

Solar Energy South Africa

Saudi Arabia smart grid metering



Overview

Why did Saudi Electricity start a smart meter roll-out project?

Our vast experience across different sectors enables us to keep up with the complex needs of our dynamic world. In line with Saudi Arabia's Vision 2030, Saudi Electricity Company started the smart meters roll-out project which aims at propelling KSA to a new era of digital transformation.

Will Saudi Arabia's smart grid meet the national electricity needs?

Considering the specifications of the Saudi Arabian national grid, three key aspects are considered for the realization of the smart grid to meet the national electricity needs: 1. Renewable Energy: the smart grid energy system should enable the KSA's renewable targets and allow flexibility to deploy such technologies in the grid network. 2.

What is smart metering project?

Presently, the smart metering project accomplished the installation of 10 million smart meters for its national customers that has functionalities of digitalized billing, real-time measurement, interoperability, re-connection to the grid without human intervention , .

How many smart meters can Ziv deliver to Saudi Electricity Company (SEC)?

ZIV, and its mother company ALFANAR, have been able to locally produce and deliver 550,000 smart meters to the Saudi Electricity Company (SEC), through the Group's EPC company Alfanar Construction.

What is SEC Smart Metering project?

SEC launched the "digital transformation of the distribution networks" project in December 2019 with the Smart Metering Project (SMP) as a key factor in its strategy to improve the service to the end customer. The so-called SMP system fully automates the meter reading and billing process.

Is Saudi implementing a net metering programme?

Saudi has recently declared the implementation of a net-metering programme with its current feed-in-tariffs enacting 0.019 \$ / W and 0.013 \$ / W for residential and commercial sectors.

Saudi Arabia smart grid metering

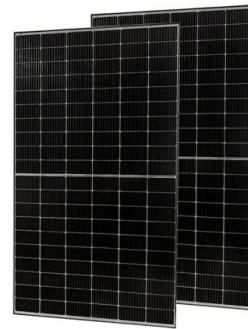


Saudi Arabia Signs Smart Grid Deal with China's State Grid, ...

State Grid Corporation of China (SGCC) has won a US\$1.1 billion contract to install smart meters in Saudi Arabia. China Electric Power Equipment and Technology Company, a wholly owned subsidiary of the state-owned enterprise, officially signed the contract with Saudi Electricity Company on Thursday in Riyadh, SGCC said.

[Saudi Arabia Smart Grid Conference 2024](#)

ZIV will be present at Saudi Arabia Smart Grid Conference 2024 With more than 2500 participants and 70 exhibitors, SASG provides an excellent opportunity to promote products, services, ideas and businesses in a comprehensive way as it attracts the attention of the regional governmental, scientific, business and technological community.



[Smart Meters Project SMP](#)

In line with Saudi Arabia's Vision 2030, Saudi Electricity Company started the smart meters roll-out project which aims at propelling KSA to a new era of digital transformation. The project included the installation of 10 million smart meters ...



ZIV delivers 550,000 smart

meters for Saudi Arabia's smart grid deployment

ZIV Automation has delivered some 550,000 smart meters for Saudi Electricity Company (SEC)'s smart grid deployment. Sectors. All news Customer Services & Management Cybersecurity. ZIV delivers 550,000 smart meters for Saudi Arabia's smart grid deployment. ZIV Automation Oct 11, 2021. Share.



The Need for Smart Grid under the vision 2030 for the ...

The Need for Smart Grid under the vision 2030 for the Kingdom of Saudi Arabia: An Overview Advanced Metering Infrastructure.' AMI (Advanced Metering System) is a critical component of the smart grid for analysis (the current grid system in Saudi Arabia), which has a one-way power flow (From energy generation to energy consumption).

Saudi Electricity finishes installation of 10 million smart

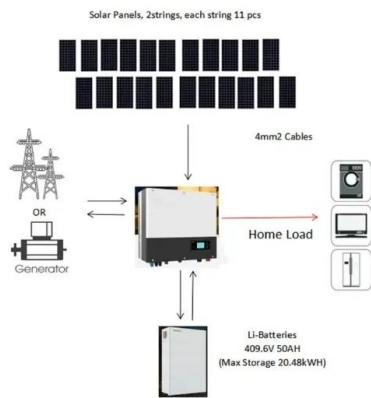
...

The Saudi Electricity Company (SEC) has announced the installation of some 10 million smart electricity meters and claims this has been done in less than 14 months. In a press statement, the utility's CEO Fahd Bin ...



2022 Saudi Arabia Smart Grid (SASG 2022) (Table of ...

2022 Saudi Arabia Smart Grid (SASG 2022) Riyadh, Saudi Arabia 12-14 December 2022. Hardware Demonstration of a Coding -Based Attack Detection/Correction Metering System ..



202 . Abdullah L. Shah, Wessam Mesbah, Ali T. Al-Awami . Performance Assessment of First Off-Grid Solar PV and Battery Power Systems Deployment for

ZIV smart meters for Saudi Arabia's smart grid ...

The Smart Metering Project (SMP) is identified as the Saudi Electricity Company most important project for digital transformation having installed over 10 million smart meters in record time. The ZIV meter deployed ...



Experimental study and design of smart energy meter for the smart grid

Considering the increase of electricity demand in Saudi Arabia, smart meters can decrease the overall energy consumption. This paper presents the development of a GSM and ZigBee based smart meter.

A smarter electricity grid for the Eastern Province of Saudi Arabia

The disposition to adopt a smarter grid in Saudi Arabia is evaluated through individuals' intention to (1) buy green energy, (2) produce green energy, and (3) use smart meters. This would allow for testing the impact and viability of smart metering technology in Saudi Arabia, and



exploring the demand reducing effects of various feedback



Saudi Electricity Company awards \$2.5 billion smart meters ...

The project was awarded to a consortium of Etihad Etisalat Co. and Al- Fanar Construction for the central and eastern regions of the Kingdom of Saudi Arabia. A branch of China Electric Power Equipment and Technology (SGCC) was awarded the project for the western and southern regions of Kingdom of Saudi Arabia.. As per the report, the start date of ...

Saudi Arabia Smart Grid Network Market Research 2024-2029:

Dublin, Nov. 21, 2024 (GLOBE NEWSWIRE) -- The "Saudi Arabia Smart Grid Network Market, By Region, Competition, Forecast and Opportunities, 2019-2029F" report has been added to ResearchAndMarkets



Saudi Arabia Residential Smart Meters Market Size and Forecasts ...

The development of smart cities in Saudi Arabia is increasing the demand for advanced energy management solutions, including smart meters. The deployment of AMI (Advanced Metering Infrastructure) systems is enabling more sophisticated data collection and analysis, leading to improved grid management and customer engagement.

Smart Grid and IoT for the Integration of Renewables in

...

Smart Grid and IoT for the Integration of Renewables in Saudi Arabia Keynote Speech International Webinar Prince Sultan University, Saudi Arabia 16 September 2020 Sensors/power meters PV Panels Customers/Operators Security camera Occupant comfort Demand response Solar PV/Storage



Saudi Electricity finishes installation of 10 million ...

The Saudi Electricity Company has installed some 10 million smart electricity meters in a record time of less than 14 months. the utility claims that 4 million were manufactured locally as part of efforts by Saudi ...

Saudi Arabia Smart Grid Sensors Market Research Report 2024

Saudi Arabian Smart Grid Sensors Market. Dublin, Nov. 14, 2024 (GLOBE NEWSWIRE) -- The "Saudi Arabia Smart Grid Sensors Market, By Region, Competition, Forecast & Opportunities, 2019-2029F" report



[Saudi Arabia Smart Grid Market](#)

The market for smart grid network in Saudi Arabia is expected to grow at CAGR of more than 3% in the forecast period of 2020-2025. In a nation like Saudi Arabia growing renewable energy and the need to modify existing grid



networks to meet the growing power demand, the market for the smart grid is expected to witness considerable growth.

ZIV delivers PRIME smart meters for Saudi Arabia's smart grid

ZIV (PRIME Principal member) and ALFANAR have been able to locally produce and deliver 550,000 PRIME modular smart meters to the Saudi Electricity Company (SEC), through the Group's EPC company Alfanar Construction.. The ZIV meter deployed is a modular design with integrated dual technology, PLC PRIME 1.4 and NB-IoT is a flexible ...

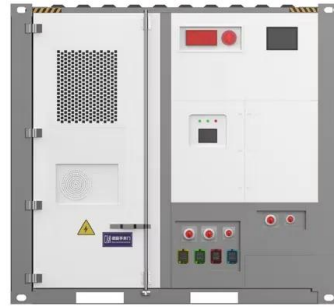


Saudi Arabia Smart Grid Market Size, Share, Forecast

The Saudi Arabia smart grid market size reached USD 990.7 Million in 2024 and is expected to hit USD 3,272.8 Million by 2033, with a CAGR of 14.2%. Advanced Metering Infrastructure, Smart Grid Distribution Management, Smart Grid Communication, Grid Asset Management, Geographic Information System, Billing and Customer Information System

Ningbo Sanxing Clinches CNY302 Million Saudi Smart Meter ...

(Yicai Global) Jan. 7 -- Ningbo Sanxing Medical Electric will export CNY302 million (USD43.5 million) worth of smart electric meters to Saudi Arabia as part of the State Grid's USD1.1 billion smart meter and services deal to the Middle Eastern kingdom. Ningbo Sanxing, which announced the deal yesterday, did not specify product amounts or



[Product Catalog](#)

of water and energy. Specifically, in Saudi Arabia where water is already in scarce supply, such losses have a significant impact. Combined with our high-performance Saudi Meters Company radio technology, our meters are ready for mobile readings (via a mobile or fixed network, for example). Take full advantage of our smart metering data to monitor



[Smart meteres](#)

alfanar smart meters are designed, manufactured, and type-tested in accordance with the latest IEC Standards and Saudi Electricity Company (SEC) specifications and use the most advanced telecommunications technology in the metering field. alfanar smart meters comply with the highest quality requirements and are tested for the highest accuracy of energy consumption, and ...



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