



# Grid modernization

## Building the foundation of a digitally mature utility





From smart grid technologies to grid control systems, digital asset management and distributed energy sources, disruptive technology is changing the way utilities do business. Most utilities are making moderate to large investments in mobile and cloud, followed by IoT, RPA and AI. However, their investments in data management systems (what we call the Location of Things - LoT) are considerably behind other industries.

# Grid and asset modernization is the foundation to build lasting reductions in O&M costs, increased safety, and effective capital spending

Cognizant believes this simple truth: To affect real, meaningful change, utilities must evaluate their need at the enterprise level—because installing new software, sensors, or discrete systems, will never drive the change most utilities desire. Real growth happens when you consider how your asset data is collected, cleaned, contextualized, connected, and controlled.

## Harnessing data to drive people, process, and technology advantages

Our grid modernization solutions focus on key strategic areas that drive targeted business value.

 <b>Delivering grid and generation modernization</b>  We have extensive experience helping clients enhance grid responsiveness and resilience, as well as lowering operating costs with advanced automation technologies.	 <b>Optimizing user experiences</b>  Our design, data and platform expertise allows you to quickly and effectively modernize user engagement, improving both employee and customer experiences and satisfaction rates.	 <b>Enabling successful cloud migration</b>  Starting small, we are experts at putting cloud at the center of your digital strategy so you can get more from your data and achieve agility and resilience at scale.	 <b>Providing infrastructure and application management support</b>  We support and assess your entire IT landscape, including infrastructure and applications, identifying ways of reducing operations and maintenance costs to transform processes and achieve greater efficiency.
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Cognizant is trusted by  
8 of the top 10 utilities in North America.

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## How we do it

Our unique methodology accounts for capital assets as well as other neglected assets such as people, processes, data, quality practices and system performance at the point of use.

**We assess, analyze, create/refine your vision, and provide an actionable plan.** Our experience in the Utility Industry has taught us that a simple to understand – easy to communicate – comprehensive plan works. In the **assess stage**, we ensure you have the foundations for grid modernization by reviewing five key areas: infrastructure foundations, data capabilities, customer platform robustness, workforce proficiency and cybersecurity maturity.

## Our capabilities

With an eye toward change management, security and PMO in all our engagements, we focus on four key grid modernization solutions.

- **Grid/asset modernization**

The 80/20 rule that has been used in the past, no longer meets the needs of today's utility. Our experience has shown us that every company, program, and project is different. Our methodology works every time because we focus on the core variables of a successful engagement and your point-of-need and vision.

- **Enterprise Asset Management (EAM)**

Cognizant's Digital Asset Management services and solutions are designed to connect to your existing legacy systems and enhance functionality without having to undertake a massive investment in replacing your legacy EAM.

- **Operations of ADMS/DERMS**

Distributed energy resources have become a high growth area with specific attention given to generation and electric vehicles. However, investments in Distributed Energy Resources Management Systems – how they manage the DERs for optimal savings – is considerably behind the business need and market expectation. Together, we help our clients gain visibility into their emergent needs and business cases.

- **Advanced Metering Infrastructure (AMI)**

Cognizant designs and builds AMI networks for now and the future. We help utilities improve turnaround time, automate processes and technology, and glean actionable insights from their data to provide real time analytics into their performance centers.



## The Cognizant Grid Modernization Team

The Cognizant utility consulting team is comprised of senior leaders focused on driving meaningful industry change. Our goal is to be your trusted partner and advocate as you transform your enterprise. It is our experience that building a trusting relationship requires time and effort. Together we will identify the highest impact strategies, to make your transformation vision a reality.



Cognizant (Nasdaq-100: CTSH) engineers modern businesses. We help our clients modernize technology, reimagine processes and transform experiences so they can stay ahead in our fast-changing world. Together, we're improving everyday life. See how at [www.cognizant.com](http://www.cognizant.com) or @cognizant.

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