

Purchase Specification Document for ERD1-09-03 Energy independent farm

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Peer	Tom Bradshaw	17/12/2020	Verbal during meeting
Manager	Chris Mann	07/01/2021	

Quickbook codes

Project code	ERD1-09-03
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Overview

As part of the European Regional Development Funded project, the Energy Independent Farm, Bennamann are seeking to procure of a Methane powered generator. We are looking to power a system that will power a maximum of 35kW for approximately 12h see the figure attached for the predicted daily power demand. We are looking to supply as much power as possible through renewable sources, though we need this running constantly to provide the grid voltage for the other inverters to run too. An ideal generator will be responsive to varying current demands as it will be run in conjunction with renewables.

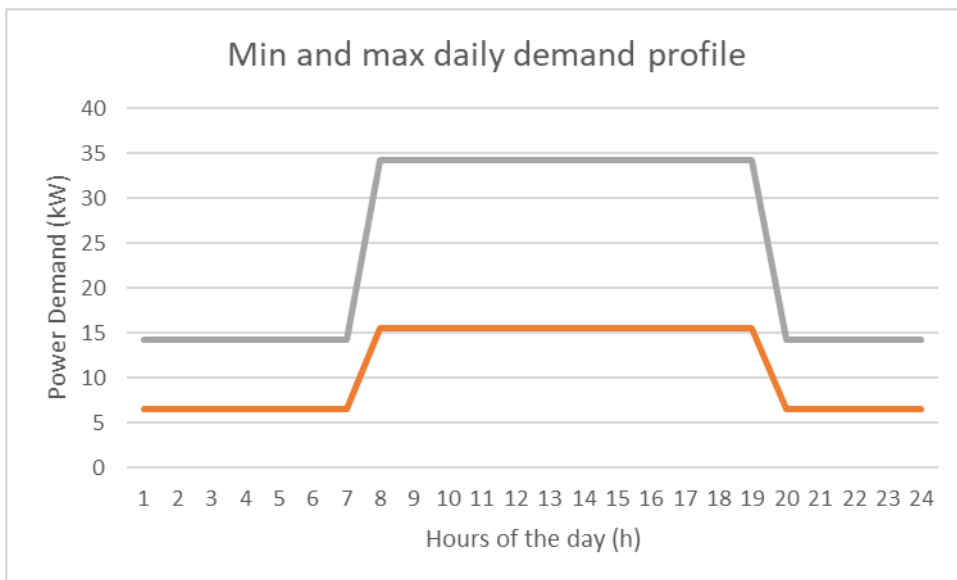


Figure 1: Daily demand profile of the grid.

Technical specification

Output:

Phase type: Three phase

Frequency: 50hz

Current type: AC

Voltage: 240V

Noise: <85db (desirable)

Deliverables

Fuel Usage at standby load.

Start-up power required. (not super critical but should be sensible for future work)