

ADVANCED SMART METER ENABLES EFFICIENCY IN POWER CONSUMPTION

Wipro develops a Smart Meter for a leading industrial company



INDUSTRY LANDSCAPE

Effective energy management and reduction of energy consumption has come to the fore as a crucial green initiative for global ecological sustainability. Many governments are mandating the adoption of smart devices in power distribution and management under the umbrella term “Smart Grid”. Smart Meters are the key components that add intelligence to infrastructure. These Smart Meters have to comply with regulatory standards of different countries and regions. Besides variations in standards there are also features/functionality variations such as mode of communication, purpose of usage, security levels, tamper protection methods, tariff calculations etc. Utilities are adopting these smart initiatives and enabling users to control, monitor and measure energy usage.

THE OPPORTUNITY

To become competitive in time and capture the emerging opportunities from different countries, the Smart Meter manufacturers need to quickly churn out highly customized products that complied with the respective regulatory standards and pricing edge. The client wanted to address a near term market opportunity which required a completely new Smart Meter product with advance features like intelligent communications, measuring the quality of the power supplied, calculation of tariff etc. The client was looking for a strategic partner who could enable him in realizing the required product along with verification and validation within the stringent timelines.

CLIENT BACKGROUND

The client is a leading global smart meter manufacturer based out of USA and is a major Smart Grid solutions provider. The client's concerned division is having a global team of more than 4500 employees spread across more than 35 countries and is serving on standards boards and government advisory committees to help overcome the challenges of an increasing electrified world.

Smart Meters track & report energy usage and consumption by households and enterprises. With accurate real-time information on load patterns, electricity companies can incentivize consumers to spread their power consumption to reduce peaks and fluctuations in power usage.

SOLUTION

The client chose Wipro as its strategic partner owing to our proven expertise in Smart energy management and its in house developed Smart Meter. Wipro provided end-to-end Industrial Product design and development solution that includes designing hardware, firmware and mechanical, prototype, testing, validation and verification within ten months.

Wipro adopted reliability centric design approach in designing and development and ensured Standards-driven development. The developed advanced Smart Meter had three-phase Power-line and Wireless communication modes, Tamper detection, Service disconnect, Optimized memory footprint and Onboard diagnostics features.

Wipro's dedicated Smart energy lab and the best practices knowledge helped the Smart Meter's verification and validation without any disruptions within the timelines.

BUSINESS IMPACT

The immediate benefit that the client achieved is the ability to address to an opportunity of several million meters deployment in a new market.

The client is benefitted with 25% savings in timelines in "go to market," which in turn has started resulting in gaining higher market share. This has started impacting the top-line since it has open new revenue opportunities and markets. Also the client has achieved the advanced Smart Meter with desired features and the targeted product pricing with 15% savings on the development side.

Thus the client made Wipro a strategic partner and is working hand-in-hand in creating the new Smart Meter variants to cater emerging markets and for their growth for the future.

About Wipro Technologies

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