

Toshiba Energy Systems & Solutions Corporation
March 30, 2020

**Toshiba and TSE signed the Construction Agreement for Mega Solar Project
“Onikoube Solar Power Plant” in Miyagi Prefecture**

- *A good match between TSE and Toshiba to build one of the largest solar power plants in Japan*

Kawasaki, Japan—Toshiba Energy Systems & Solutions Corporation (Toshiba ESS) today announces that it received an EPC*1 services order for construction of Onikoube Solar Power Plant, in the city of Osaki in Miyagi Prefecture, North East Japan. The plant is being planned by project owner PurpleSol G.K., an affiliate of Thai Solar Energy Public Company Limited (“TSE”) which is one of the Thailand’s leading renewable energy companies. This large-scale solar power plant will have generating capacity of 147 MW which is the largest EPC order received by Toshiba ESS thus far. The plant is scheduled to go into operation in December 2022.

Onikoube Solar Power Plant is planned for construction on a 156-hectare site of an abandoned golf course. The construction plan contains several special construction expertise such as, the frames will be placed closer together than in conventional plant designs and the solar panels will be installed at a steeper angle, which enable to install 362,960 solar panels in the area. The plant will also achieve high-efficiency power generation with design and construction that accommodate for the slope of the ground and the snowfall in the area.

Koji Saito, Senior Vice President of Grid Aggregation Div. at Toshiba ESS said, “We have rich experience of designing and construction of large-scale solar power generation facilities, which is the top share of any company in Japan^{*2}. Based on this track record I am confident that our technological and workmanship capabilities will make a big contribution to the construction of this plant.”

TSE has been operating renewable energies and focusing on development and investment of utility scale PV plants in Thailand for decades. TSE has started its business in Japan since 2014, and expanded into bigger scale projects afterward. Lately, TSE decided to invest in a mega solar project “Onikoube Solar Power Plant” in Miyagi Prefecture with a total investment of 35.5 billion yens. This mega project will allow world-renowned energy and specialized energy companies to collaborate on the project.

Toshiba ESS provides power generation systems and solutions in wide variety of renewable energy types, from solar power to hydroelectricity, geothermal and wind-generated power, and more. Going forward, we will continue constructing more industrial-use solar power plants and engaging in many

different types of clean energy projects as we help create societies that generate sustainable innovation.

Note 1: EPC stands for Engineering, Procurement and Construction

Note 2: Based on Toshiba ESS research (as of March 30, 2020)

Power plant overview



Name of project	Onikoube Solar Power Plant
Owner	PurpleSol G.K.
Location	15-1 Kamurodake, Naruko-Onsen Onikoube, Osaki-city, Miyagi Prefecture
Area of project site	Approximately 156 hectares
Solar power generation capacity	Approximately 147 MW
Planned start date of operation	December 2022