

What is smart power distribution systems?

Smart Power Distribution Systems: Control, Communication, and Optimization explains how diverse technologies work to build and maintain smart grids around the globe. Yang, Yang and ... read full description

What does gridmarket do for Sint Maarten?

GridMarket was chosen as Sint Maarten's exclusive renewable energy partner to help the island reach 85% renewable penetration and 100% heavy fuel oil free by 2030. Sint Maarten will work with GridMarket to identify, design, procure, and install distributed energy assets and make corresponding infrastructure upgrades.

What is Sint Maarten's national energy policy?

renewable energy.<sup>10</sup> The plan also emphasizes the need to raise awareness of energy conservation among individuals and businesses through communication campaigns. Sint Maarten developed a National Energy Policy (NEP) in 2014 that aims to mitigate the impact of energy use on the environment while reducing electricity tariffs.

SINT MAARTEN (GREAT BAY) - NV GEBE, the primary electricity and water provider on Sint Maarten, and The Ministry of Public Housing, Spatial Planning, Environment and Infrastructure (VROMI) held a pivotal meeting to address the urgent needs of the island's power production and distribution infrastructure.

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These measures will stabilize the grid in the short term, ensuring reliable power supply during the transition to renewables. Solar photovoltaic (PV) emerges as the cornerstone of St. Maarten's energy future, enabling St Maarten to move from a predominantly diesel-based generation to 23 % RE share by 2034 (in the enhanced PV scenario).

Parties inked a memorandum of understanding, where St. Maarten will work with GridMarket and IRP to identify, design, procure and install distributed energy assets and make corresponding infrastructure upgrades.

The ability to meet St. Maarten's increasing electricity demands with ongoing development and population growth were among the top points raised by State Secretary Zsolt Szabó during these discussions. NV GEBE's team reiterated that the incoming Power Plants, over the mid- and long-term, are projected to surpass the consumer capacity.

# Smart power distribution system Sint Maarten

In Sint Maarten, the sole power producer and distributor is the government-owned NV GEBE, which has a total installed capacity of 97.3 MW, 86 MW of which is operated on heavy fuel oil. 6 The historical peak demand is 50 MW. The average tariff in Sint Maarten is \$0.35-\$0.36/kWh, which consists of

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