

Sustainably caring for a century of technology leadership, through the digital transformation

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01

Global Technology leader in T&D

The world's largest transmission & distribution installed base

02

Net-zero transition magnifies electricity as a vector Installed Base set to grow 25%+ by next decade

03

Service of tomorrow looks very different





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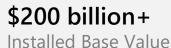
Service of tomorrow looks very different







Deep responsibility for assets developed over century of T&D leadership



12,000+ Customers 65+ Local Service Centers

1,500+ Fieldengineers 160+ **HVDC** links

100,000+ Power transformers

300,000+ High-voltage assets







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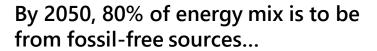
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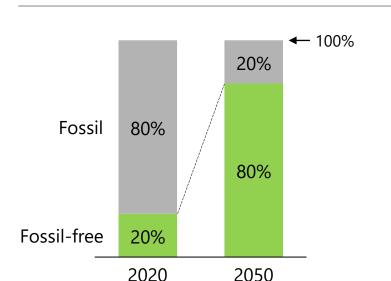




To power a net-zero future, the Grid to transmit 3x electricity capacity







...as electricity demand increases dramatically



Industries growing 2x to >20 PWh



Buildings growing \sim 50% to >15 PWh



Transportation growing >30x to ~10 PWh

(PWh: 1 x 10¹⁵ Wh)

Power System in 2050 must transfer ~3x the electrical energy

- without compromising on reliability and affordability
- with less predictable generation and consumption patterns

Variable renewable capacity must grow >15x from 2020 to 2050

Electric car sales are expected to increase 18x from 2020 to 2030

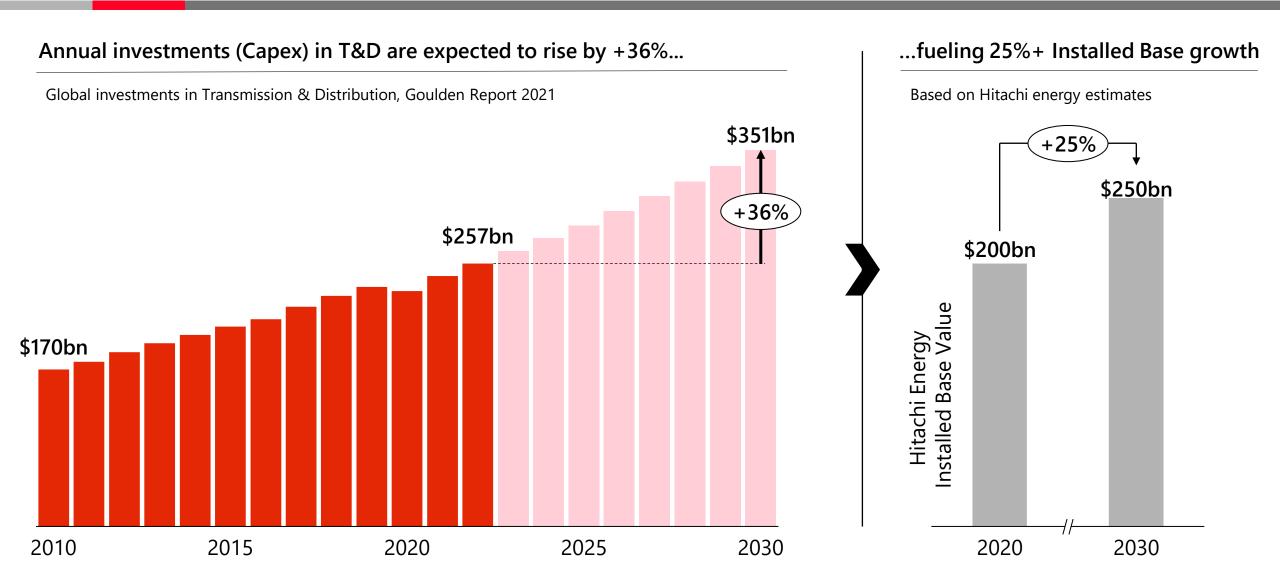
Total T&D installed capacity will 2x by 2050

Source: Hitachi Energy studies and IEA Net Zero 2050. Reference value: Japan electricity consumption 2021 approx.1 PWh

2020









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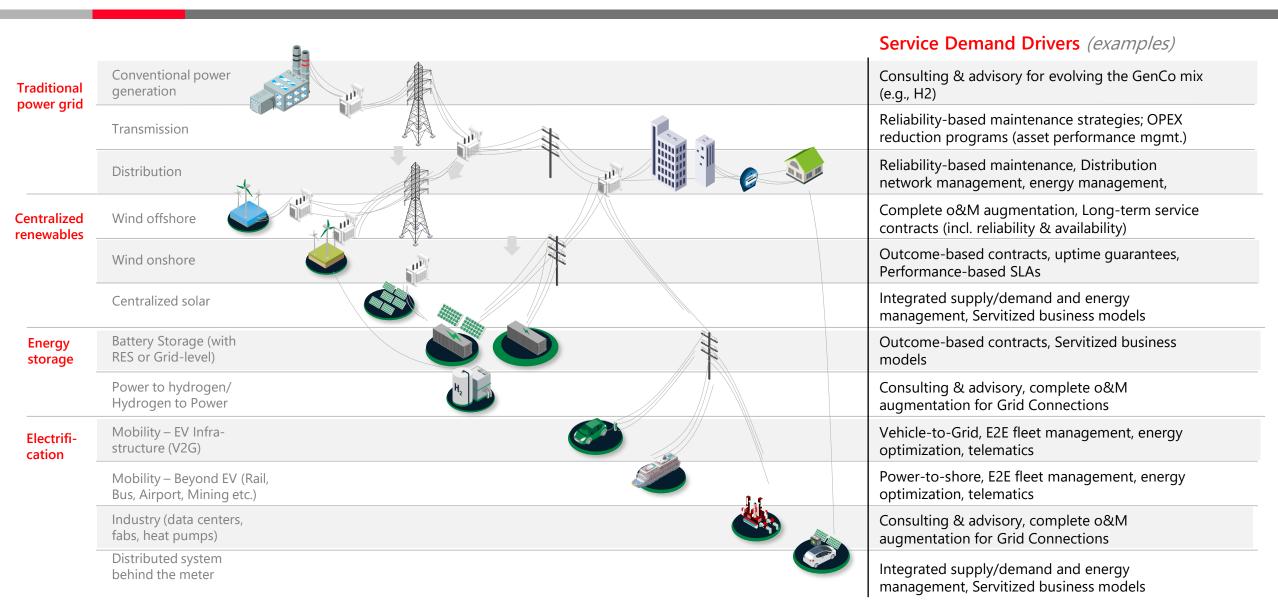
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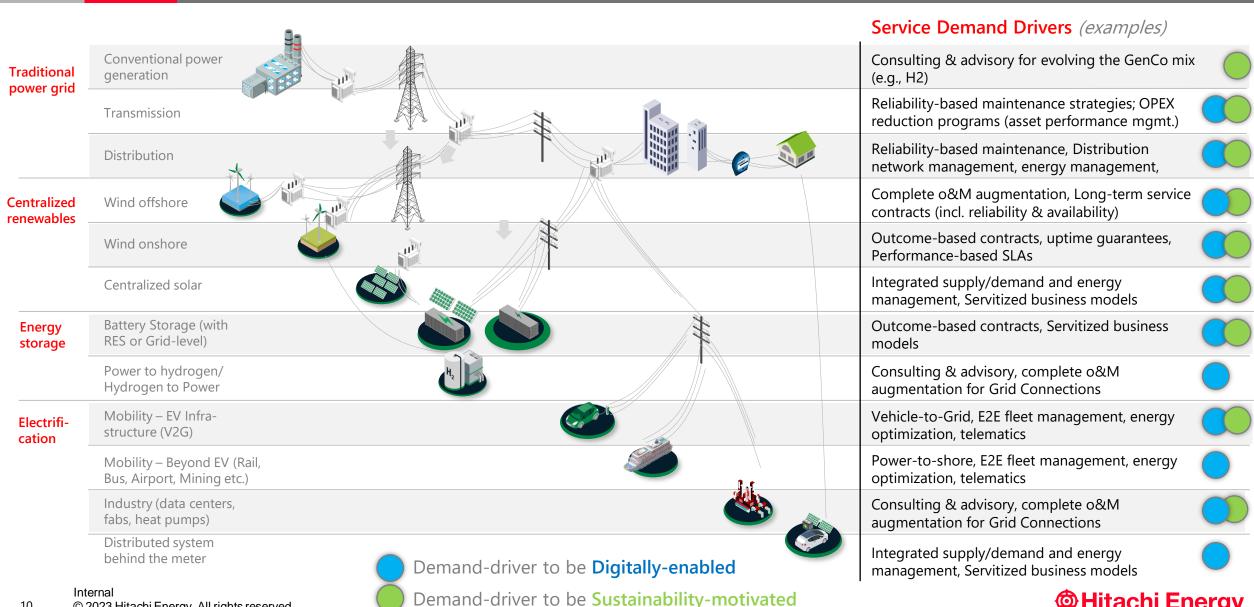
An evolving energy value-chain, offers new Service opportunities





Service opportunities driven by Digital & Sustainability value-pillars





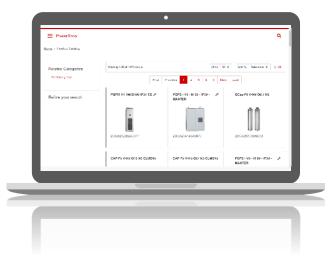


Build on foundational elements to unlock Digital Transformation



Digitize Service Foundation

Future transactional experience

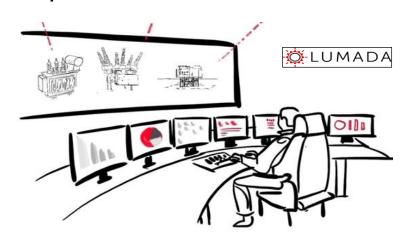


Digitized operations & enablers

- Spares (e.g., self-service, eCommerce),
- Field operations (e.g,. Al-driven dispatch)
- Remote support (e.g., AR-based)

Digitize Asset Monitoring

Implement connected-asset solutions

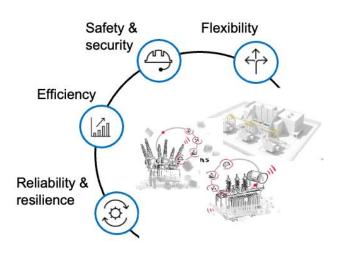


Overlay field-data with advanced analytics

- (cyber)Secure communication for as-is location, performance, condition, risk, etc.
- Optimize, extend or upgrade operational life

Digitally-enabled XaaS Delivery

Enabling Outcome-as-a-Service



Orchestrate delivery ecosystems

- Multiply connected-assets & insight generation in domain-expertise, with cross-industry partnerships
- Toward prescriptive-solutions (Al-driven)

Parallel efforts across themes: tie-in learnings from future-contract models, into foundational imperatives



Building a Service offering across Sustainability value-pillar



EconiQ & Sustainability-centered Service offerings to care for an Installed Base of the past, present & future





Services to accelerate the renewable energy transition

- Grid studies, planning & optimization
- Decarbonization at Grid-Edge (e.g., BESS)
- Service Portfolio for Renewable, eMobility



02

Sustainability-driven
Services for the
Installed Base



Services for a Circular Economy

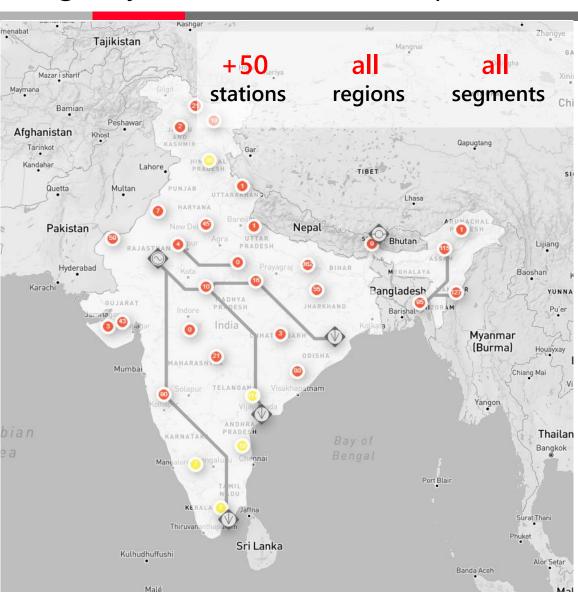
- EconiQ[™] Retrofill for SF6-free alternatives
- EconiQ[™] Lifecycle assessment & Upgrade
- EcoSpaceTM Implementation (CO2 calc.)
- TxpertTM powered Remote Services
- RelCareTM Maintenance Management

- Recycling (products & components)
- Repurposing & relocation
- Resale & reuse platform



Digitally-enabled SLAs to help customer meet Sustainability goals





RelCareTM improves sustainability by implementing safeguarding practices that protect people, the environment, and economies



Summary & Takeaway



"

Hitachi Energy Service is a trusted lifecycle partner.

Building on a century of experience and expertise, our team delivers todays and tomorrow's service solutions to support a sustainable energy transition for our partners and customers.



HITACHI Inspire the Next