

CONNECTIVITY

The silver bullet to energy transition

GE Vernova Portfolio of Businesses



BUSINESSES

- 1. Digital
- 2. Energy Financial Services
- 3. Gas Power
- 4. Grid Solutions
- 5. Hybrids Solutions
- 6. Hydro Power
- 7. LM Wind Power
- 8. Nuclear
- 9. Offshore Wind
- 10. Onshore Wind
- 11. Power Conversion
- 12. Steam Power



GAS TURBINES INSTALLED



COUNTRIES



WIND TURBINES INSTALLED



EMPLOYEES WORLDWIDE

GE Vernova





300+ customers globally

30 billion points per day, 22 years of data online

1.1M ANALYTICS executions per day

~1K plants monitored remotely

1000+ customers globally

30% of global Distribution utilities use Grid Software

40% of global Transmission utilities use Grid Software

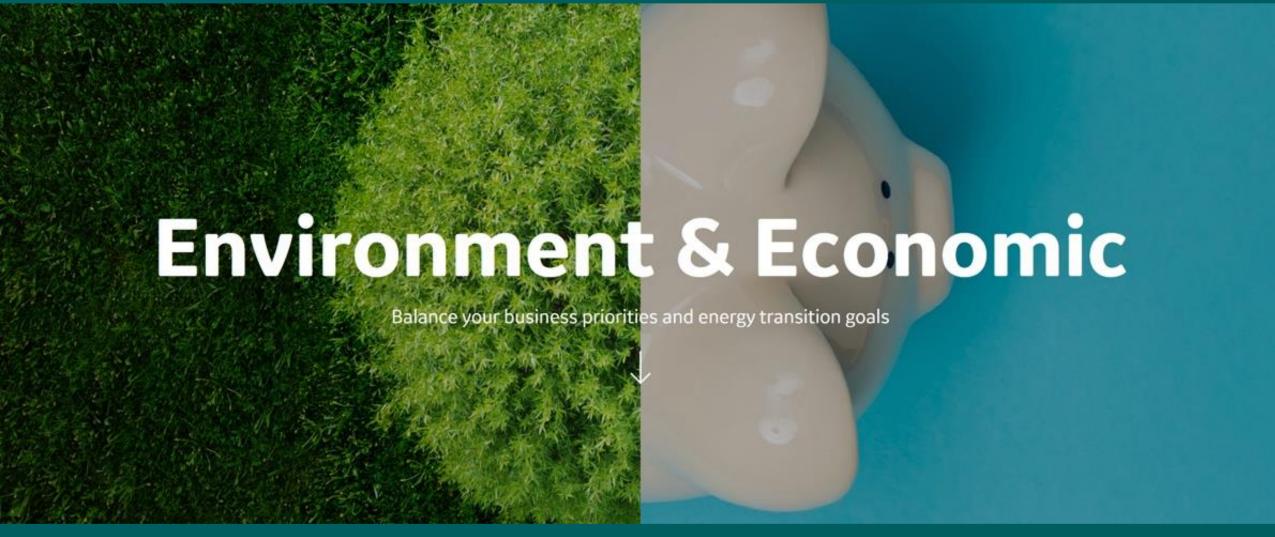
29% ADMS global market share by meters served

20,000+ customers;

500,000+ installations in automation alone;

~40 years of manufacturing data.

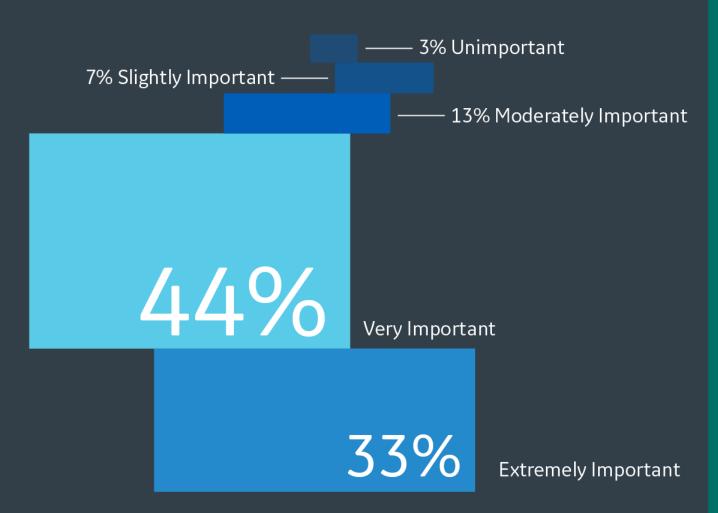




https://www.ge.com/digital/reuters-et

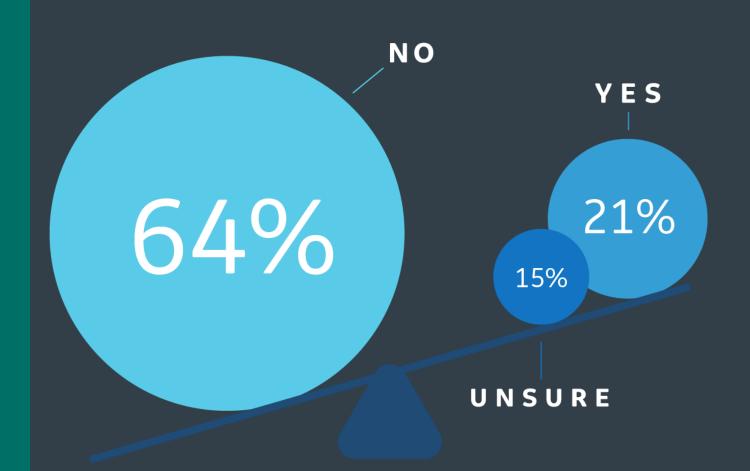


How important is digital transformation to a successful energy transition?





Is it possible to deliver the energy transition without rapidly increasing digital transformation?





34%

Reliability is more fully maximized with the addition of software solutions

50%

Strongly Agree

Agree

Unbiased

Disagree

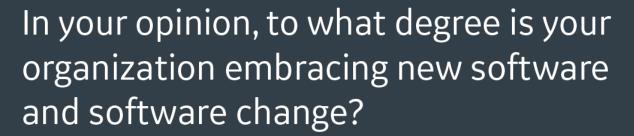
Strongly Disagree

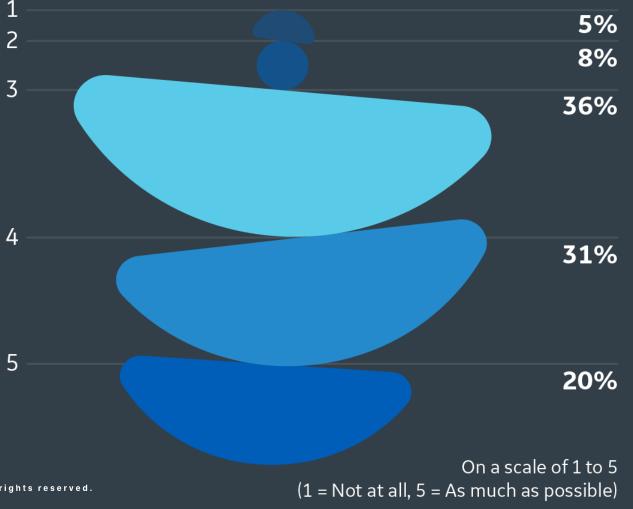
12%

3%

1%

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Digital Tools for the Energy Transition

Perform while Transforming



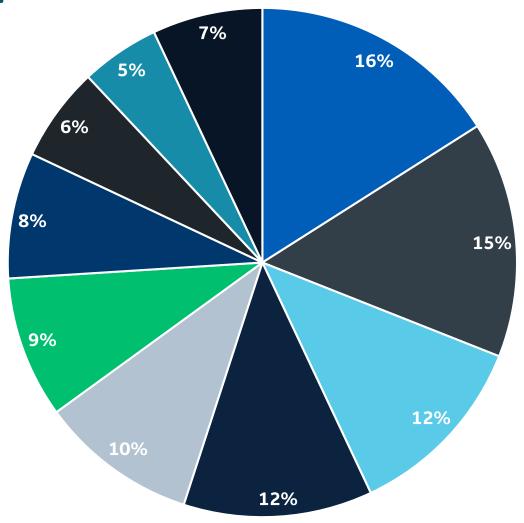




What digital tools are being invested in to assist with Energy Transition?



- Predictive Analytics Software
- Remote Operations Software
- Mechanical Integrity / Operational Maintenance Software
- Workforce Management Software
- Emissions Reduction Software
- Asset Strategy/Criticality Software
- Carbon Predictions/Accounting Software
- Health Condition Monitoring
- All
- None or Other



Digital Maturity Model for the Energy Transition

	Operationalize the Plant		Operationalize the Process		Transform the Enterprise
Environmental	Emissions Management	+	Carbon Optimization	+	Carbon Performance Management
			Measure, optimize and monetize carbon		
Performance	Operations Performance Management	+	Intelligent Plant	+	Autonomous First
			Boost plant and fleet profitability		
Planning & Risk	Asset Integrity	+	Connected Risk Management	+	Extended Planning & Risk
			Reduce asset investment risk		
Operations	Asset Management	+	Asset + Supply Chain	+	Circular Operations
			Drive efficiency and productivity		
Maintenance	Prevention & Predictive Maintenance	+	Prescriptive Maintenance	+	Total Predictive Maintenance
			Improve availability and maintenance precision		

Market Forces



Greenhouse Gas Accounting

Driving pressure to achieve net zero

Investor Pressure

Demanding to produce and achieve net zero targets across all industry segments

Regulatory Squeeze

Driving regulation to disclose emissions across industries and regions

Software Tools are Lacking

Unrealistic and do not track nor manage a net zero strategy

GHG DATA MUST LINK DIRECTLY TO OPERATIONS AND NET ZERO STRATEGY

Environmental Social Governance

Share Price and Access to Capital

Product Carbon Intensity

Increased Value for Products Sold

Access to Carbon Markets

Climate Finance to Reduce

Industry Pain Points





DATA COLLECTION



AUDITING



OPERATIONAL IMPACT

- Heavy reliance on front-line EHS to collect buried GHG data no single enterprise system
- Manual and intensive audit process zero change recourse, lots of re-work, high risk
- No central enterprise system aggregating usable data to action plans Operations can't reduce carbon inventory; Commercial teams can't message low carbon intensity

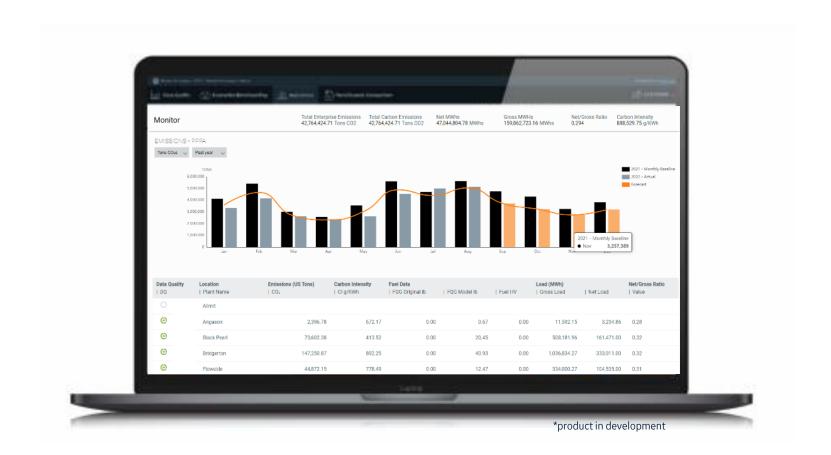
CURRENT INDUSTRY TOOLS LAG REALITY

It's difficult for enterprises to track & manage to your net zero strategy

Transform with CERius for Carbon Management



Measure, manage, and operationalize insights to reduce carbon emissions











Fleet Orchestration

Reduce uncertainty with improved forecasting to achieve economical, clean and reliable power generation.











STOCHASTIC UNIT COMMITMENT OPTIMIZER

- 15 minute, day, and week ahead recommendations
- Integration with Energy Management System*
- Visibility into how to best navigate the uncertainty of matching generation and demand

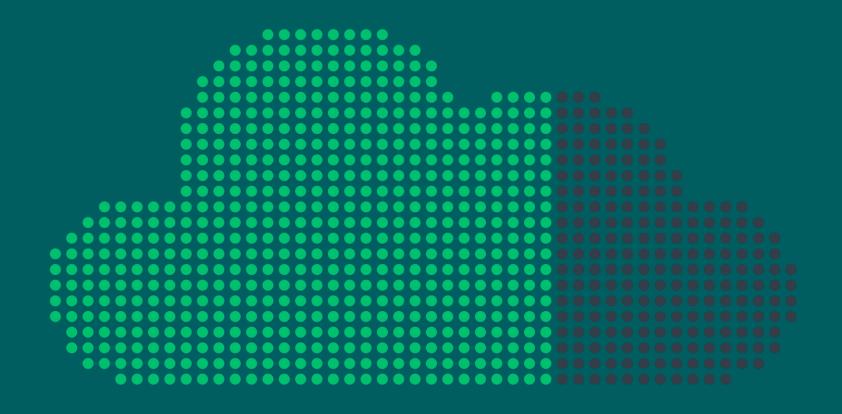
JNCERTAINTY

- Variability is captured from all inputs
- Fast solution architecture allows model to factor in the impact of variability

*GE Grid Product

Extent of cloud-first strategy adoption





71%

Are completely or somewhat committed to a cloud-first strategy

Is composable software more valuable than point solutions?

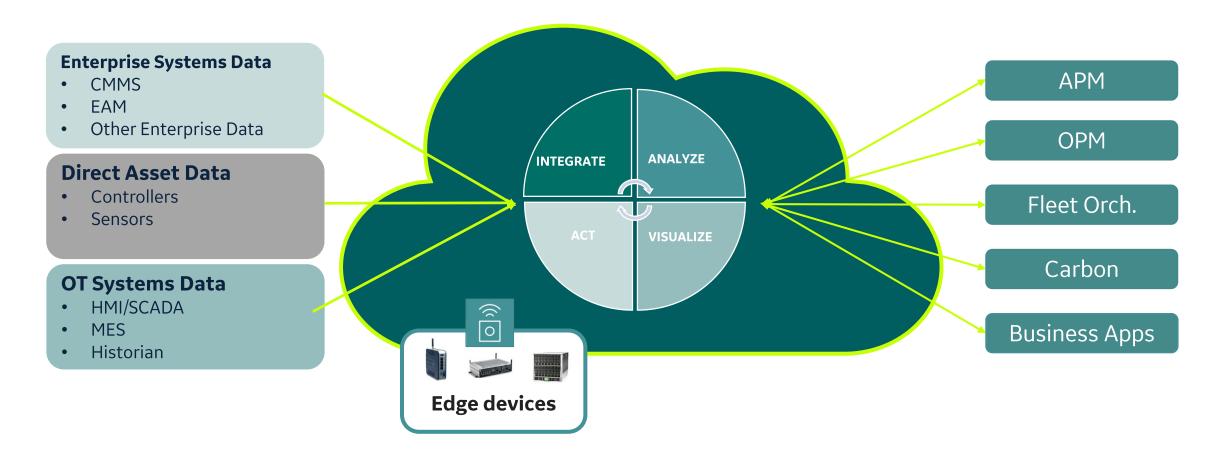




All respondents tended to view composable software, which allows users to assemble components as needed, as equally (44%) or more (42%) valuable than point solutions.

Achieving a Composable Ecosystem for Energy Transition

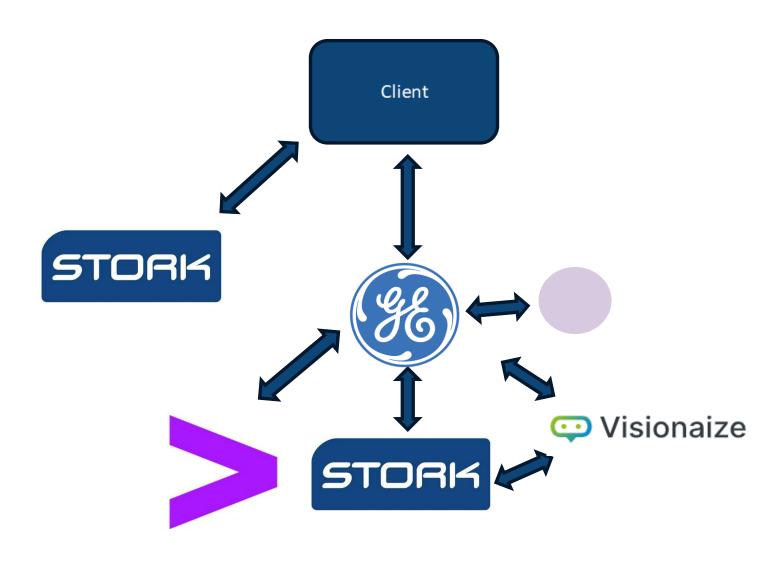




Achieving a Composable Ecosystem for Energy Transition



Partners are key contributors to our success



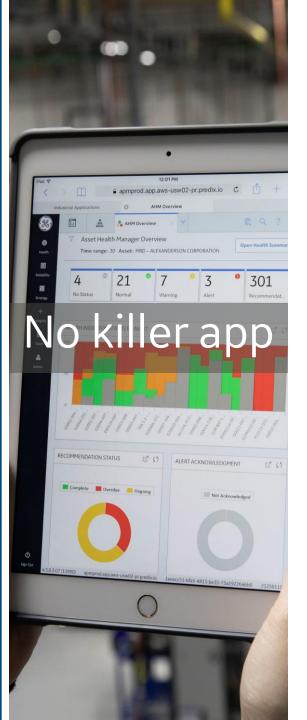


The Energy Transition

needs digital solutions.

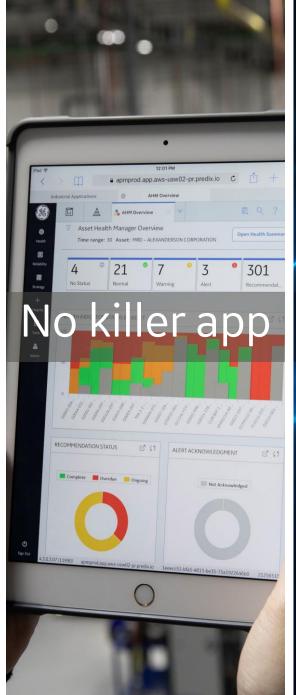


The Energy Transition



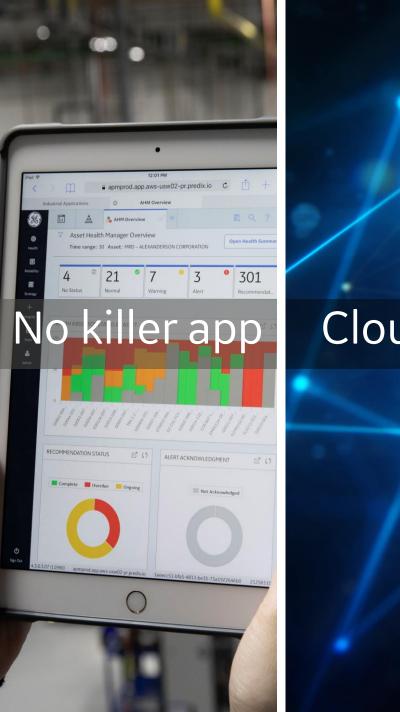


The Energy Transition





The Energy Transition









Customer Conference

Join Us



20 TRANSFORM 24 TO TRANSITION

April 23 – 25 Houston, Texas



Thank you



For more on GE Vernova's role in Energy Transition...



