23 Figures taken from case studies supplied by Calibr8 and Vistra.

19 Parts of the U.S. network are more than a century old. 70% of the grid’s transmission lines and power transformers are over 25 years old, and the average age of power plants is over 30 years old.

17 Key U.S. market segments lose about $27 billion per year due to power outages.

15 The number of power outages related to weather events has doubled since 2003, according to Climate Central.

14 Electric battery vehicles are expected to rise to 21 million in 2030.

Between 2010 and the first quarter of 2019, U.S. power companies announced the retirement of more than 546 coal-plants.

$13.1 billion by 2023 invested in battery storage and power utility infrastructure. (Source: Dell Technologies Energy and Electricity Renewable Transition presentation, Sept 2019)

9 The overall microgrid market is expected to be valued at USD 39.10 billion by 2023, growing at a CAGR of 11.97% between 2018 and 2023.

7 77.7 GW of solar PV capacity is installed in the U.S.

Renewable Energy Now Accounts for a Third of Global Power Capacity

Smart grids could result in nearly $600 in direct savings per household within the next decade.

Upgrades infrastructure to meet today's energy choices to reduce global carbon emissions. Complexity in energy supply is a major barrier to progress.

Between 2010 and the first quarter of 2019, U.S. power companies announced the retirement of more than 546 coal-plants.

Source: Dell Technologies Energy and Electricity Renewable Transition presentation, Sept 2019


https://www.energy.gov/articles/infographic-understanding-grid


Irena International renewable Energy Agency

The grid loses power 285% more often today than in 1984.

BloombergNEF https://about.bnef.com/new-energy-outlook

Complexity in energy supply is a major barrier to progress. Increasing investment in industrial battery storage is required to meet today’s changes.

Rationalize maintenance programs, workforce deployment decisions and IOT and Robotics Technologies.

Projects can improve safety and reliability with fast, real-time insight to action.

One third of power generation and supply and demand is lost on the grid. 80% of the world’s energy is wasted.

IoT and Robotics Technologies

The power capacity of renewables is set to double between 2018 and 2023.

The challenge to meet today’s changes and upgrades against cyber attacks across the entire grid.

Interoperability – not tied-down to proprietary systems.

Decrease the risk of grid failure and increase system efficiency.

Malicious cyberattacks on the energy sector are growing at a rate of 30-50 fatalities annually worldwide.

The number of power outages related to weather events has doubled since 2003, according to Climate Central.

Distributed analytics detect unwanted actions, report and escalate issues.

66% of the world’s energy is lost on the grid.

The demand for reliable and secure power disruption impacts business and the U.S. economy.

Keeping facilities, employees and the public safer.

Dell Technologies Edge computing and IoT solutions.

The grid loses power 285% more often today than in 1984.

Secure against cyber attacks across the entire grid.

Digitalization of distribution automation as a point of data collection.

One third of power generation and supply and demand is lost on the grid. 80% of the world’s energy is wasted.

Maintain customer and operations analysis.

The grid loses power 285% more often today than in 1984.

Reduce the risk of grid failure and increase system efficiency.

Distributed analytics to empower your facilities and workforce.

Delivering business impact.

DellTechnologies.com/Edge