California solar energy yemen

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Masdar has signed a joint cooperation agreement with Yemen"s Ministry of Electricity and Energy to build a 120 MW solar plant in Aden. It will be the country’s first large-scale renewable energy project.

Masdar, an Abu Dhabi-based renewables developer, is set to build a 120 MW solar plant in Yemen. The developer signed a joint cooperation agreement with Yemen"s Ministry of Electricity and Energy earlier this month. The deal includes the construction of transmission lines and transformer stations.

The solar project will be built in Aden. The 120 MW plant will be the "first and the largest strategic project to generate electricity through clean and renewable energy" in Yemen, according to the Yemeni Energy Minister Manea bin Yameen.

The ministry has reportedly started conducting surveys for the project. It did not reveal the project completion date or any other details, but it noted that the solar plant will reduce the cost of electricity generation during the daytime and contribute to lowering Yemen"s carbon footprint.

According to the International Renewable Energy Agency (IRENA), Yemen"s cumulative renewable capacity was 253 MW at the end of 2021, all from solar. Reports from local NGOs and the Ministry of Electricity and Energy put the country"s total installed solar capacity between 300 MW and 400 MW in 2018. Rooftop PV and small-scale solar applications like water pumps are expected to account for all the installed capacity.

According to a recent paper by Berlin-based Energy Access and Development Program (EADP), solar become the main source of energy for Yemeni households after 2016 - two years after the start of its ongoing civil war. EADP said that 75% of the urban population and 50% of the rural population in Yemen have access to solar energy.

A United Nations Development Programme (UNDP) Yemen project that works to help resolve these issues has been awarded the prestigious Ashden Award for Humanitarian Energy. The UNDP-managed joint project, the Enhanced Rural Resilience in Yemen (ERRY), has been recognized as one of the world"s most practical

and scalable low carbon innovators and was among 11 winners selected from over 200 global applications in the areas of creating resilience, green growth, and fairer societies.

The UNDP-ERRY project has intervened in three frontline communities of the conflict in Hajjah and Lahj to address access to affordable energy for Yemen"s most vulnerable population while also economically empowering women and youth to help support their families. The project designed and developed a unique, low-cost solar microgrid solution that uses our 3x6 approach for longer term sustainability.1

The solar microgrids offer an alternative, clean and renewable energy source that allows rural homes the ability to afford undisrupted electricity for hours. They also provide a solution and hope for communities that may have little else.

The tremendous increase in fuel prices and Yemen"s frequently failed public electricity grid have left citizens with few options: they can install individual solar systems in their homes or subscribe to a private diesel-powered energy grid. Both options are expensive and renewable energy is too costly for many Yemenis. No matter the option, the cost adds significant financial burdens to already financially stressed homes.

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