

The background of the entire page is a soft-focus, light-colored image of tall grasses or reeds, creating a natural and green aesthetic.

BULGANA

GREEN POWER HUB

Construction Update

ISSUE N°10

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Terminology:

The scope of works includes 220kV Terminal Station and Interface, 33kV Substation, 15km overhead 33kV line, two (2) 220 /33kV TXs, Battery Energy Storage System (BESS) as well as fifty-six (56) WTGs configured in four (4) Collector Groups (CGs).

#8 : BU 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 & 11;

#8 BU 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 25 & 26

#8 BU 29, 30, 31, 32, 33, 34, 35, 36, 37, 49, 50, 51, 52 & 53

#8 BU 40, 41, 42, 43, 44, 54, 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66 & 67

The Project is also split into groups of activities:

u o @ Including civil and electrical installation

h (Civil Balance of Plant) including internal roads, Crane Hardstand areas and foundations

- h (Electrical Balance of Plant) including all electrical works to be prepared before WTGs can be energized (Cable trenches, Substation electrical installation, earthing circuits, etc.) and the Battery Energy Storage System (BESS)

‡ u 8 (‡ u8 including shipping, transport to site, installation and commissioning.

Progress detail

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- Terminal Station is complete and energized
- Substation 33kV switch board interface also energized

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- Internal Roads 100% complete
- Crane hardstand areas 91% complete
- WTG foundations 94% complete
- Backfill & grout 81% complete
- O&M Building 46% complete
- External local road maintenance in progress;

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- 33kV Cable delivery & installation in progress 63% complete
- Control Room construction (on site) in progress 85% complete
- Switchyard in progress 94 % complete
- BESS manufacture and transport in progress
- Harmonic Filters manufacture in progress

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- Manufacturing Status (complete):
 - o Tower (sets) 34/56 complete
 - o Nacelles 56/56 complete
 - o Drive trains 56/56 complete
 - o Hubs 56/56 complete
 - o Blade (sets) 54/56 complete
 - o Elevators 56/56 complete
 - o Switchgear 56/56 complete
- Shipping Status (complete):
 - o Blade shipments 3/5 complete
 - o Tower shipments 2/2 complete
 - o Nacelle, Drive train & Hub shipments 2/3 complete
- Delivery, Installation, Commissioning & Testing (complete):
 - o Delivery 7/56 complete
 - o Pre-Assembly 14/56 complete
 - o Final Assembly 4/56 complete
 - o Mechanical & Electrical Completion 0/56 complete

Figure 1 – Final Assembly of BU01 (left) and BU02 (right)



Figure 2 – WTG Installation progress

Figure 3 – Terminal and Substation Progress



Figure 4 – Overhead Gantry and Droppers Progress



Figure 5 – BESS Bench Preparation