



How much solar energy does St Kitts use?

In St. Kitts and Nevis, the solar resource averages 5 kWh per square meter. Solar energy is already being used for grid-powered induction lighting and street lights along roadways. A 7 MW waste-to-energy power plant is planned to come online on St. Kitts in 2015.

Does St Kitts and Nevis have a national energy policy?

Yes, St. Kitts and Nevis has a National Energy Policy (NEP). The key provisions of this policy include connecting large-scale independent power providers and many distributed renewable energy systems to the electrical grid. Not all generation is made publically available; this chart provides known and referenceable data.

How much does electricity cost in St Kitts & Nevis?

The electricity rates in the Federation of St. Christopher (St. Kitts) and Nevis are \$0.26 per kilowatt-hour (kWh). This is lower than the Caribbean regional average of \$0.33/kWh.

How much energy is lost in St Kitts & Nevis?

Reports indicate that in St. Kitts and Nevis, higher losses are largely attributable to nontechnical losses such as unmetered consumption, leading to losses that are higher than the U.S. Energy Information Administration's average transmission and distribution loss of 6%. By comparison, the U.S. Energy Information Administration reports an average transmission and distribution loss of 6%.

What is the largest solar project in the Caribbean?

In September 2019, the Federal Government in collaboration with SKELEC signed an agreement with Leclanch&#233; SA- one of the world's leading energy storage companies based in Switzerland - to construct the largest solar generation and energy storage project in the Caribbean.

# SOLAR POWER STATION IN ST KITTS AND NEVIS



Swiss energy storage company Leclanch? has broken ground on a US\$70 million solar and storage microgrid project in St Kitts and Nevis. The system will include a 35.7MW solar farm and a 14.8MW



Leclanch?, Solrid, and MPC Energy Solutions began construction on a solar-plus-storage project in St. Kitts and Nevis. The project involves pairing a 35.6 MW solar PV farm with 44.2 MWh of lithium-ion battery storage. The project will provide SKELEC with about a third of the island's energy needs through a 20-year PPA. Source: Energy Storage [???



On successful completion of this fully integrated solar photovoltaic system and a lithium-ion battery energy storage system (BESS), the facility will supply Saint Kitts with 30% to 35% of consumers" annual electricity demand by utilizing sustainable and renewable solar energy with ZERO carbon emissions.

# SOLAR POWER STATION IN ST KITTS AND NEVIS



BASSETERRE, SAINT KITTS (Press Secretary):  
The Government of Saint Kitts and Nevis and the St. Kitts Electricity Company Ltd (SKELEC) have executed an Amended Power Purchase Agreement (PPA) with project developer SOLEC Power Ltd for the largest solar PV and battery energy storage project in the Caribbean.



On successful completion of this fully integrated solar photovoltaic system and a lithium-ion battery energy storage system (BESS), the facility will supply Saint Kitts with 30% to 35% of consumers' annual electricity demand by utilizing sustainable and renewable solar energy with ZERO carbon emissions.



St. Kitts & Nevis U.S. Department of Energy Energy Snapshot Population Size 52,441 Total Area Size 260 Sq. Kilometers Total GDP \$1.01 Billion Gross National Income (GNI) Per Capita \$18,340 Share of GDP Spent on Imports 58.8% Fuel Imports <1% Urban Population Percentage 30.8% Population and Economy Installed Capacity 66 MW St. Kitts 45.4 MW

# SOLAR POWER STATION IN ST KITTS AND NEVIS



A 35 MW solar PV farm, with 14.4 MW/44.2 MWh of battery storage will be constructed in the Basseterre Valley by the Swiss company, Leclanch?. The energy and the ancillary service provided by this plant will be sold to SKELEC. When completed, the project has the potential to supply 25-30 percent of the electricity supply to the island.



A 35 MW solar PV farm, with 14.4 MW/44.2 MWh of battery storage will be constructed in the Basseterre Valley by the Swiss company, Leclanch?. The energy and the ancillary service provided by this plant will be sold to SKELEC. ???



Government of St. Kitts and Nevis. Phone: 1 (869)-467-1466 Email: [energyunit@gov.kn](mailto:energyunit@gov.kn) Home; About Us. Minister's Message SKN Energy Practitioners Directory; News Articles; Policies; Acts; Other Documents; Solar City Simulator; Projects. Geothermal; Solar Powered Desalination Plant; North Star Wind Farm; SKELEC's Integrated Resource and



# SOLAR POWER STATION IN ST KITTS AND NEVIS



wind and solar resources, St. Kitts and Nevis has sufficient renewable energy resource potential to meet some or all of waste-to-energy power plant is slated to come online on St. Kitts in 2015. The main airport offsets 100% of its electricity with a 1 MW solar photovoltaic farm.



BASSETERRE, SAINT KITTS, November 29, 2023 (Press Secretary): The Government of Saint Kitts and Nevis and the St. Kitts Electricity Company Ltd (SKELEC) have executed an Amended Power Purchase Agreement (PPA) with project developer SOLEC Power Ltd for the largest solar PV and battery energy storage project in the Caribbean. The Project, ???



Upon completion, the St. Kitts project will be the largest solar generation and energy storage system in the Caribbean and a model for other island nations worldwide. In its first year of operation, the system will generate approximately 61,300 MWh of electricity with a 41,500 metric ton reduction of CO<sub>2</sub> emissions.

# SOLAR POWER STATION IN ST KITTS AND NEVIS



"The 35.6-megawatt solar energy plant and the 44.2 megawatt-hour battery storage facility will be built on 100 acres of crown land located in the Royal Basseterre Valley National Park utilising a lease ???



Construction has begun on a solar-plus-storage project on the Caribbean island of St. Kitts & Nevis, backed by Leclanch?, Solrid and MPC Energy Solutions. The launch of the SOLEC power plant is nearly 18 months ???



The batteries will be housed in 14 custom-designed enclosures near the main SKELEC power station and adjacent to the solar field. Additional equipment such as inverters, transformers and protection devices will ensure that Editor's Note: Illustrations of the St. Kitts and Nevis solar generation and energy storage project, as well as other

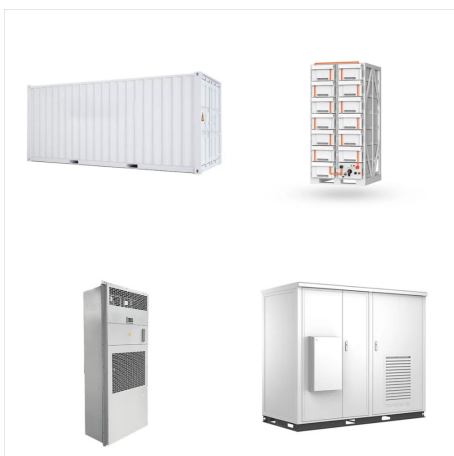
# SOLAR POWER STATION IN ST KITTS AND NEVIS



Basseterre, St. Kitts, June 16, 2022 (SKNIS): The Federation of St. Kitts and Nevis sets a best practice model as it will lead the way in renewable energy in the Caribbean with the construction of the largest Solar Farm and Battery Storage Facility.



Basseterre, St. Kitts, December 10, 2020 (SKNIS): The construction of the largest solar farm in the Caribbean, which is expected to be completed within 12-18 months in St. Kitts and Nevis, forms part of the Government's sustainable development agenda to contribute to the reduction of greenhouse gas emission and signals the country's



"The 35.6-megawatt solar energy plant and the 44.2 megawatt-hour battery storage facility will be built on 100 acres of crown land located in the Royal Basseterre Valley National Park utilising a lease agreement," said Prime Minister Harris.

# SOLAR POWER STATION IN ST KITTS AND NEVIS



The Honorable Ian Patches Liburd, St. Kitts and Nevis Minister of Public Infrastructure, Post, Urban Development and Transport, said: "We are set to embark on this vital solar+storage project as a key part of our renewable energy thrust that is critical to the future development of our country." The 35.6 MW solar energy plant and 44.2 MWh



On successful completion of this fully integrated solar photovoltaic system and a lithium-ion battery energy storage system (BESS), the facility will supply Saint Kitts with 30% to 35% of consumers' annual electricity ???



Ground has been broken on the St Kitts microgrid while negotiations and developments continue with the Nevis Geothermal project. The St Kitts facility to be comprised of 37.5MW solar PV and a 14.8MW/45.7MWh lithium-ion battery energy storage system is a major development for the nation and a landmark for the region.



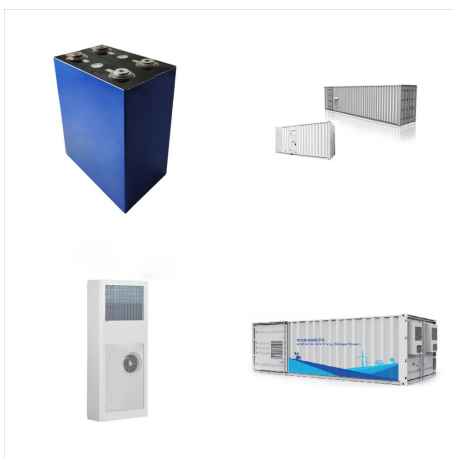
# SOLAR POWER STATION IN ST KITTS AND NEVIS



During his Budget Address 2020 Thursday, Prime Minister, Dr. the Honourable Timothy Harris, said the government of St. Kitts and Nevis, in collaboration with The St. Kitts Electricity Company Limited (SKELEC), will facilitate the construction of the largest solar generation and energy storage project in the Caribbean after signing an agreement with ???



Basseterre, St. Kitts, December 10, 2020 (SKNIS): The construction of the largest solar farm in the Caribbean, which is expected to be completed within 12-18 months in St. Kitts and Nevis, forms part of the ???



Basseterre, St. Kitts, June 16, 2022 (SKNIS): The Federation of St. Kitts and Nevis sets a best practice model as it will lead the way in renewable energy in the Caribbean with the construction of the largest Solar Farm and ???

# SOLAR POWER STATION IN ST KITTS AND NEVIS



Upon completion, the St. Kitts project will be the largest solar generation and energy storage system in the Caribbean and a model for other island nations worldwide. In its first year of operation, the system will generate ???



Once online, the solar-plus-storage system will operate under a 20-year power purchase agreement (PPA) with the state-owned St. Kitts Electric Company (SKELEC), charging a flat rate for the entire period.