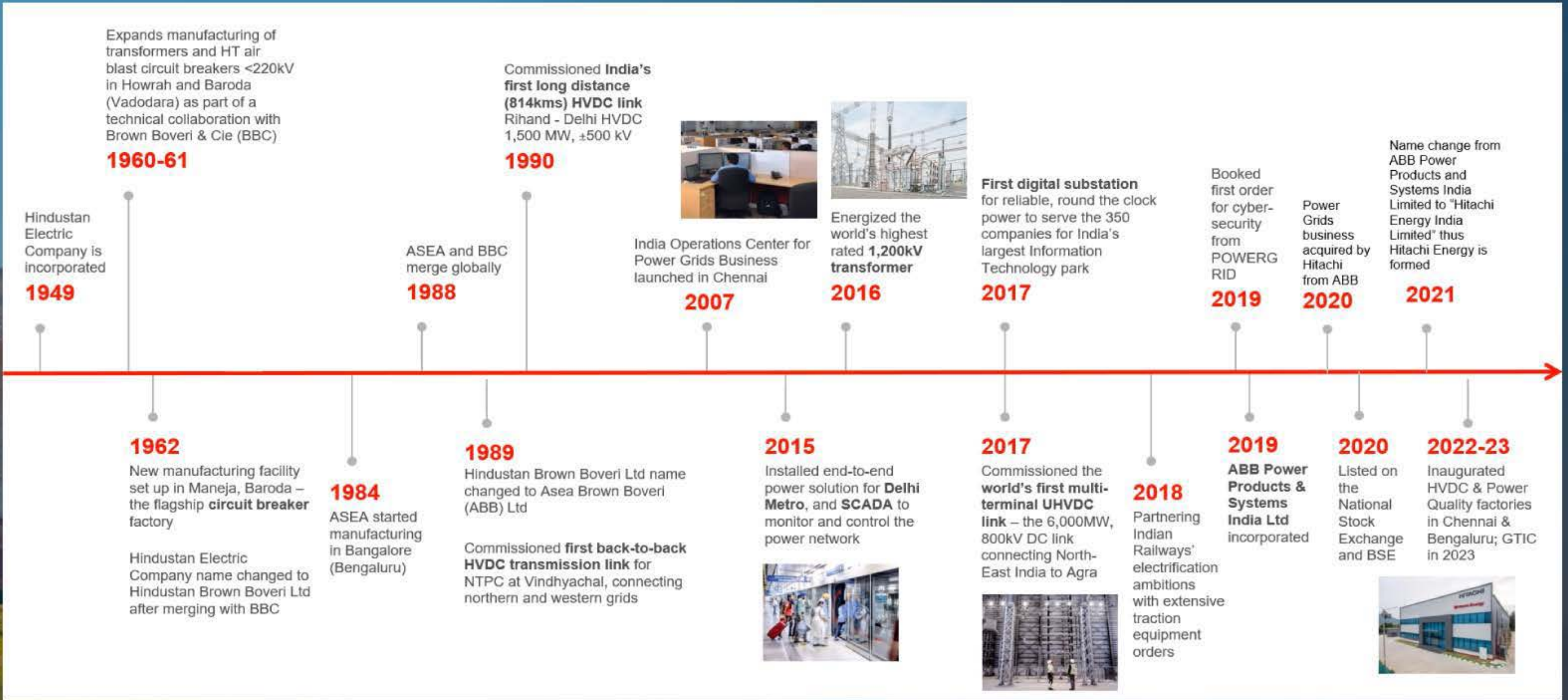
Advancing energy transition for India's net zero journey

N Venu, MD & CEO, India and South Asia

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 **Hitachi Energy**

75 years of powering in India; "Making in India" for India and the world



Hitachi Energy in India today

>2,500^ employees & 19 manufacturing units

Enabling 7* HVDC links of the nation's 15

Powering 50% of Indian Rail, 90% of metro rail

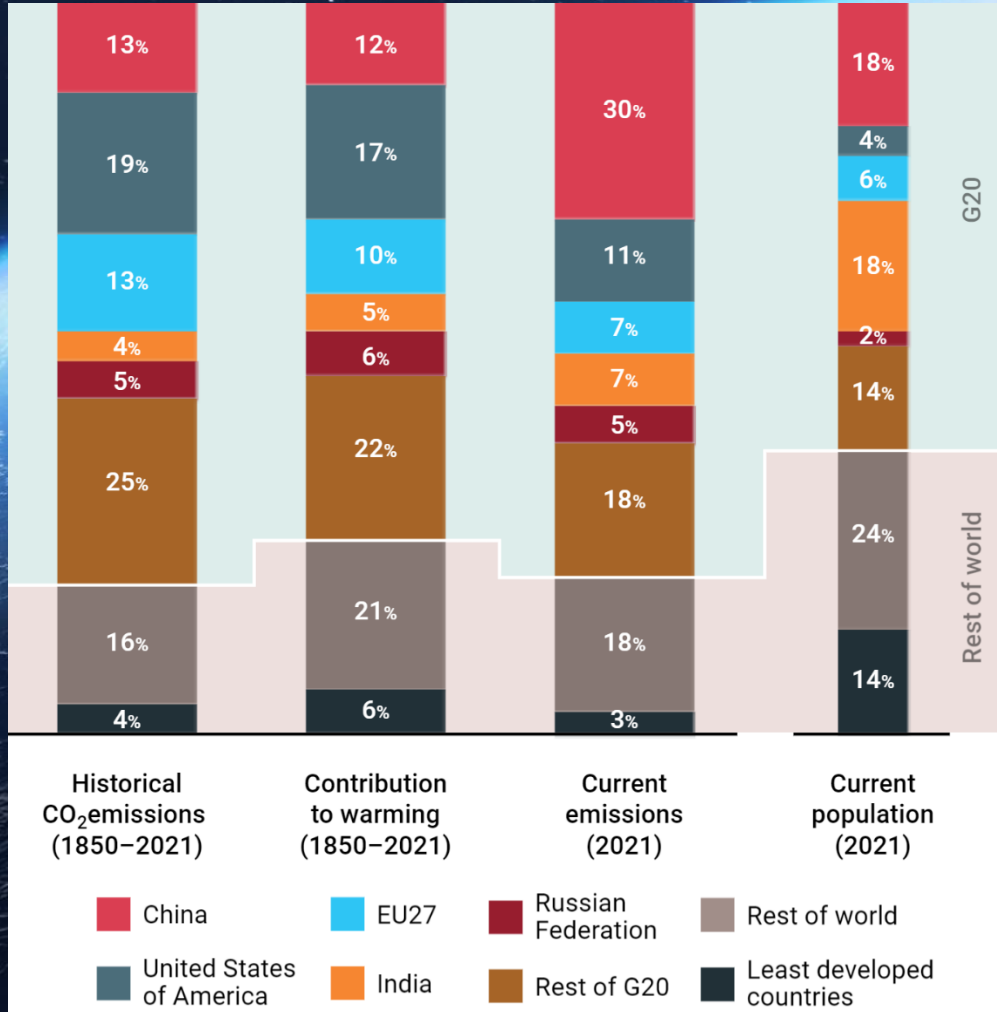
Connecting 61GW of renewable energy

25% of orders towards global energy projects

*Including Mumbai Infeed

Nations to come together to avoid tipping point

UNEP Emissions Gap Report 2023



Global energy-related CO₂ emissions grew by 1.1% in 2023 to reach a new record high of 37.4 billion tonnes

India accounts for 18% of the world population, but to date contributed 5% of emissions.

With changing weather patterns, energy emissions have risen in the past year

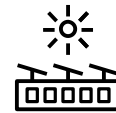
Energy Mix evolution as per India Energy Security Scenario (IESS)*

Growing Energy Demand: India's per-capita primary energy consumption will likely double from 7,017 kWh in 2022 to 12,547-13,477 kWh by 2047.

Doubling of Demand Electrification: is expected to more than double by 2047 and reach 40% from current levels of 19%. The electricity sector, which accounts for almost 40% of total greenhouse gases (GHGs), is critical for India to decarbonize.

Increase in Non-Fossil Capacity: India's installed capacity of non-fossil is expected to increase from 43.7% to 61%-65% by 2030 and 85%-90% by 2047.

National ambitions for 2030



500 GW
renewable
energy capacity



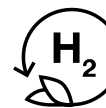
500 GW
ISTS to evacuate
renewables



30%
EV penetration



100%
rail
electrification



1 mn ton
of annual green
hydrogen production



1 bn ton
of CO₂ reduction

The renewable energy revolution is happening now

Ambition of 500GW by 2030

Annual installation rate of around 50GW is imperative

1 GW offshore wind energy projects in Gujarat & Tamil Nadu approved by Union Cabinet

Moody's Ratings estimate India to spend up to 385 BUSD (3.2 lac crore) to meet renewable energy target

India must accelerate its efforts, requiring **>2.5X** the installation compared to the previous fiscal year (18 GW)

Hitachi Energy addressable market expected to grow **~2.5X** as renewable addition ramp up

National Electricity Plan 2032 lays clear path to improve India's power and transmission infrastructure and support renewable integration

INR 9.15 lakh cr to be invested

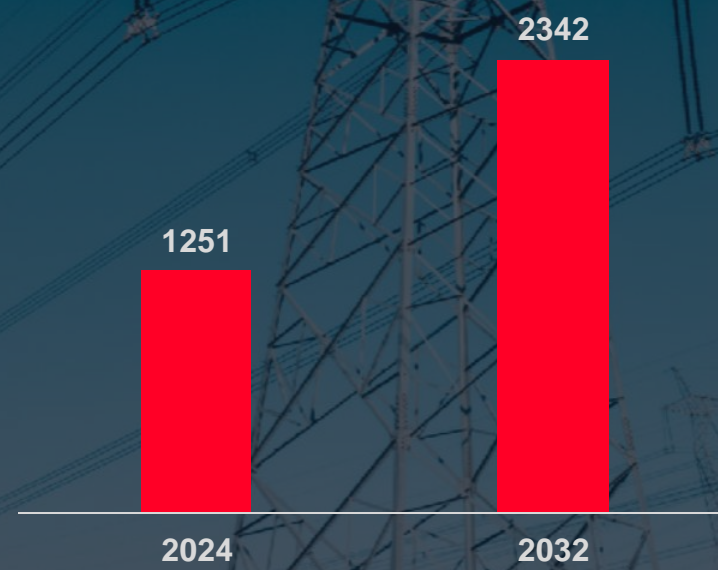
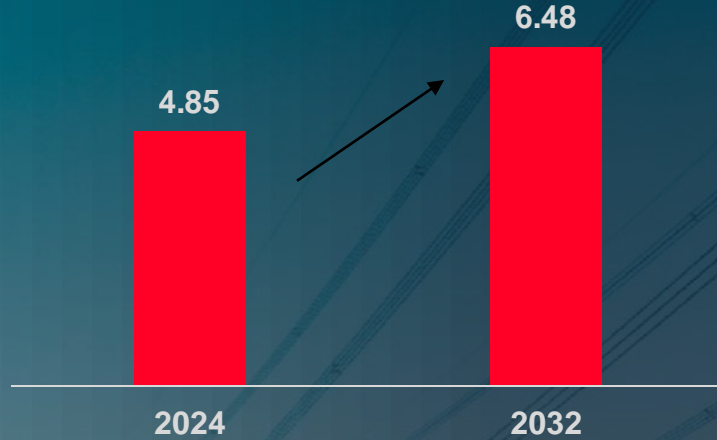
~ 2x growth in transformation

Other key announcements

1.3x growth in transmission line (lakh ckm)

Transformation capacity growth (GVA)

- Nine HVDC transmission systems with aggregate transfer capacity of 33.25 GW will be added by 2032 – equal to 33.5 GW currently in operation

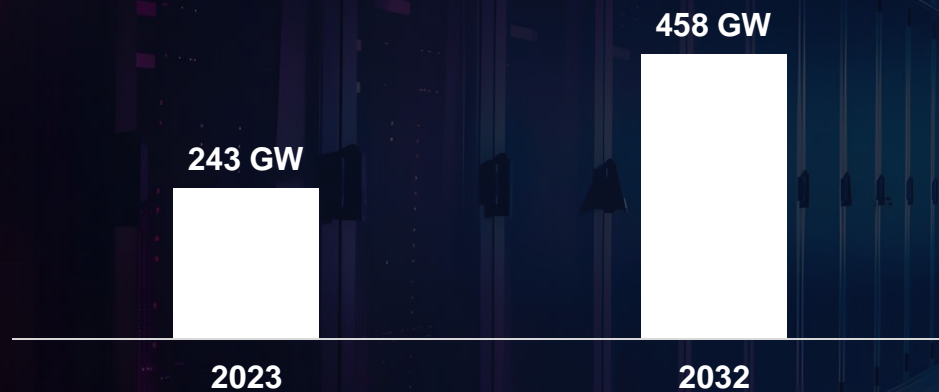


- Plan to add 39 GW of Pumped Storage Project by 2032 from current ~5 GW
- New Central Financial Assistance (CFA) scheme of INR 4,136 Cr to develop 15GW hydro potential in NE states.

Inter-regional transfer (ISTS) capacity will increase from present 119 GW to 168 GW by 2032

Hitachi Energy is well positioned to cater the coming growth in power & infra space with its investments in CAPEX and people

Peak power demand expected to nearly double by 2032



Datacenter and Transport to drive power demand growth



India has a potential for 5X data center capacity expansion to fuel digital transformation and the country requires an additional 1.7-3.6 GW data center capacity

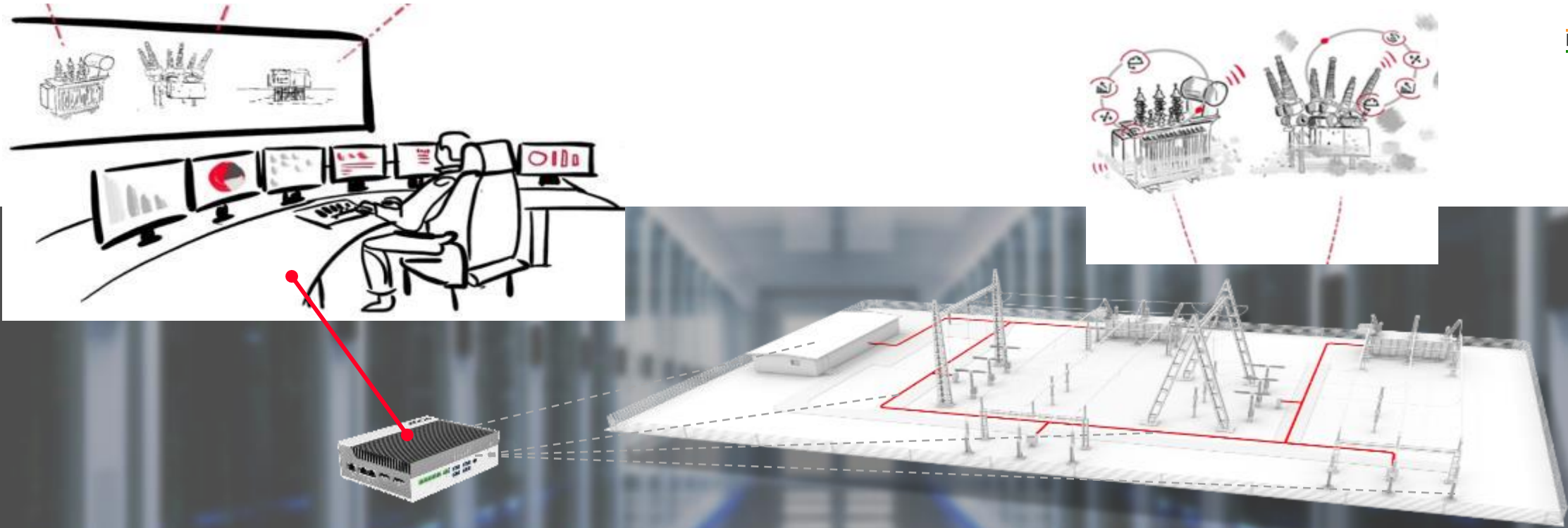


Electric vehicle (EV) market penetration estimate for India target of 30% by 2030
100k EV Chargers needed by 2030



National Rail Plan 2030 – 4500 Vande Bharat Trains by 2047
Investments in High & Semi – High Speed Rail and Metro

Visibility from the asset to the control room, across the entire life cycle



 **Plan**

 **Build**

 **Operate**

 **Maintain**

The energy transition needs **technologies,** **services** **and partnerships**

Technology implementation

Business models

Policies and regulatory framework

Demonstrators and pilots

Research

Talents and investments

Digitalized Classic Services

Advanced Services

Servitized Solutions



**Chennai HVDC factory –
supplying to Mumbai city-
infeed and Marinus link in
Australia**



**Greenfield Power Quality
factory in Bengaluru -
Doubling manufacturing
capacity**

Direct exports & EPCs

Global feeder factories

Via global Hitachi Energy

25% of overall orders

A photograph of a modern, multi-story industrial building with large glass windows. The building features the Hitachi Energy logo on its facade. The sky is clear and blue.

Hitachi Energy India has invested >INR 350crore since 2020, including:

- Power quality factory in Bangalore
- HVDC and PQ factory in Chennai
- GIS feeder factory in Savli
- Dry-bushing factory in Vadodara

Hitachi Energy India Limited plans to invest ~INR 2,000 crores over the next four to five years to add capacities of

- Large and Small Power Transformers
- Dry and Traction Transformers
- HVDC & components
- Network control solutions offering

Along with development & manufacturing of localised Grid eXpand™ and Grid eMotion®





Immersive showcase

1,000

sqm of exhibition

40

portfolio exhibits in 25 technology areas

5

products for the first time in India



Technical conferences

60

global technology experts & innovators

27

technical deep dives along three tracks

6

policy and thought leadership
panel discussions



People in energy

2,000

customers, policy makers, suppliers,
academia, think tanks, regulators, diplomats

30

nationalities

300

members of academia

Advancing energy transition for India's net-zero journey



Grid-enSure™ is a fully integrated portfolio that comprises Hitachi Energy's top end solutions, present and future, based on Power Electronics and Advanced Control Systems



SAM600 3.0: One-device merging unit and switchgear control unit

Relion REF650 delivers advanced protection and control for power distribution applications



75 years of
Powering India

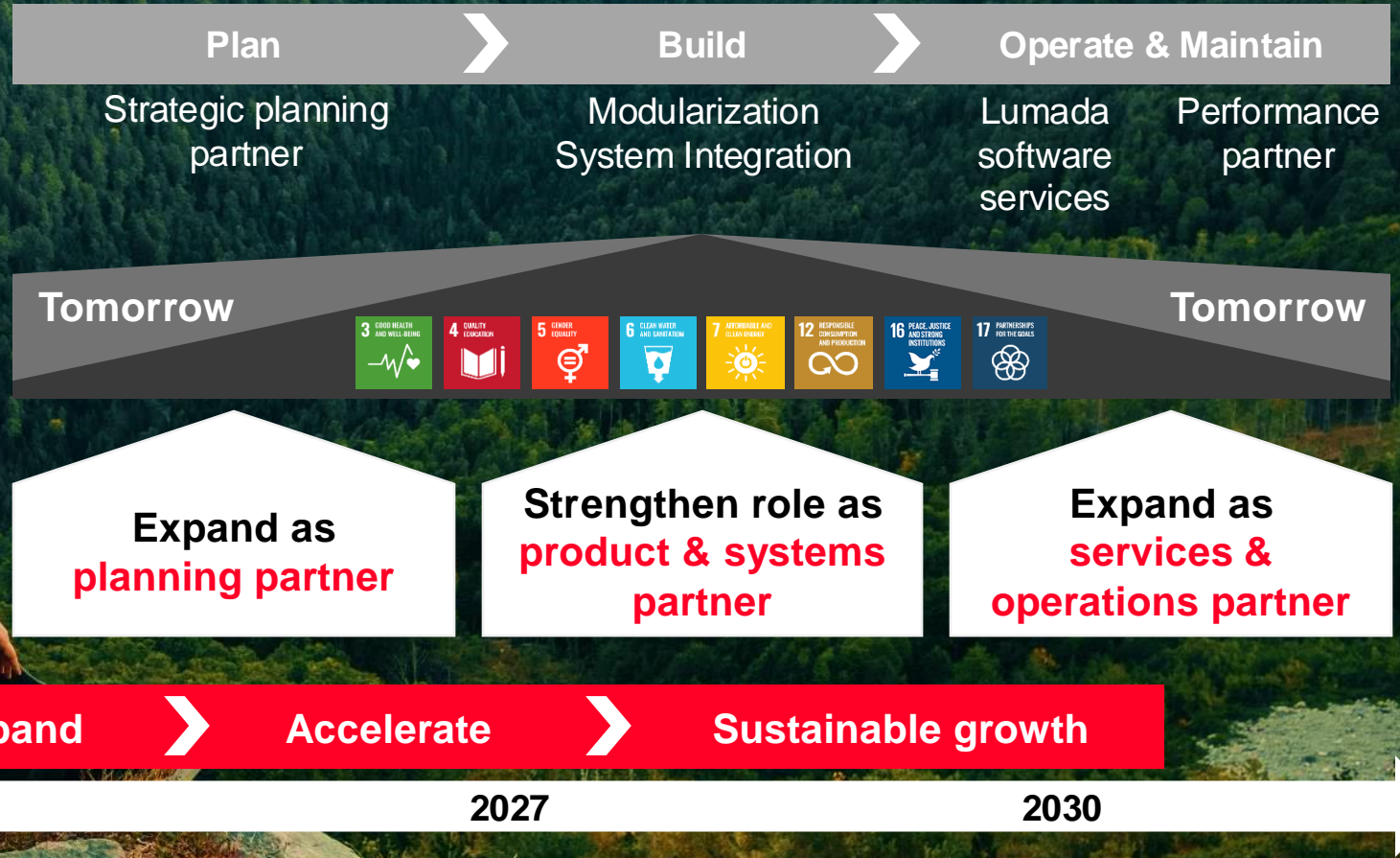
EconIQ: World's first SF6 free 420-kilovolt gas-insulated switchgear system

Hitachi Energy 2030: Purpose-driven growth

Continuously strengthening our power grids core business

Doubling up on Digital and Services and expanding at the edge of the energy system

Innovation, Synergies, Partnerships and M&A to accelerate growth



Hitachi Energy 2030 - our commitment to advancing a sustainable energy future for all, delivering social, environmental and economic value, aligned with Hitachi's vision and goals



HITACHI
Inspire the Next

75 years of
Powering India

Energy and Digital World (EDW75)

Oct 7-8, Taj Palace, New Delhi

#75yrsPoweringIndia #EDW75

 **Hitachi Energy**



HITACHI
Inspire the Next



Evolving energy landscape and technologies for tomorrow

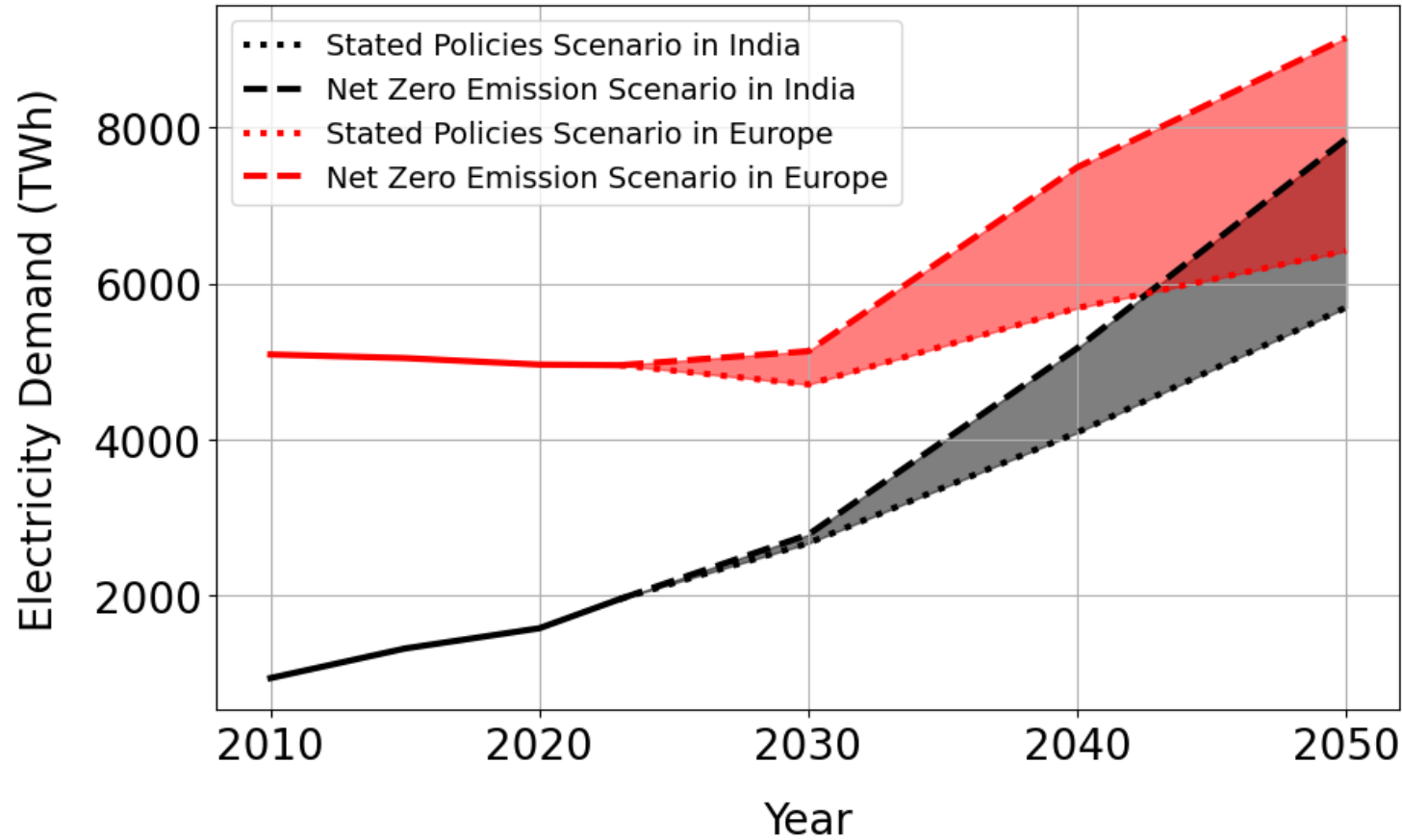
Gerhard Salge, CTO, Hitachi Energy

2024-10-08

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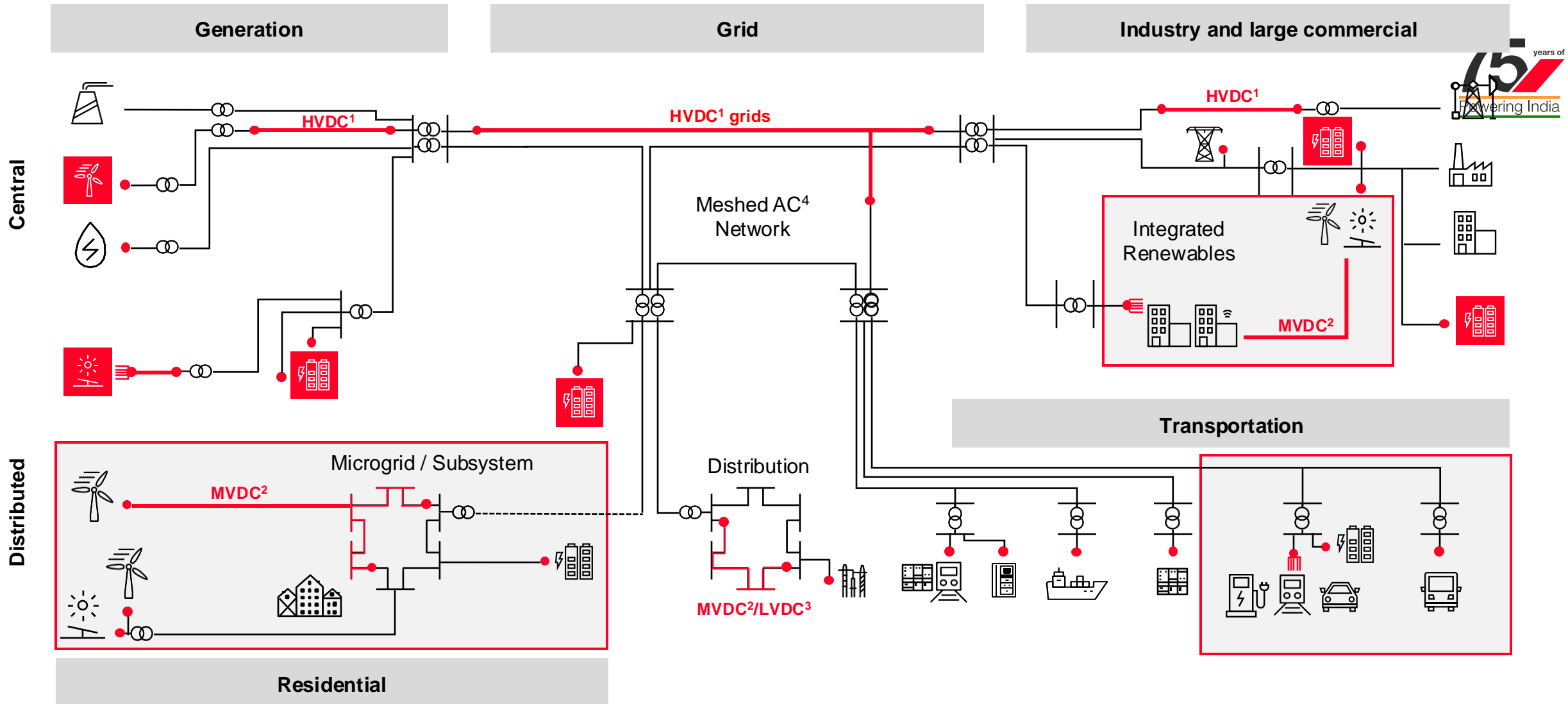


Electrification in India and globally will be growing like never before

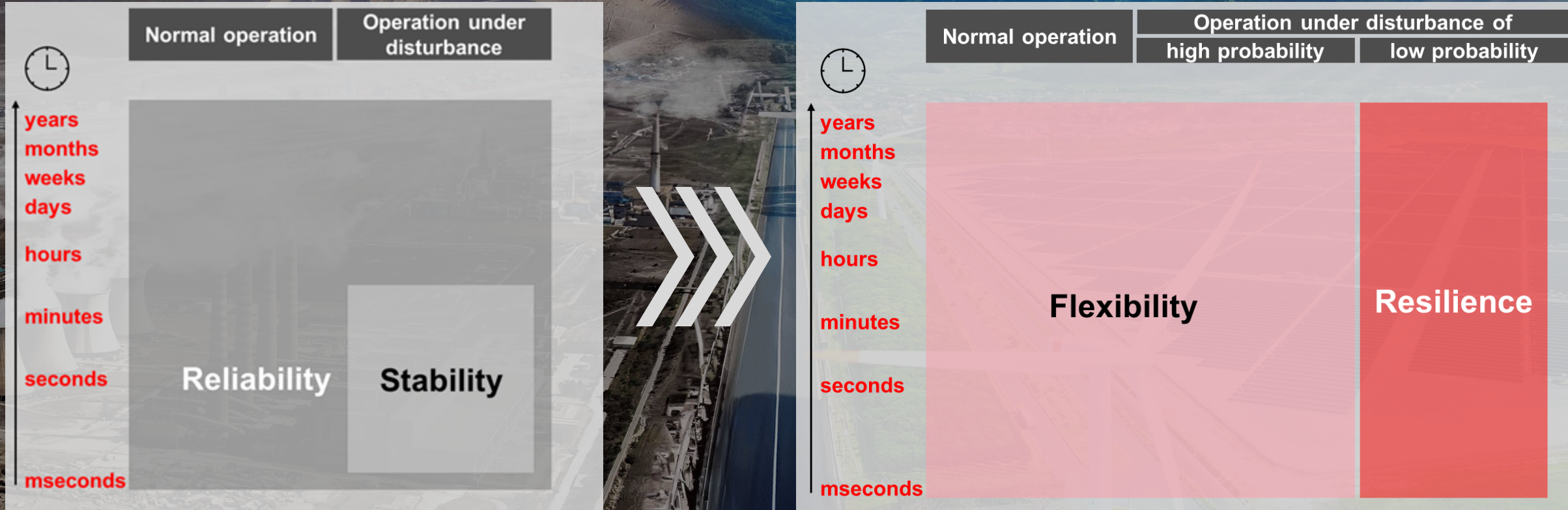


Economic growth and carbon emission reduction are key drivers of electrification in India

The Power System Evolution – Future Power Systems



Transitioning Power System landscape

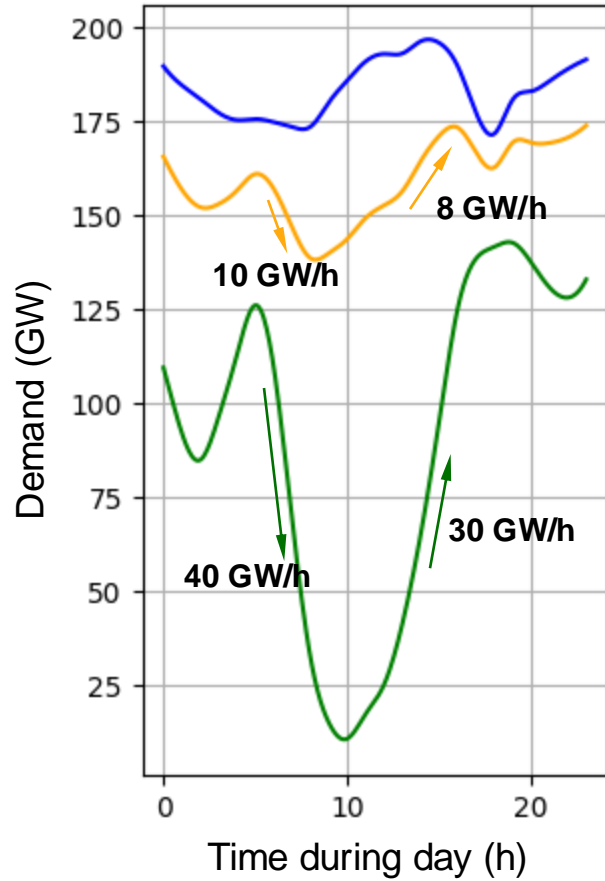


While reliability and stability remain foundational principles of Power System operation, the evolving requirements have necessitated a broader focus that includes flexibility and resilience

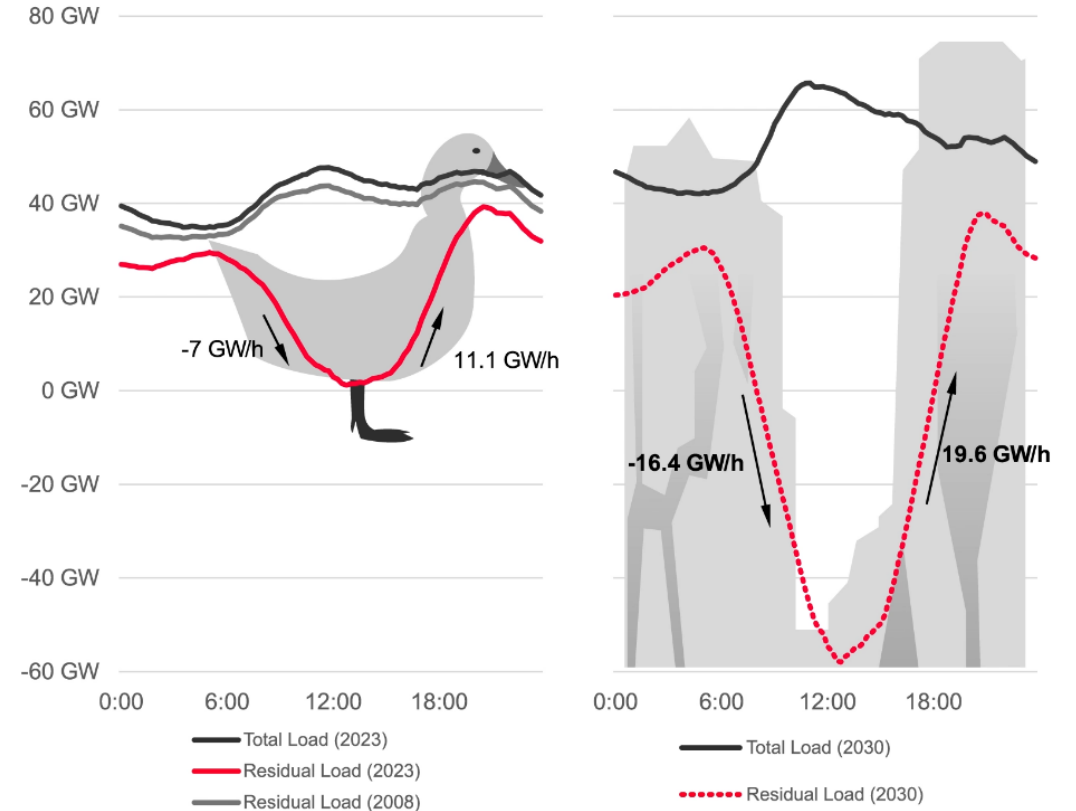
Residual demand curves for India and Germany towards 2030



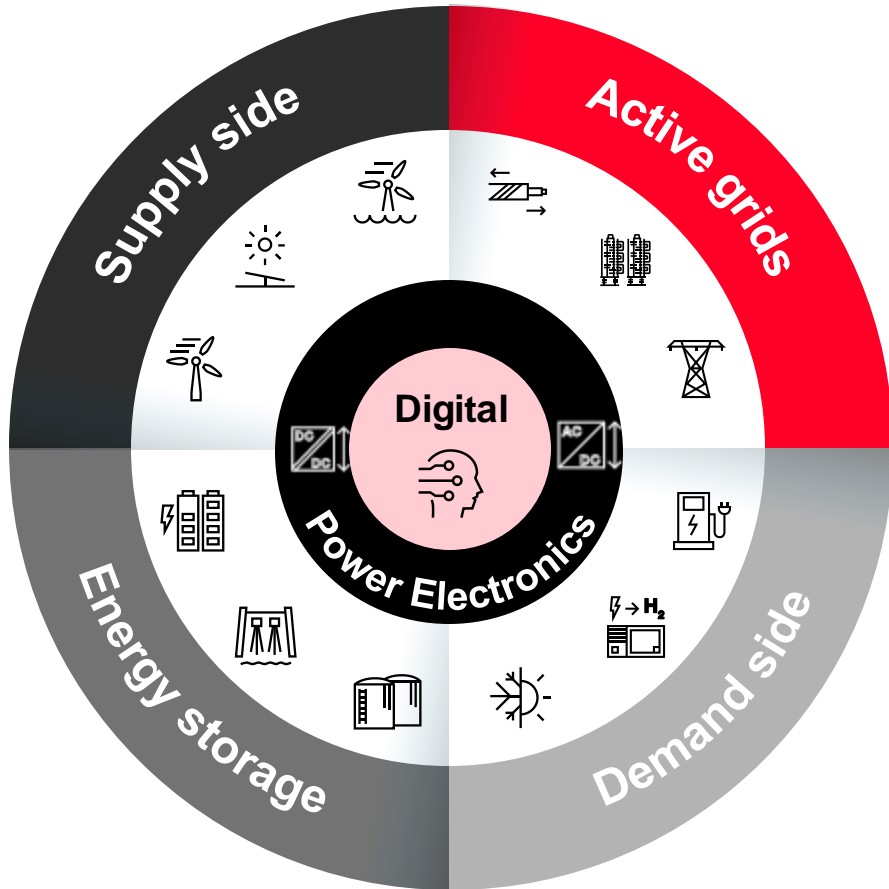
India 2030: Solar 300GW, Wind 150GW



Evolution of Germany's residual load profile



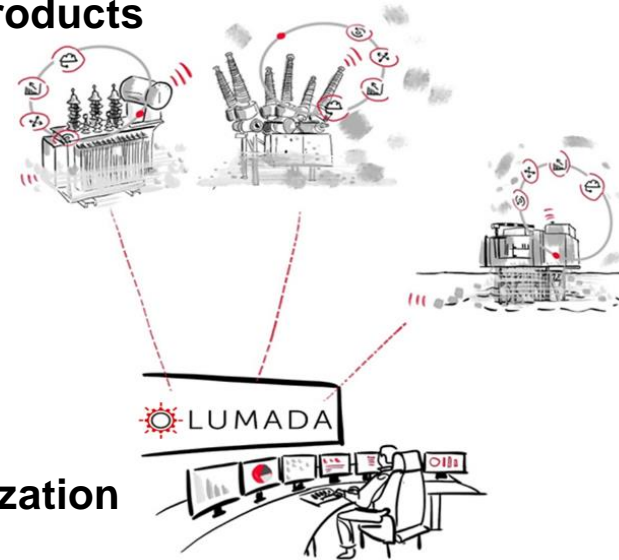
— Demand (2023) — Residual demand (2023) — Projected residual demand (2030)



Fundamental technology areas for the Power System evolution

Powering India

Sustainable Products & Solutions



Power Electronics

Digitalization

Flexibility levers need to be balanced for most effective power system utilization

Grid-enSure™: A future-proof solution available today

Grid-enSure™ is a fully integrated portfolio that comprises Hitachi Energy's top end solutions based on Power Electronics and advanced Control systems. Designed to enhance the flexibility, resilience and stability of the grid



Advisory services

Extensive grid modernization consulting expertise

Semiconductors

- +20% Current with same footprint
- Highest reliability over the lifetime of >20 years

(Enhanced) STATCOM

- Voltage control
- 2GWs Additional inertia – frequency stability

HVDC

- Grid forming control
- Freq. and AC voltage control
- Ultra-compact

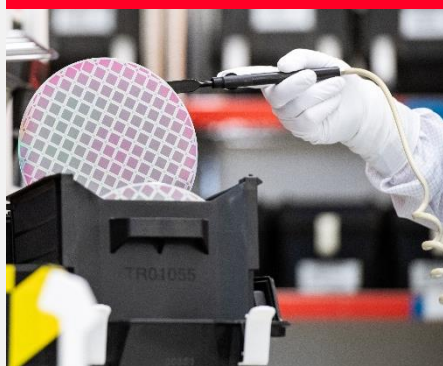
Energy Storage

- Boost the integration of Renewables
- Fast frequency and primary freq. support

Urban area powered by 100% wind & solar



New generation semiconductors



TransnetBW (Germany)

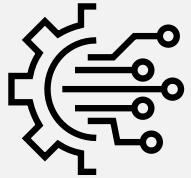


Mumbai city infeed (India)



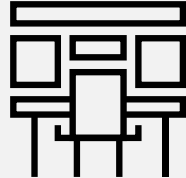
Waratah Super Battery (Australia)





Step 1
Make it digital

From analog to digital as critical foundation



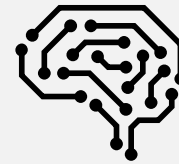
Step 2
Run the grid in real-time

Future-proof network management for reliability and flexibility



Step 3
Turn data into insights

Advanced decision-making requires advanced applications



Step 4
Drive actions with data

Connected assets and operations enable the right tool for the right job at the right time

We can meet any customer's requirement on their digital transformation journey

“
Leading
digitalization
solutions
from edge to
enterprise

Digital transformation
& integration services

GlobalLogic®
A Hitachi Group Company

Hitachi Digital Services

03
Software systems



Energy Trading & Planning



Asset Management



Network Control Systems

02
Connectivity



Mission Critical Networking



Industrial IoT

01
Digital in the field



Automation & Protection



Connected Products



Embedded Control

Sustainable products and solutions deliver total life-cycle optimization

Products

Eco-efficient
Circuit Breaker
(GIS, DTB & LTB)



Transformers with
enhanced energy
efficiency, safety,
and biodegradable
fluids



HVDC connection
with sustainability-
optimized design



Services



**Consulting
services**



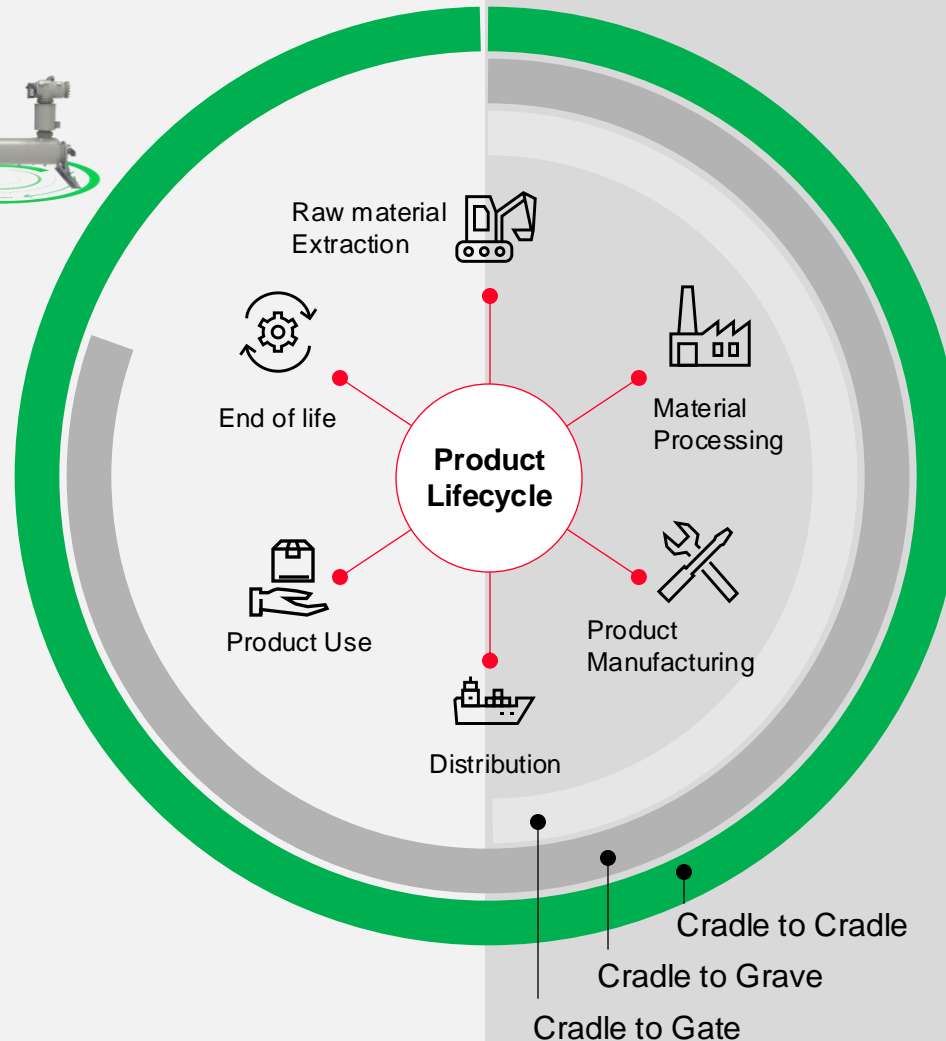
**EconIQ™
retrofill
services**



**Transformer
lifetime
extension
service**



**Energy Portfolio
Management**



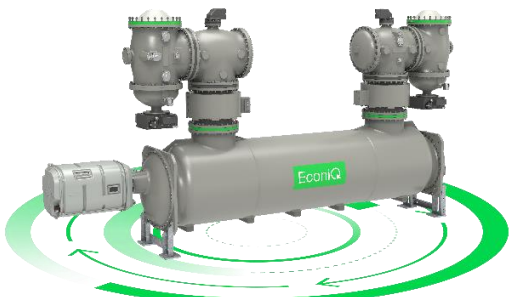
Fast adoption of SF₆-free equipment – Becoming the new norm

Cigre 2022: World's first fully type-tested SF₆-free 420 kV circuit-breaker enabling our customers to transition to net zero

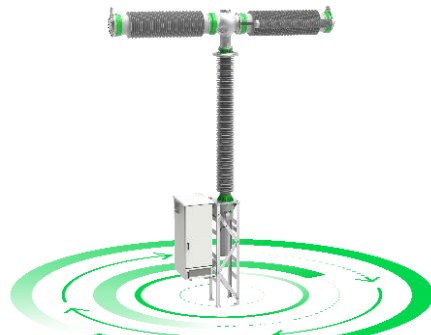
300 breakers ordered



Cigre 2024: EconIQ solutions demonstrate our technology's reliability and scalability

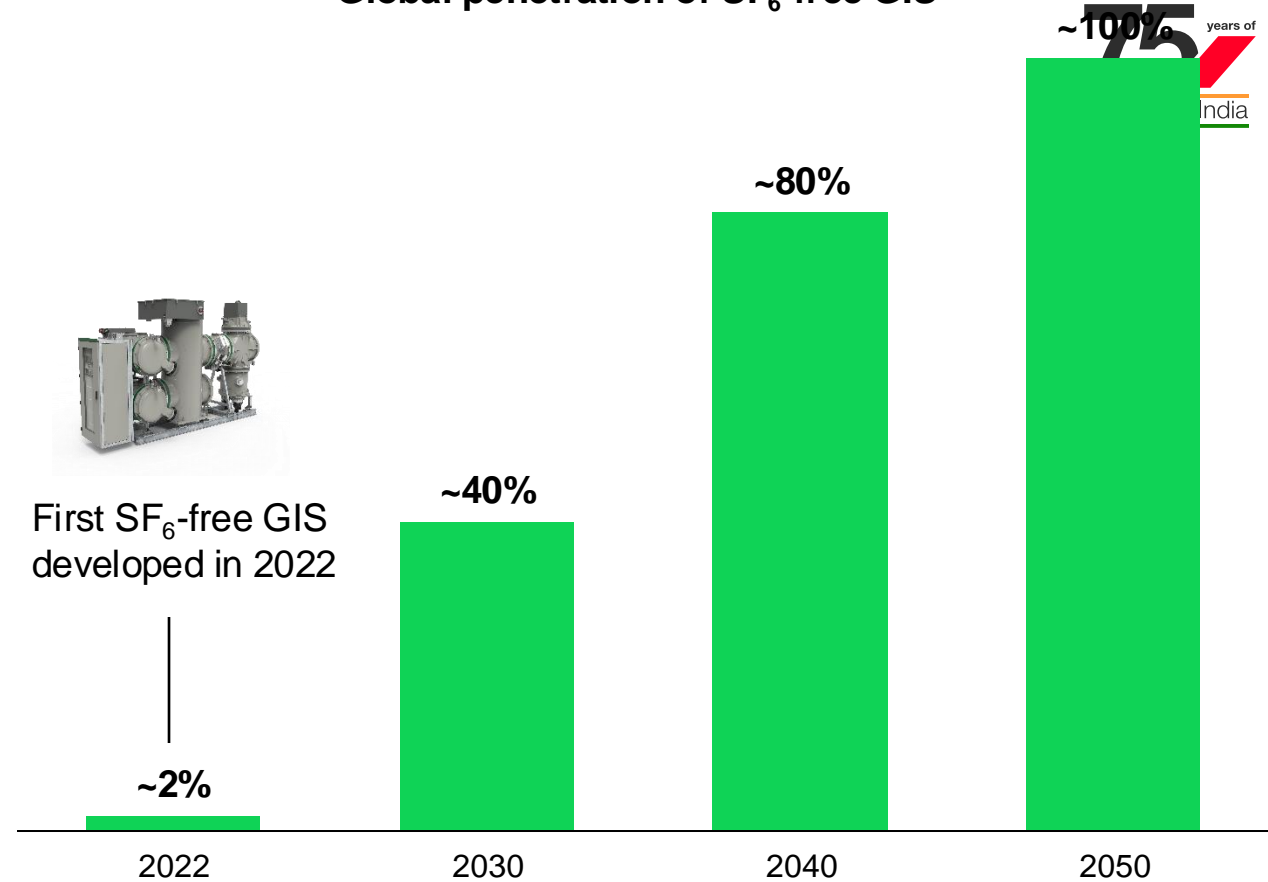


EconIQ 550 kV circuit breaker



EconIQ 420 kV live tank circuit breaker

Global penetration of SF₆-free GIS*



We have transformed the competitive landscape by shaping an SF₆-free future!

1. **Global Power System of 2050** – much bigger and more complex
2. **Indian Power System** is evolving in the same way as all other large grids worldwide – much more flexibility required
3. **Hitachi Energy India has the technology, the global experience and the competences** to enable a future fit Transmission and Distribution system – at scale!
4. **Hitachi Energy India is crucial for the global Hitachi Energy business**, across technology development, engineering, manufacturing and many further contributions





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