

## SENEGAL

TECHNOLOGY	CAPACITY	LOAN SIZE	PROJECT NAME
Solar	2 MW	\$13 million	Promoting renewable energy for rural electrification

### PROJECT OUTLINE

This project is a rural electrification scheme that aims to electrify 100 villages located in isolated regions of Senegal using solar PV technology. This project supports the government’s national electrification program which aims to provide universal access to energy by 2025-2030. The project will power medium sized, remote villages using solar PV mini-plants which feed into mini-grids. The mini-grids include solar battery storage devices to provide power during the evenings.



### PROJECT IMPACTS

#### ACCESS TO ENERGY AND SERVICES

The rural electrification rate in Senegal was 29% in 2014. This project will electrify 100 rural villages, enhancing energy access for approximately 80,000 people. This project will provide a stable electricity source for critical services such as medical facilities and schools. Electrified health facilities will improve treatment of patients, enable better sanitation and permit longer storage of medicines.

#### SOCIO-ECONOMIC

Energy costs will be reduced by using solar technology instead of expensive imported fuels. This will enable productive machinery, such as water pumps and grain mills, to be used without consideration of high fuel costs. Providing electricity to households will also improve indoor air quality through the replacement of traditional fuels such as wood and charcoal whilst increasing the number of productive hours for families.

#### ENVIRONMENT

Overall the project will reduce CO<sub>2</sub> emissions by 3,200 tons per year. It will also contribute to lower rates of deforestation in the area as less traditional fuels are used.