

U.S. Grid Analytics Market Size, Share & Trends Analysis Report By Component Type (Software, Services, Hardware), By Application, And Segment Forecasts, 2025 - 2033

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Abstracts

Summary

The U.S. grid analytics market size valued at USD 1.77 billion in 2024 and is projected to reach USD 3.75 billion by 2033, at a CAGR of 8.6% from 2025 to 2033. The market is driven by utilities' increasing reliance on data intelligence to modernize grid operations. The growing deployment of smart meters, sensors, and digital substations is generating massive datasets that require advanced analytics for real-time monitoring, load forecasting, outage prediction, and asset optimization.

As utilities face rising operational complexity due to EV adoption, extreme weather events, and stricter reliability metrics, grid analytics solutions are helping to enhance situational awareness, reduce downtime, and optimize investment decisions across both transmission and distribution networks.

At the same time, the ongoing transition toward cleaner and more decentralized energy systems is intensifying the need for platforms that can manage diverse distributed energy resources (DERs) and two-way power flows. Federal and state-level funding for grid modernization, combined with initiatives promoting resilience, wildfire mitigation, and cybersecurity, is accelerating the adoption of cloud-based and AI-driven analytics architectures.

Increasing involvement of software vendors, cloud providers, and engineering firms is further strengthening the technological landscape, enabling utilities to move beyond

traditional grid planning toward predictive, automated, and data-centric operational models.

U.S. Grid Analytics Market Report Segmentation

This report forecasts revenue growth at country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For the purpose of this study, Grand View Research has segmented the U.S. grid analytics market report on the basis of component type and application:

Component Type Outlook (Revenue, USD Million, 2021 - 2033)

Software

Services

Hardware

Application Outlook (Revenue, USD Million, 2021 - 2033)

Asset Management

Grid Operations & Reliability

Load & Demand Forecasting

Advanced Metering & Customer Analytics

This report can be delivered to the clients within 7 Business Days

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