

Smart grid exemple Philippines





Overview

Presentation Outline Drivers of Smart Grid Existing Technologies and Deployment Roadmap for Utilities Key Takeaways .

Distributed Energy Resources Isolated Power Supply Microgrids Energy Storage Systems Prosumers Before Simple One-way Power System.

Pre-EPIRA Vertically Integrated Single wholesale provider Regulated distribution and supply by DUs Bundled costs Regulated Tariffs.

Distributed Energy Resources Isolated Power Supply Microgrids Energy Storage Systems Prosumers Source: Bloomberg NEF Decentralization



Smart grid exemple Philippines



Smart grid solutions , Schneider Electric Philippines

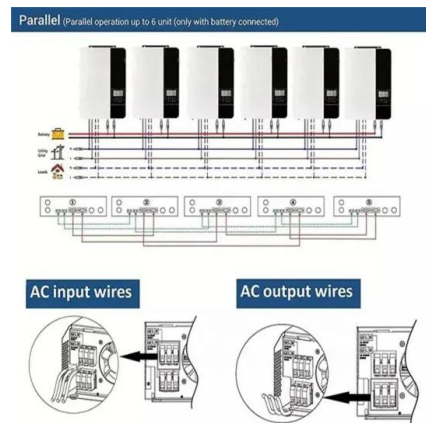
The new energy landscape demands more reliable electricity distribution. However, it also generates new opportunities to make LV grid management more efficient thanks to smart meters and IoT sensors. Discover how our smart grid solutions can help utilities have the right visibility on the LV side of the grid.



Smart grid solutions , Schneider

Philippines to develop smart grid plan

Philippines, Manila: The Philippines' Department of Energy has announced the development of a smart grid policy framework and a roadmap for the power industry. Smart grid is an electric power grid upgraded with advanced automatic control and communications techniques and other forms of information technology.



SMART GRID POLICY FRAMEWORK AND ROADMAP FOR THE PHILIPPINES ...

Source: ISGF Smart Grid Handbook for Regulators and Policy Makers, November 2017
Smart Grid Technologies Outage Management System (OMS) OMS provides the capability to efficiently identify and resolve outages and to generate and report valuable historical information. Integration with GIS will help to identify fault locations



Electric Philippines

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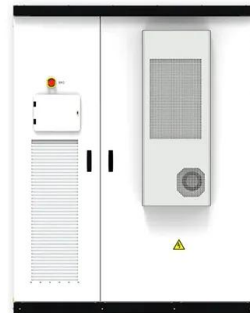


Philippines Smart Grid Market

The Philippines needs to take its grid to the next level with interoperable standards, and greater security. The utilities will be seeking smart grid solutions, and many will be eager to provide them. The Japanese, Koreans, and Chinese are very present in the market, offering free pilots of products and solutions.

Philippines Smart Solar Network

The Philippines Smart Solar Network project is developed through the installation of smart grid controllers in combination with off-the-shelf solar and battery storage components. The pilot phase of the project involved the installation of a smart solar network in San Isidro, Busuanga, Palawan, which currently provides energy to 62 households.



COMPREHENSIVE AND HOLISTIC SMART GRID POLICY ...

Smart Grid System adoption o Strategic push needs to be exerted on increasing interoperability between systems, strengthening shared platforms, and establishing harmonized standards ...



Power Development Plan 2020-2040 , Department of Energy ...

Power Sector Roadmap, 2021-2040 rolls-out the updated power sector roadmaps for generation, transmission, distribution, supply, electricity market, off-grid development, and total ...

12.8V6Ah

- Nominal voltage (V):12.8
- Nominal capacity (ah):6
- Rated energy (Wh):76.8
- Maximum charging voltage (V):14.6
- Maximum charging current (a):6
- Floating charge voltage (V):13.6-13.8
- Maximum continuous discharge current (a):10
- Maximum peak discharge current @10 seconds (a):20
- Maximum load power (W):100
- Discharge cut-off voltage (V):10.8
- Charging temperature (°C):0-+50
- Discharge temperature (°C): -20-+60
- Working humidity: <95% R.H (non condensing)
- Number of cycles (25 °C, 0.5c, 100%doD): >2000
- Cell combination mode: 32700-4s1p
- Terminal specification: T2 (6.3mm)
- Protection grade: IP65
- Overall dimension (mm):90*70*107mm
- Reference weight (kg):0.7
- Certification: un38.3/mds



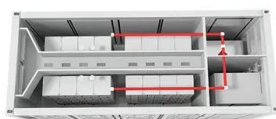
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Robust Pathways for a Just and Managed Energy Transition in the Philippines

To further understand the implications of transitioning the Philippine energy sector towards cleaner sources, Climate Smart Ventures Pte. Ltd. (CSV) together with key partners is undertaking a scoping study that will examine the critical factors required for a just and managed transition in the Philippines.

Sample Order
UL/KC/CB/UN38.3/UL



DEPARTMENT CIRCULAR NO. DC2019

"Grid" - refers to the high voltage backbone system of interconnected transmission 241 lines, substations and related facilities, located in Luzon, Visayas and Mindanao, or 242 as may be ...



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Power Development Plan 2020-2040 , Department of Energy Philippines

Power Sector Roadmap, 2021-2040 rolls-out the updated power sector roadmaps for generation, transmission, distribution, supply, electricity market, off-grid development, and total electrification. Overarching policies and programs, such as smart grid and power sector database enhancement, were also highlighted.



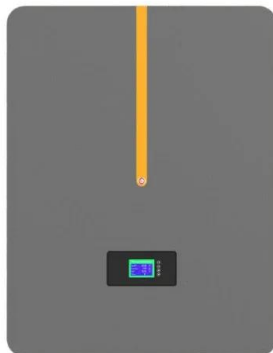
Smart Grid PH

Smart Grid revolution! We take serious matters into our hands. We focus our efforts to offer solutions that make a difference; solutions to pressing problems that require modern high-tech innovation and fit-for-purpose technological necessities.



COMPREHENSIVE AND HOLISTIC SMART GRID POLICY ...

Smart Grid System adoption o Strategic push needs to be exerted on increasing interoperability between systems, strengthening shared platforms, and establishing harmonized standards and protocols; Highlights of the Smart Grid Forum





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