The Future of Energy

Industrial Software’s Role in the Energy Transition

GE Digital’s industrial software accelerates the energy transition by making power-generating assets more efficient, modernizing the grid so it’s more secure and resilient, and helping customers provide sustainable, reliable and affordable power to consumers.

Intermittency
Renewable energy is intermittent – it’s not always sunny or windy. Industrial software helps utilities and power generators with forecasting and day-ahead planning.

Balancing DERs
Every solar panel and wind turbine is a Distributed Energy Resource (DER), continually adding and subtracting energy. Software helps balance renewables on the grid.

Weather
Unpredictable weather events such as forest fires, hurricanes and floods are increasing. Software can predict outages and help ground crews restore power faster.

Profitability
The complexity of renewables makes the energy market much more dynamic. Power generators must leverage utility data to remain efficient and profitable.

Insights
Digital Twins, combined with domain expertise and Industrial AI technologies, help utilities provide sustainable, reliable and affordable power to meet the world’s growing demand.

The energy landscape will change more in the next 10 years than it has in the previous 100.

1/3 of the world’s electricity is created by GE
40% of the transmission utilities on the planet use GE Digital software
90% of the world’s power transmission utilities are equipped with GE technology
50% the amount global demand for power will grow by 2040

GE Digital is driving the digitization of the power sector, in partnership with some of the world’s largest utilities and energy producers.