The Digital Utility
How IoT, Software and Data Science Will Reshape the Electricity Industry

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Transformation

- Flat Demand
- Renewables Growth
- Low Prices
- Asset Write-Offs
- DER Growth
Innovation

Urbanization
Climate Change
Social Impact
Electrification
Transportation
Buildings
EVs
Homes

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Digital Transformation of Electricity

- $387B Eliminate Downtime
- $60B Digitalize Maintenance
- $191B Match Supply & Demand
- $68B Aggregate Supply
- $59B Integrate Storage
- $69B Energy Management

$1.3T Economy
$2.0T Society
By 2020, 7 Billion Connected Assets
Digital Utility Portfolio

- Business Optimization
- Operations Optimization
- Asset Performance Management

- Profitability
- Productivity
- Reliability

- Commercial
- Operations
- Maintenance

- Digital Worker

- Cyber Security

- Steam
- Gas
- Nuclear
- Wind
- Hydro
- Solar
- Transmission
- Distribution
- Substation
- Prosumer

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50+ Digital Journeys Started on Predix

- **20%** Power increase
- **6%** Emissions decrease
- **20%** Availability increase
- **3%** Efficiency increase
- **5%** Reliability increase
- **25%** O&M Costs decrease
32,700MW
62 Sites,
2000 Assets

$200M
Fuel Savings

$3-5M
Increased Revenue
Per Outage

2.5 X
Ramp Rate
Improvement

€1.2M
Savings from
Avoided Outages
The Digital Utility

- Energy Internet
- Smart Cities
- Energy Efficiency
- Energy Storage
- EVs
Leading Through Transformation

Beliefs & Culture

Design Thinking / FastWorks

New Metrics

Talent
$4.0B
Predix-powered and software orders

$730M
Gross Digital Thread cost productivity

400+
Partners

~22,000
Developers on Predix

~670,000
Digital Twins

250
Software applications

G.E., the 124-Year-Old Software Start-Up