
From:
Sent: 06 July 2022 12:51
To: Nick Hirst

Subject: Re: Low Farm consultation responses

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Hi Nick,

The key point on whether the Low Farm installation can generate 49.9MWe is down to the control philosophy outlining how the installation is to be controlled.

The site as you know has an export limit of 49.9MW and this is controlled using a Power Plant Controller (PPC) integrated within the PV SCADA system. The SCADA system (supervisory control and data acquisition) integrates all the PV plant output signals from the electrical components as well as the weather station outputs. The PPC is able to control and limit the output of individual inverters and the level of active power injected into the grid at the point of connection. The PPC works by reading signals at the point of interconnection and then sending orders (active and reactive setpoints) to all inverters as well as connection/disconnection orders to capacity banks if they are

present in the PV plant. The inverters will then perform their own controls to follow the master PPC orders. A PPC implements a closed-loop control in real-time allowing to send fast and refreshed commands to the inverters in order to achieve the setpoints. The plant operator as well as the system operator can send setpoints and enable or disable controls by means of the PV SCADA and substation remote terminal unit (RTU).

Like the PV panels and modules themselves we don't know at this stage the electrical rating until the procurement process is complete, which won't happen until the planning application is determined. However, we do have a ready reckoner by looking at the control processes proposed. The site proposes string inverters, the max AC power of will each being approximately 185kW (based on aHuawei SUN2000 185KTL string inverter), the exact rating being dependent on the model we procure. Based on the submitted application plans, there will be 270no. string inverters installed to meet the 49.9MW export capacity.

Kind regards,

Jack Spurway

Head of Planning

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