



School energy storage vientiane

Trina Solar has completed an off-grid PV power generation project to energize a newly built vocational training school in Pak Ngum, Laos. The project is sponsored by the Overseas Chinese Charity Foundation Of China (OCCFC) and Trina has supplied a total solution, covering engineering, procurement and construction management, as well as partial financial support.

The school is located in a rural area some 50km from Vientiane City and covers 1000 square meters, with a total of 9 classrooms able to accommodate 160 students. The local power infrastructure is underdeveloped and, according to power outage announcements, blackouts are frequent, often up to three times a week. The project has provided a solution to the school"s power shortage problem and was essential to its construction phase.

The Trina Solar APBU team customized the 50kW photovoltaic solution with a 200kWh energy storage system. The system installed in the schoolyard can generate 225 kWh of electricity per day, meeting the school"s basic power demands.

Simon Li, President and General Manager of Trina"s Asia Pacific Business Unit (APBU) commented: "Due to Laos" inadequate power infrastructure, some rural areas still lack access to stable electricity. This project not only provides such stability but, as importantly, students can also learn the concept of sustainability and experience how life is improved by advanced photovoltaic technology."

The project is part of the "Green benefits - Mekong-Lancang Cooperation (MLC) photovoltaic off-grid power generation project" sponsored by Overseas Chinese Charity Foundation Of China (OCCFC), where Trina Solar provides a total solution covering engineering, procurement, and construction management, as well as partial financial support to contribute to the countries" power development in the Mekong-Lancang region.

The vocational training school is located in Pak-Ngum, a rural area that is 50km away from Vientiane City, Laos. The area of the school is 1000 square meters including a total of 9 classrooms, which can accommodate 160 students. The power infrastructure in the region of the school is underdeveloped. According to the local power outage announcement, blackouts regularly occur two or three times a week. The project provided a solution to the school's power shortage problem and was essential to the school's construction phase.

APBU team of Trina Solar customized the solution of the 50kW photovoltaic system with a 200kWh energy storage system. The system installed in the schoolyard can generate 225 kWh of electrical energy per day, meeting the basic power demand of the school.

Simon Li, President and General Manager of Asia Pacific Business Unit (APBU) of Trina Solar said, "due to inadequate power infrastructure in Laos, some rural areas still lackaccess to stable electricity. This project not



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only transmits stable electricity to the school in rural Laos, but more importantly, students can also learn the concept of sustainability and experience how life is improved by advanced photovoltaic technology. Trina solar carries the mission of promoting sustainability and green life to the world, hoping to use solar energy to benefit all humanity.

Poppy-replacement plantations line the winding road through the mountains of the Golden Triangle to CSG"s Nam Tha 1 hydropower plant, 350 kilometers north of Vientiane. Completed in 2018 with an installed capacity of 168 MW, its annual generation is expected to reach 720 GWh while providing green power to more than 2 million people in the border regions of Thailand, Myanmar and Laos.

The plant is the first overseas build-operate-transfer hydropower project by CSG under the framework of the China-proposed Belt and Road Initiative. Construction of the plant has brought reliable road access to the villages around Hadnam, the center of CSG operations in the area.

"I came to teach here in 2003 when there were no permanent buildings and no running water," says Ounkham Phikchaphon, 37, principal of Hadnam School. "The new school building is a great learning environment. We hope to build a high school soon."

"My old classroom had earthen walls and a thatched roof that would leak when it rained. I"m very grateful for this schoolhouse. It"s much better than before," says Namlin Sidthideth, a junior middle school student in the Hadnam China-Laos Friendship School.

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