Ankara renewable energy storage

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Recently, Turkey's Progresiva Energy Investments company signed an agreement with Harbin Electric International Engineering Co., Ltd. (HEI), a Chinese power plant equipment manufacturer, for the construction and financing of power storage facilities and wind farms.

Turkish Vice President Fuat Oktay said at a ceremony in Ankara that the project will include Europe's largest energy storage facility with a total investment of $600 million. Oktay said the initial phase of investment has reached $375 million. About $300 million will be obtained from China through Harbin's company, and the remaining part will be financed by Progresiva through equity financing.

Although there are not many battery energy storage systems deployed in Turkey at present, with the determination for energy transition, the demand for renewable energy construction and energy storage facilities is expected to continue in the long run. Against this backdrop, the overseas expansion progress of Chinese companies in 2024 may be further accelerated.

Asunim is set to build 42 MW of solar at two sites, paired with existing wind farms in Turkey. The Turkish developer claims that the two projects will achieve a significantly lower levelized cost of energy.

Asunim, an Ankara-based renewable energy developer, has revealed plans to build two solar parks in Turkey, close to two existing wind farms owned by Sancak Energy.

“There is a regulation introduced by the Turkish government in June 2021 which allows combining any energy production source with a secondary source which can be wind or solar,” a company spokesperson told pv magazine. “The target here is to take advantage of the secondary source when there is no possibility to produce electricity from the primary source.”

“For example, if you have a wind power plant of 100 MW, you can build a solar power plant of up to 100 MW,” the spokesperson said. “The solar facility will come into operation when the wind plant can not supply 100 MW AC at that moment so the solar park will fill the gap between the cap which is 100 MW and the actual production.”

Asunim will connect a 26 MW solar power plant with the 103.2 MW Ba?lar wind farm, which went online in 2018, and a 16 MW solar array with the 52.8 MW Yahyal? Eolic power plant, which started generating electricity in 2015.

"Sancak Energy has shown us its full confidence in all processes of the project, from engineering to design, from procurement to installation, from construction and commissioning to long-term operation and maintenance,” the company said. “In this project type, which we call full EPC, we will manage

the whole process. In this sense, we are breaking new ground for wind-solar hybrid projects in Turkey."

The company said the the main challenge will be the application of its HPPC (Hybrid Power Plant Controller) software, which calculates how much solar should be produced. It also measures the reactive power and balance between solar and wind, as well as the harmonics.

“This is quite a complex job to do and Asunim already has the know-how from previous projects such as Juba project which is located in South Sudan and combines solar with fossil fuel gen-sets,” the spokesperson said.

Another challenge is provided by the irregular terrains where the wind power plants are located.

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