

Digitalization to Support Energy Transition : Hitachi Energy

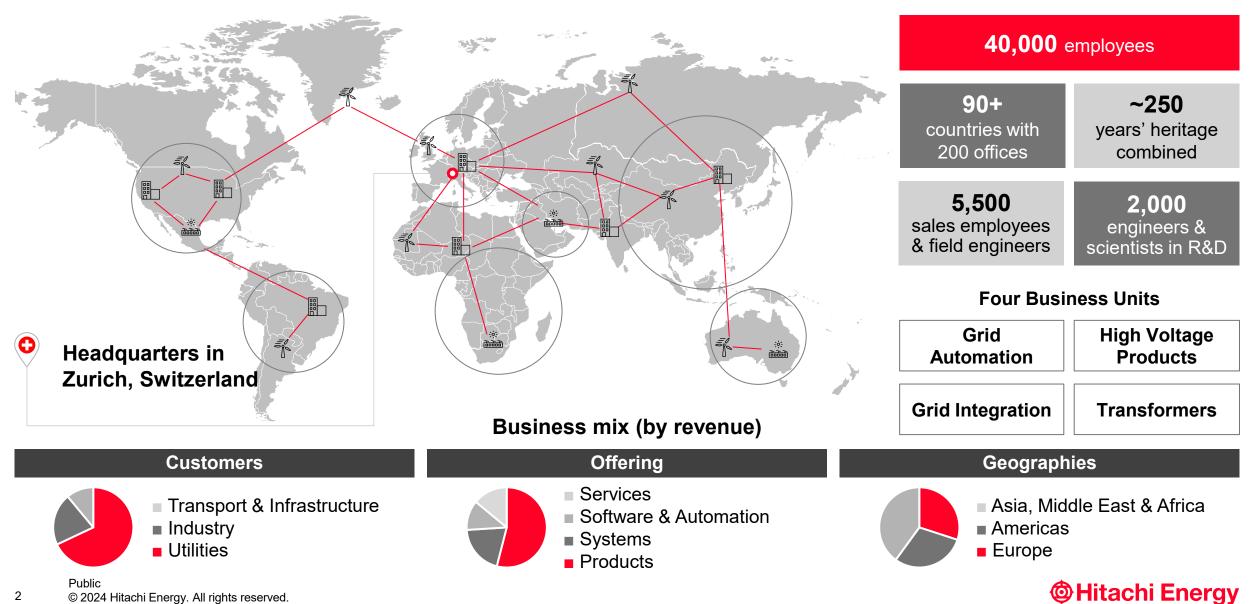
Tanbhir Hoq, Research Team Manager, Hitachi Energy Research



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About Hitachi Energy

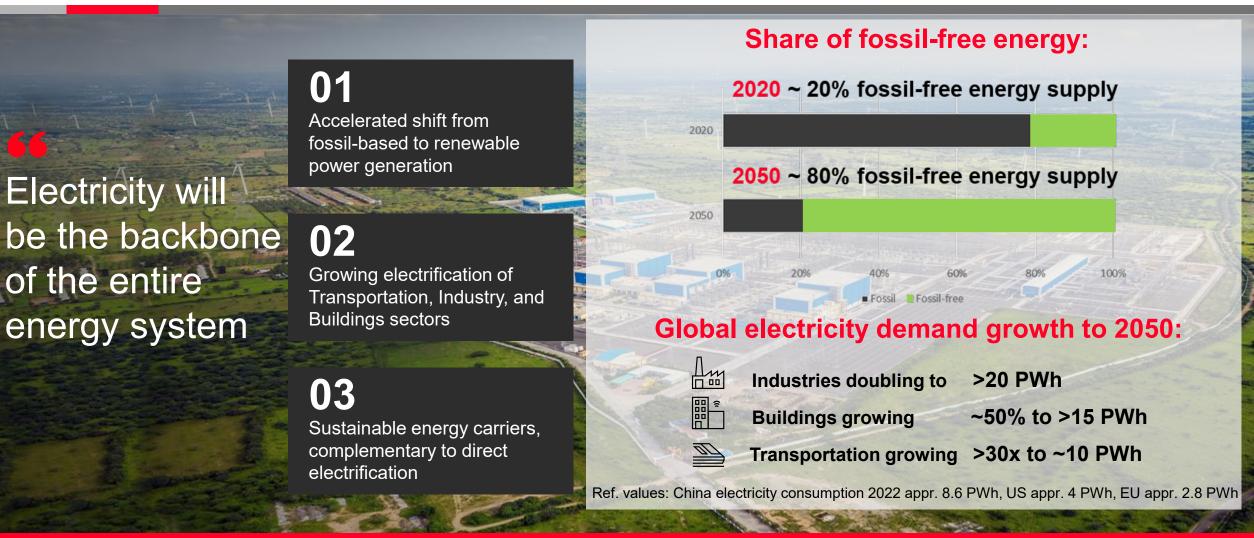
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Energy system 2050: Toward a carbon-neutral energy system





In the global power system of 2050, we need around four times the power generation capacity and we will need to transfer up to three times as much electrical energy compared to 2020.

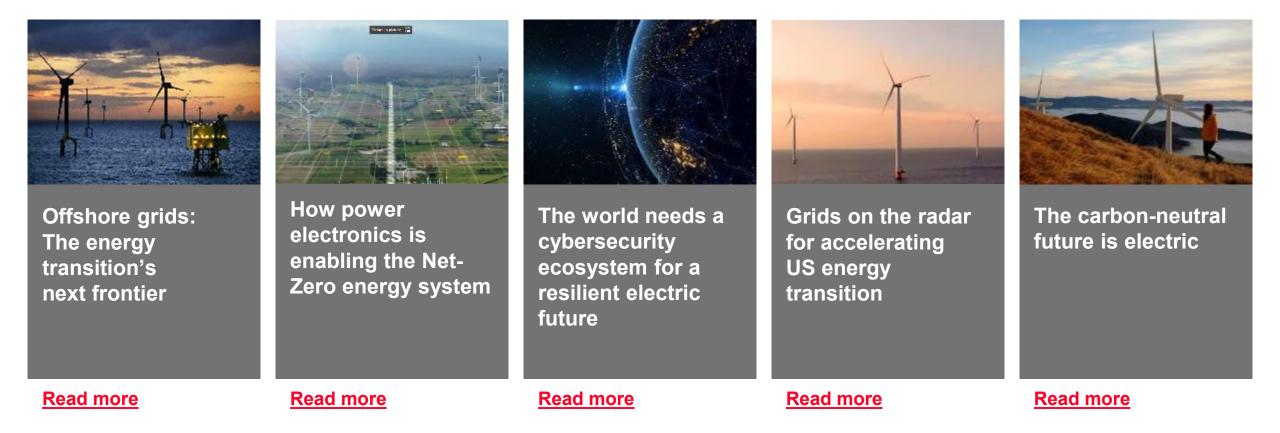
Source: Estimations based on Hitachi Energy analysis of recently published IEA Net Zero by 2050, 2021-2022 Energy Outlook studies such as IEA, BNEF, DNV and IRENA.

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Perspectives



Perspectives is Hitachi Energy's thought leadership publication that includes a collection of insights and reflections from leading voices in the energy arena on topics that matter now.



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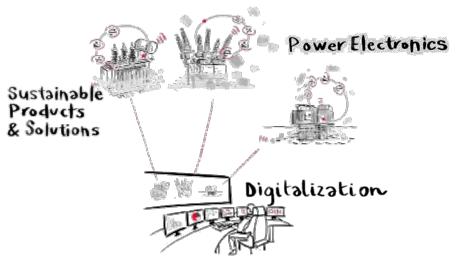
Fundamental technology areas for the power system evolution





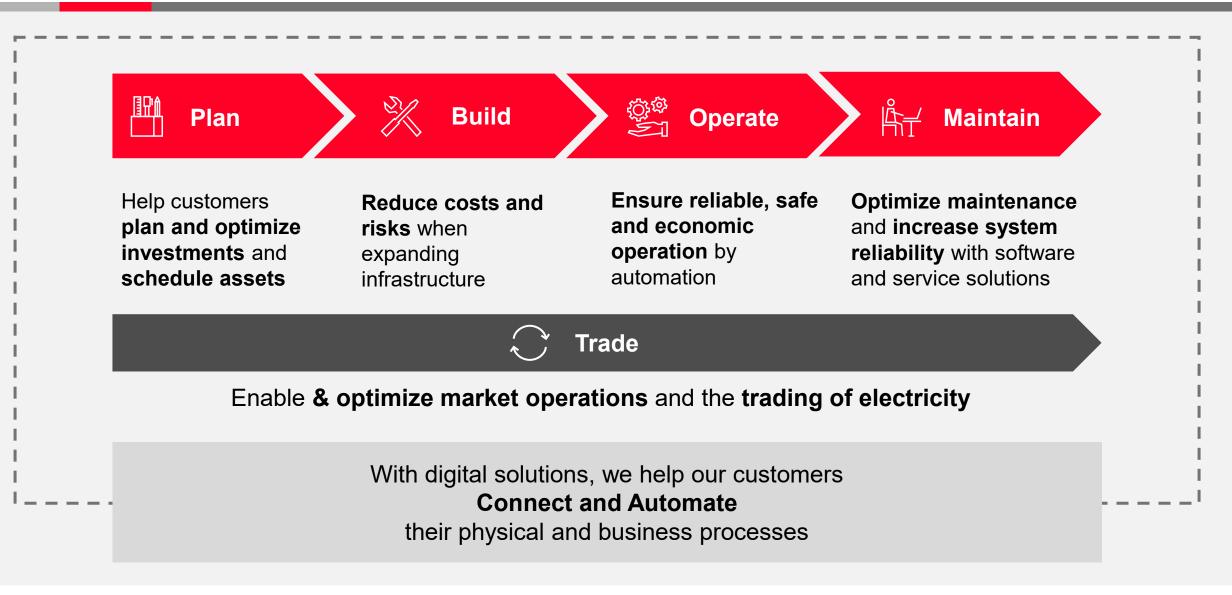
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Each clean GW that we add to the energy system needs to be balanced with an increase in grid capacity and flexibility to meet security, reliability, and resilience





Hitachi Energy has leading digital capabilities to serve customers throughout the life cycle



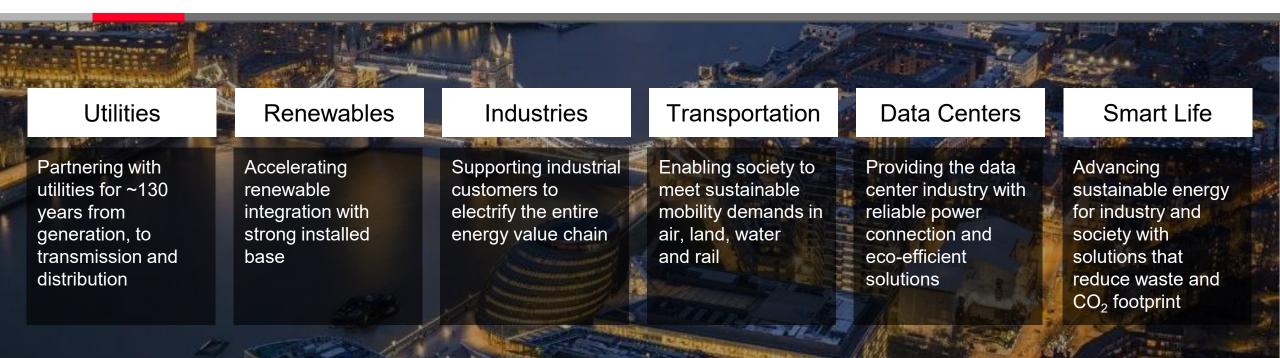
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Delivering across the value chain – supported by digital & services



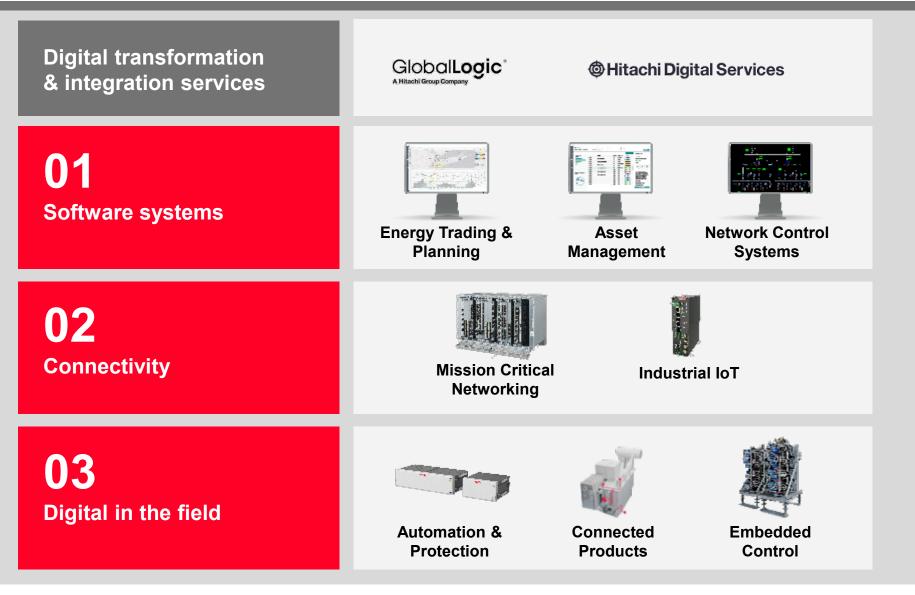


Your total life cycle partner

	Plan		Build	>	Operate &	Operate & Maintain	
Virtual and augmented reality Digital twins Energy solutions consulting		Remote FAT* Virtual commissioning Virtual training		Al** driv	s assisted operations en operations nous operations	Predictive maintenance Optimized workforce Self-servicing assets	
-	Public © 2024 Hitachi Energy. All rights reserved.	*FAT= Fa	ctory Acceptance Tests; **AI = Artific	cial Intelligence		@Hitachi Energ	

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66 Leading digitalization solutions from edge to enterprise



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