Iot based smart grid projects

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Pioneering IoT Applications in Smart Grids

The global smart grid market is forecasted to surpass $130 billion by 2028. It"s no wonder considering that the related but more established renewable energy market is worth nearly $1.1 trillion as of 2023 and is predicted to grow twofold over the next 7 years. It all boils down to the fact that smart usage of electricity in the form of IoT smart grid is a rising trend that can be exploited by various technology, energy, utility, and IoT companies.

Read also: AI in the renewable energy market

In this article, you"ll discover how smart grid works, why it"s better than traditional grids, and where is the connection between IoT and smart grid technology. On top of that, you"ll find IoT applications and IoT use cases in smart grids. Finally, you"ll learn about the potential future of smart grid technology with IoT and the step-by-step flow for building IoT-enabled smart grid solutions with Intelliarts.

For starters, let"s familiarize ourselves with the main concept related to the topic.

A smart grid is an electrical grid that uses digital technology to monitor and manage the transport of electricity from all generation sources to meet the varying electricity demands of end users.

Smart grids are an enhancement over traditional power grids by incorporating a range of technological capabilities, which will be detailed in the below sections.

It"s essential to understand that smart grids are not only about the management of electricity. At the modern-day level, smart grids can provide plenty of data, both technical and business. Among other things, information provided via smart grid can be used for empowering IoT tech.

Wrapping everything together, here"s how the smart grid operates across all procedures involved in the regular power cycle intended to manage electrical resources:

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As stated previously, smart grids are the advancement of traditional grids. They incorporate a range of technological capabilities allowing for better electrical resources management. Examples of such tech advancements include:

You can discover what such an improvement in the grid technology results into from the comparison table below:

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