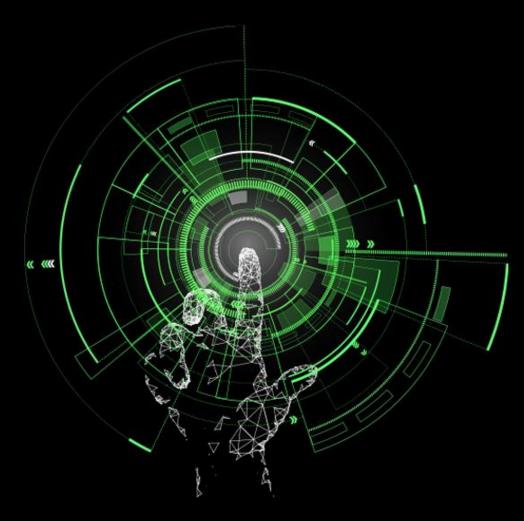
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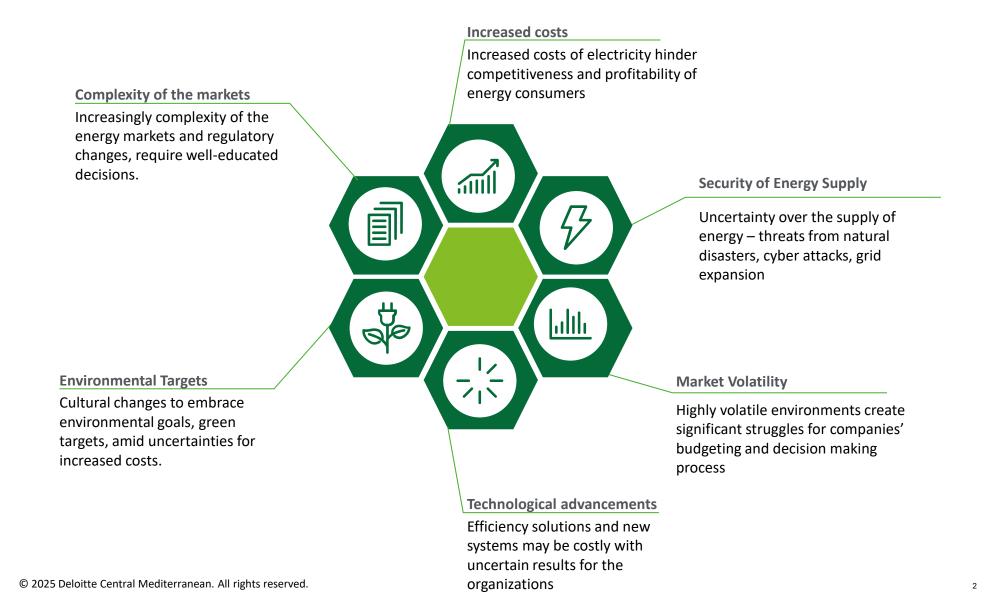


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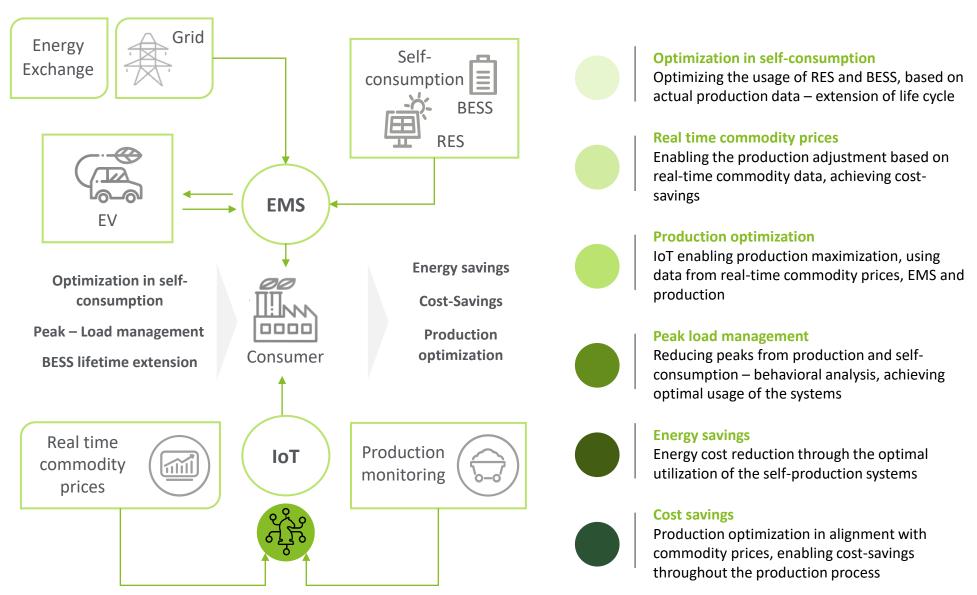
"Innovation in Energy" Conference



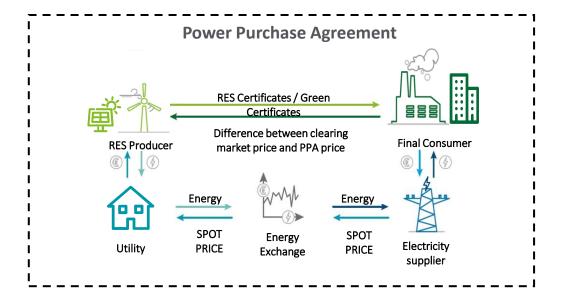
Challenges for Energy consumers



Energy Management Systems, Real time monitoring with IoT & Production Optimization



PPA monitoring



Real – time PPA monitoring tool

- Linked with real time consumption / production
- Shaping / profiling
- Commodity / energy prices
- Energy markets monitoring



Hedging against price volatility

Safeguarding from price hikes

Green sourcing of electricity

Achieve environmental goals

Benefit from the cheap green energy

Potential cost-savings from energy prices

PPA monitoring

- Electricity price forecasts
- PPA flows estimations
- Real time valuations
- Scenario testing



Digital Transformation (Deloitte Global Industry 4.0 Survey)

Digital priorities of power companies

Select the top three digital priorities for your business over the next three to five years

Implement a holistic digital initiative (from generation to distributed energy management) to drive overall productivity/profitability

Improve the reliability KPIs in my operations via machine data and analytics (including machine learning and AI)

44%

Create a more efficiently run business with the use of data and analytics

36%

Develop an end-customer facing demand response solution to help manage grid fluctuations

35%

Gain competitive ground by being more efficient and opportunistic with the use of data, analytics, and Al

31%

Enable operations staff with data-driven insights for better informed actions across plant/fleet/grid

28%

Leverage cobots and/or robotics to automate tasks, especially ones that pose risk or are repetitive

23%

Implement a DERM capability to better manage the influx of renewable energy on the grid

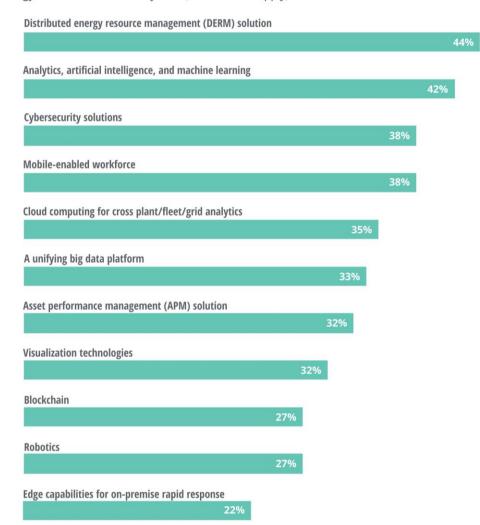
22%

Create new business models and revenue opportunities leveraging data from every aspect of our business

21%

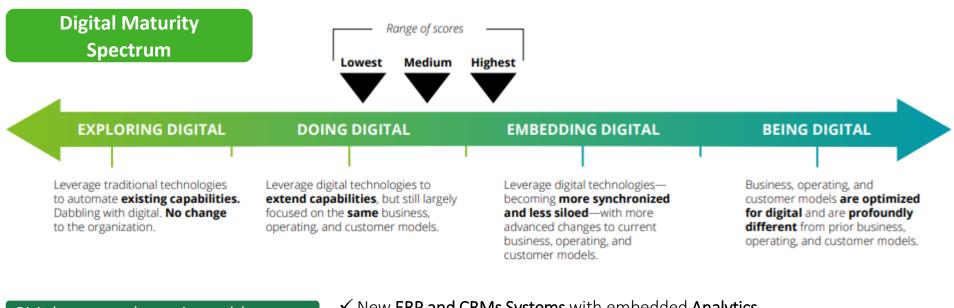
Digital technology capabilities that power companies plan to explore

What digital technology capabilities have you or will you be exploring as part of your digital strategy in the next one to two years? (Select all that apply)



Digital Transformation

Digital transformation is the essential bridge between the business of today and the business of tomorrow. Organizations can uncover and capture the full value of technology and innovation to radically transform their business.

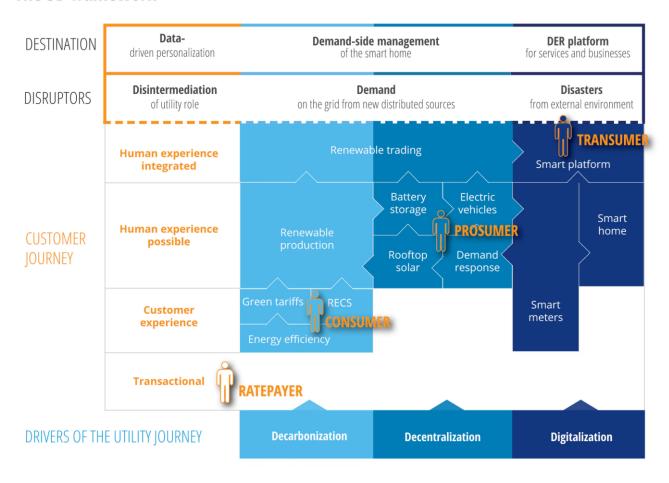


- Digital strategy and operating model
- Digital culture, talent, and organization
- Operations and value chain
- Technology, data, and infrastructure

- ✓ New ERP and CRMs Systems with embedded Analytics
- ✓ New Management Reporting with KPIs and dashboards
- ✓ New HR Management Systems and Training platforms
- ✓ New Asset Management & Predictive maintenance systems with SCADA, GIS and Analytics
- ✓ New **Real time monitoring platforms** with IoT
- ✓ Increase efficiency and reallocation of resources with RPAs Machine Learning
- ✓ Cloud infrastructure and Cyber Security
- ✓ Embrace Gen AI

Digital Transformation

The 3D framework



Customer centric strategies

- Increased Customer Engagement through smart meters, sensors and open platforms.
- Higher retention of customers
- Increased customer satisfaction and customer empowerment through new digital solutions, smart appliances and Virtual Assistants.
- Real time management, Peer-topeer transactions, new revenue streams (EV charging, solar panels, storage units, etc.).
- Enhance digital marketing to attract clients and focus on E-Commerce & E-bills

Cyber security and infrastructure protection

Cyber breach of infrastructure threats

Operational Technology

- · Loss of control of production line
- Loss of safety systems
- Loss of control sensors etc.

Industrial IT Risks

- Stop to production line
- Asset damaging
- Delay in deliveries and selling etc.

Third Parties

- Unintentional or accidental breaches
- Abuse or disruption of systems
- Breach of Intellectual Property (IP) etc.

Enterprise IT

- Unavailability of data and applications
- Loss of communications
- Data breach etc.

Business impact - a compromise of IT and OT assets and systems may result in impacts in the following areas:



- **Financial**
- **Operational**
- **Reputational**
- **Legal & Regulatory**





Develop a holistic response approach

Resilient

Holistic strategy approach for infrastructure protection



Use advanced technologies to proactively identify and hunt down threats

Vigilant



Embed cybersecurity into everything from the beginning

Secure

Critical Energy infrastructure protection

Critical energy infrastructure are vulnerable at cyber attacks, threatening security of supply of energy. Unstable geopolitical conditions make highlight the importance of energy infrastructure security.

EU Preparedness Union Strategy

- Stockpiling of energy equipment
- EU-wide preparedness exercises
- Cooperation with NATO
- Integrated risk and threat assessments

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This document has been prepared by Deloitte Business Solutions Societe Anonyme of Business Consultants.

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