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

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Date: 07/01/2021

File Name:

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Sign-off:

|  |  |  |  |
| --- | --- | --- | --- |
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| **Peer** | **Mohammad Abusara** | **17/12/2020** | **Verbal during meeting** |
| **Peer** | **Katie Shanks** | **17/12/2020** | **Verbal during meeting** |
| **Peer** | **Tom Bradshaw** | **17/12/2020** | **Verbal during meeting** |
| **Manager** | **Chris Mann** | **07/01/2021** |  |

# Quickbook codes

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| --- | --- |
| **Project code** | ERD1-09-03 |

# 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.*

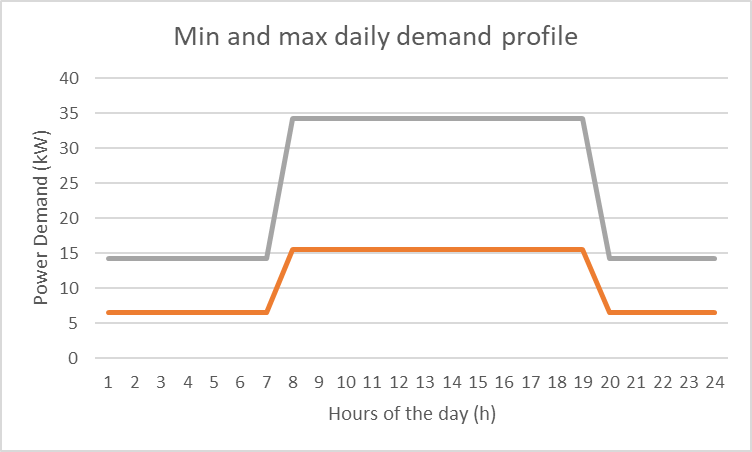


Figure 1: Daily demand profile of the grid.

# 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)*