Riga thermal energy storage

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Project 4.3.1.0/18/A/021 named "Creation of a heat storage system at CHPP-2, generating facility of Latvenergo AS" is implemented with co-funding of the European Union Cohesion Fund. The total project expenses amounted to EUR 9,045,041.85 million, with EUR 8,544,841.85 being eligible costs. The intended Cohesion Fund co-funding is 30% of eligible costs without exceeding EUR 2,563,452.55.

In 2019, it is planned to carry out a pre-feasibility study (including geological investigation and topographic surveys), development of the construction project, coordination of the construction project with the state authorities and start construction of the foundations for the heat storage tank.

19.02.2020Construction works are being performed in the project "Creation of a heat storage system at CHPP-2, generating facility of Latvenergo AS". The foundations were laid in autumn 2019, and in January 2020 the construction of the roof of the heat storage tank started. Walls are being built in February.

The storage tank construction technology provides for lifting of the tank roof built on the construction site using jacks to build the tank wall belt under it. After the creation of each tank wall belt the structure will be lifted using jacks and built into the next tank wall belt until the designed storage tank height of 47.8 metres is reached. In parallel, the construction of foundations of the flyover for engineering utilities (pipelines, electric cables, communication cables) is ongoing.

New large-capacity heat storage projects with storage units with capacity up to 50,000 m? have been installed and are planned to be installed in Europe in recent years. For example, about 12 heat storage tanks with capacity over 20 thousand m? were installed in Germany in 2017.

Adjustment and testing of the heat storage system was planned for December 2020 - beginning of 2021, because deliveries of equipment from European manufacturers intended for the construction of the heat storage system have been delayed due to the spread of COVID-19. The CHPP-2 heat storage system is planned to be commissioned in February 2020.

The constructed heat storage system makes it possible to separate generation of heat and electricity, thus increasing flexibility of operations of CHPP-2 and the possibilities to better adapt operating modes in accordance with changes in electricity market conditions.

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