

Can Smart Grid technology improve Indonesia's power system?

Smart grid technologies can facilitate solutions for demand growth, energy access and renewable integration. This paper presents the establishment of a smart grid roadmap for Indonesia's power system including a discussion on the applied method.

Should smart grids be adapted to the Indonesian context?

With a professional implementation of smart grids latest technological developments and best practice processes can be leveraged. Nevertheless, they need to be tailored to the Indonesian context, taking into account specific requirements to meet the country's energy vision.

What is the IEA's Indonesia smart grids workshop?

The IEA's work as co-host of the Indonesia Smart Grids workshop is part of the IEA's Clean Energy Transitions in Emerging Economies programme, which has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952363.

Could Microgrid technology be used on remote Indonesian islands?

This solution works just as effectively at a small scale as it does at a large scale. Microgrid technology could be employed on remote Indonesian islands, which could combine local energy sources with existing loads to feed a small grid, all of which is controlled by a central microgrid controller.

Is the Smart Grid a pillar of Industry 4.0?

A shift occurs in research topics over a relatively short time related to a smart grid. Research topics on the smart grid in Indonesia were identified as growing in line with the global trend toward micro-grids and the internet of things (IoT). This trend has been regarded as the pillar of industry 4.0.

What is Siemens doing with smart grid technology?

At Siemens we are working closely with the Ministry of Energy and Mineral Resources (the policy-maker) and the state-owned utility company (the front-end executor) to bring smart grid technology to reality. We introduced the technology to them, and now we're helping them execute the initiative.

PDF | On Oct 1, 2017, Benedikt R&#246;mer and others published Pioneering smart grids for Indonesia - the case of a smart grid roadmap development | Find, read and cite all the research you ...

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At Siemens, we see smart grid tech solving many of the challenges faced by Indonesia's energy sector. It would improve reliability, as smart grids are able to forecast problems, automatically managing grid operations when there is a problem or fault, and using "adaptive defense schemes" or "fast power-based load shedding" to restore ...

As part of the power system transformation in Indonesia, the 2020-2024 National Medium-Term Development Plan (RUPTL) will include the deployment of smart grids. This webinar dedicated to Indonesian stakeholders kicked off the deployment.

Sedang kaitan smart grid dengan peningkatan stabilitas sistem tenaga listrik PLN dalam mendukung transisi energi, menurut alumnus S1 Teknik Elektro, di Universitas Gajah Mada (UGM) Yogyakarta, smart grid merupakan penggabungan teknologi informasi, sensor, kontrol, teknologi kecerdasan buatan (artificial intelligence/AI) dan machine learning (ML ...

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Indonesia, the first phase of the Siemens Smart Grid Compass<sup>®</sup> - "Orientation" - was executed with a joint PLN-Siemens workshop in Makassar, Indonesia, under patronage of GIZ. This paper presents the method and direct experiences as well as the lessons learned from setting up a smart grid roadmap for Indonesia and

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The development of a smart grid in Indonesia is to answer the challenges of electricity supply ( efficiency / losses, reliability, resiliency and sustainability ) as well as to support the energy transition process ( De-carbonization,

Smart Grid is an electric power grid system equipped with advanced information and communication technology that can enable an efficient electric power management system, provide high reliability of electricity supply, utilise renewable energy sources and allow customer participation in the supply of electricity.

Indonesia, which unveiled its net zero target in 2022, is striving for carbon neutrality by 2060. As outlined in the 2021 RUPTL (the country's ten-year business plan for power projects), the strategy includes an ambitious extension of transmission and distribution lines by more than 47 000 km from 2021 to 2030 in order to reach the targets.

Initiated by concerns from numerous parties towards the development of Smart Grid technology in developed countries and neighboring countries, Indonesians intellectuals from various well known University along with utility practitioners ...

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