

EY UtilityWave

Transforming the energy grid

Your digital world. Realized.



Distribution system operators face multiple challenges in transitioning to a new energy system, such as:

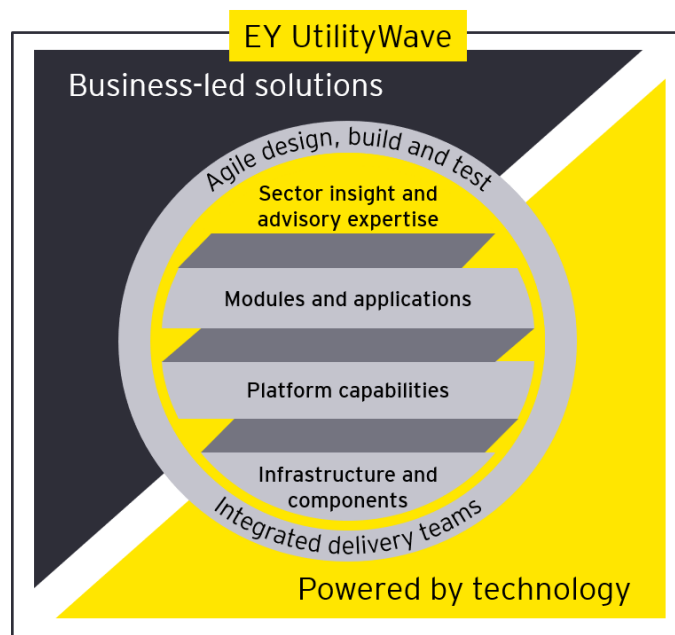
- ▶ Dealing with reduced appetite for large-scale investments due to pressure from customers and regulators for greater interaction and responsiveness from energy providers
- ▶ Supervising utilities that are focusing on core services and strategically outsourcing managed services
- ▶ Overseeing flexibility, interoperability and scalability of information technology (IT) and operational technology (OT) solutions that are now becoming critical
- ▶ Addressing the 'Waterfall' approach, which is costly and prone to delay agile change delivery
- ▶ Identifying utilities that are shifting delivery risk onto product/service providers

The new energy world creates an urgency for utilities to build an enhanced set of digital capabilities that will support maintaining its role as the connector of energy supply and demand.

Decarbonizing, decentralizing and digitizing the traditional grid model

EY UtilityWave is a digital solution that helps our clients to seamlessly transition to the digital grid. The solution helps deliver the capabilities needed to tackle the biggest challenges of a digital, dynamic energy system in one business-centric platform that connects multiple legacy systems, new IoT devices and diverse sources of data. The capabilities include broad visibility, effective control and opportunities to unlock real value from data.

A service that brings the depth of EY know-how underpinned by world-class Microsoft technology



Benefits of EY UtilityWave

- ▶ **Innovative best practices in digital grid:** Leverages the extensive global experience of EY from 50-plus smart meter and digital grid projects to bring leading insights into its solution design
- ▶ **Scalable, utility-dedicated platform:** Utilizes the Microsoft Azure cloud to provide a scalable platform on which utilities can build future services
- ▶ **Business-led, technology-powered:** Champions an agile business-centric design approach to help utilities manage their ecosystem of smart meters and Internet of things (IoT) devices and maximize the data analytics they produce.
- ▶ **Flexible commercial models:** Operates flexible commercial models and prices that are customizable according to the client's specific requirements
- ▶ **Modular and configurable services:** Uses a set of flexible and modular business services that can be tailored to suit each individual utility's specific requirements and situation

EY UtilityWave helps deliver agile business design

- ▶ Consulting services that are rich in industry, subject-matter content and digital transformation expertise designed to deliver outcomes
- ▶ Suite of more than five modules and over 30 applications that EY teams can deploy out-of-box and customize for clients
- ▶ Core platform capabilities to rapidly ingest, analyze and represent data from disparate systems
- ▶ Secure EY-managed cloud infrastructure that is 'plug and play' and allows for scaling of services according to clients' needs

Customer success story

Providing insights to a US utility to manage a major rollout of five million meters in an integrated suite of management dashboards

- ▶ The client was about to launch a major deployment of five million new smart meters – a highly complex program that required them to integrate customer, field force, supply chain and safety data.
- ▶ Based on extensive experience in deployment operations support, EY teams worked with the client to formulate a deployment strategy, provide a point of view on key metrics and identify the disparate data sources to develop interactive visualizations of their performance.
- ▶ EY teams developed a suite of deployment performance management dashboards that provided executive and day-to-day operational management views of the deployment progress, and allowed for rapid assessment of performance and identification of risks.

Challenges

- ▶ Build the deployment strategy and key metrics for the program
- ▶ Translate these data into key measures
- ▶ Develop interactive visualizations of their performance to manage deployment execution effectively

Benefits

- ▶ Exercise greater operational control over asset rollout
- ▶ Gain visibility across key operational processes
- ▶ Improve understanding of operational performance against critical KPIs and root causes of risks/issues
- ▶ Obtain real-time, 'anywhere, anytime' access to progress

EY and Microsoft

The digital technologies that are impacting your business today – social, mobile, analytics and cloud – are rapidly expanding to create new employee and customer experiences, fundamentally changing how your organization works, interacts and competes. The EY and Microsoft alliance combines EY deep insights and experience in disruptive industry trends, new business models and evolving processes with Microsoft scalable, enterprise cloud platform and digital technologies. EY and Microsoft can help accelerate digital transformation with advanced solutions that support enterprise strategy, transform customer and workforce experiences, create new, data-driven business models, build intelligent, automated operations and bring confidence that these innovative solutions are secure, compliant and trusted. Together, we can help accelerate digital strategy and amplify your business performance to thrive in a digital world.

For more information visit: ey.com/microsoft

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