



East Renewable AB

Construction update on Syvash Wind Farm

30 August 2019



*Winner of Bronze
Award Sustainable
Energy from the EBRD
Sustainability Awards
2019*

Construction progress

Syvash 246MW Wind Farm



Key project details

Sponsors

Total Eren / NBT

Capacity

245.7MW

EPC contractor

PowerChina

Project name

SyvashEnergProm

Procurement

Turn-key EPC

Owners engineer

Wood Group

Overall summary

- Main milestone for the project is to have all of Segment 1's 34 wind turbines installed by 15 Dec 2019 to secure 10% higher feed-in tariff. This is the base case and all resources are being devoted to meet this milestone.
- EPC Contractor has recently signed a subcontract for 2nd civil subcontractor to build 10 foundations before the end of 2019 as part of Accelerated Project Plan, 5 for Segment 1 and 5 for Segment 2.
- A number of bottlenecks has been identified and the project team is working to streamline processes
- NBT is putting all its attention and resources to support the project and all the relevant parties to achieve the main milestone at end of this year

Progress of activities

- Most of the construction related activity is still below ground. The construction area is currently around 15km wide (Segment 1); total size will be 24km (Segment 1+2)
- Two foundations have been poured; third foundation is being poured on 30 August and another one is awaited to be poured on 31 August. Ten foundations are expected to be poured in September
- Two new met masts have been delivered and are in process of being installed
- 2 out of 18km of permanent roads have been built. Furthermore, 5.2km of temporary roads have been built.
- Construction of the site compound is delayed. The office building is expected to be ready in early September. The living quarters will be ready in middle of October.
- 3 crane pads have been excavated
- First turbine deliveries are expected on 18 September
- Current program has limited float

Note: 1) BOP = Balance of plants, refers to everything but the wind turbines related to the wind farm
Timeline is a high-level illustration of milestones and progress towards the project is expected to come on line in June 2020

Other project highlights

Health & Safety:

1. Positive dynamics - no incidents.
2. There is high focus on HSE, but performance still not to required standard

Environmental & Social

1. Preparation for the autumn bird migration survey is in progress, where local interest organizations are invited to participate as well.
2. An accelerated CSR programme has been agreed upon by the Sponsors and have been implemented.
3. The Sponsors' quarterly E&S audits are ongoing.

Financial Progress

1. The spend profile is lower than estimated in the financial model, mainly due to delayed implementation. Will increase as the accelerated schedule progresses
2. Lenders technical advisor Mott Macdonal will carry out a site visit early September.

Civil Construction

1. Additional sub-contractors hired to accelerate road construction, foundations and hardstands
2. Approx. 130 trucks coming onsite with gravel material every day equivalent to 3.200 tons of raw material every day
3. 430 cubic meters of concrete per foundation – around 54 truck loads; concrete pouring takes around 8 hours in a continuous flow using 5-7 cement trucks for the foundations nearest to the concrete batching plant
4. Second smaller concrete batching plant is in operation and third concrete batching plant is awaiting to be assembled.

Site photos

ER
AB

WTG 47 curing treatment
27 Aug 2019



WTG 42 reinforcement
27 Aug 2019



Access Road 02
27 Aug 2019



Road 03 and Crane pad WTG 31
27 Aug 2019



Oil tank Sub-station
27 Aug 2019



Met mast 01 Erection
24 Aug 2019





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