



## How can the industry benefit from the 5G adoption?

### 5G Impact in Power & Utilities

[Deloitte.com/5G](https://www.deloitte.com/5G)

The power and utilities industry is constantly modernizing the grid, companies are envisioning how **5G can help harness the power of the growing wave of connected devices and data**, making a significant impact on business models, and people's well-being, and reducing operational costs.



**More than 181 megatonnes**  
Amount of CO2 that could be removed using 5G by 2035



**28.3% projected CAGR**  
value of 5G in the market between 2021 and 2026



**19% of 5G-enabled global digitalization revenues**  
will be to industry, the highest profit from the 5G adoption<sup>1</sup>



**250 billion US dollars**  
Global digitalization revenue enabled by 5G by 2026

<sup>1</sup> Compared with the other 9 major industries (Manufacturing, Public safety, Healthcare, Public transport, Media and entertainment, Automotive, Financial services, Retail and Agriculture)

Source: O2 The Blue, 5G to play key role in building a greener economy; Ericsson, The Industry Impact of 5G, Deloitte Research

5G capabilities, such as **ultra-high bandwidth, ultra-low latency, and large-scale connectivity** will play an essential role in the power generation, transmission, distribution, consumption, dispatching, and emergency communication process in the power system.

## 5G Key benefits



**Reducing maintenance costs**  
Drones can transmit HD videos and images in real time, detecting anomalies and preventing catastrophic damage



**Creating new revenue models**  
5G enables to offer smart surveillance/smart lighting solutions to communities, law enforcement agencies and companies

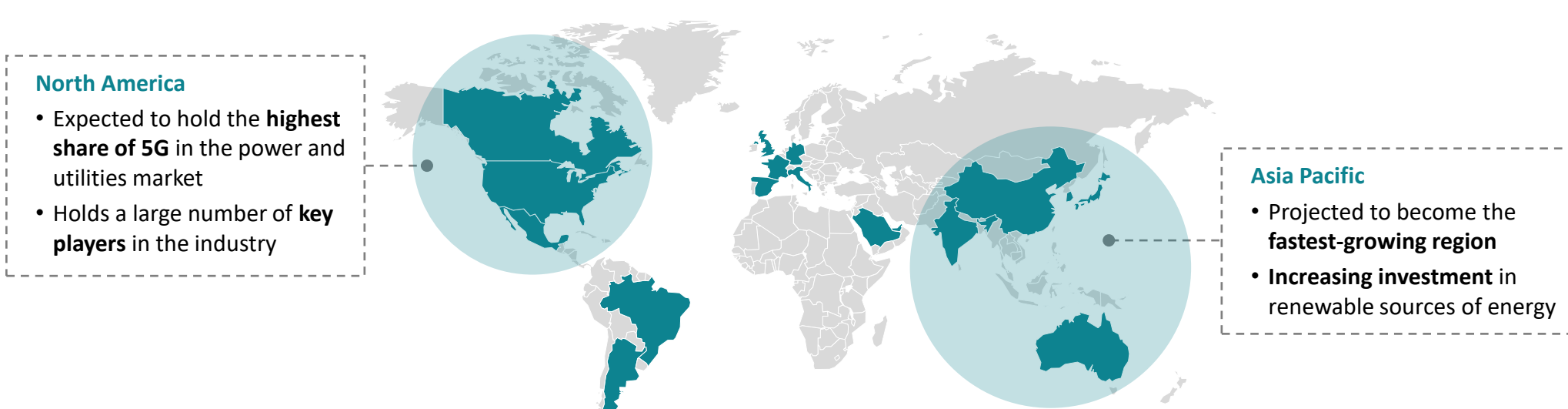


**Improving the health and the customer experience**  
5G networks can improve customer experience by allowing real time remote management of several different operations

## 5G Use Cases

- Connecting devices and assets through the **IoT**
- Field workers** with **AR/VR** for safety and support activities
- Management improvement through **cloud adoption**
- Distribution of energy within a **smart grid and Smart meters**
- 5G drone monitoring** of transmission lines
- Digital twins'** system management
- Remote monitoring** of energy sites
- Energy efficiency** and reducing the effects of **climate change**

## Where are major deployments taking place?



Sources: Global 5G in Energy and Utilities Market Size, Trends & Analysis - Forecasts to 2026

## How can Deloitte help?




Deloitte translates business and industry needs into technical requirements delivering value added end-to-end 5G solutions that lead to **meaningful business outcomes**.

- IDEATE AND PRIORITIZE** Select the areas to be improved with 5G use cases, ideating, identifying and prioritizing the top 5G use case opportunities
- DEVELOP THE BUSINESS CASE** Formulate the operational benefits of the 5G use case(s) defined and associated business case value proposition
- DESIGN TECH REQUIREMENTS** Define and design use case technical solution architecture and requirements, considering deployment strategies and application requirements
- BUILD AND EVALUATE** Start with a point of contact (PoC) first to monitor and evaluate the 5G use case(s) performance and then proceed with rollout
- OPERATE AND MAINTAIN** Define overall governance, operating model and procedures to ensure the sustainability in business as usual (BAU)

Sources: Deloitte TMT Predictions 2021, Huawei, IDC, Gartner, The business research Company

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