

## NorDan UK: Sustainable Energy Generation - Installation of Solar PV



### KEY TAKEAWAYS:

Utilisation of available roof space on two buildings to harness renewable energy to supply the buildings.

#### Building 1:

- 114 solar panels for a combined output of 50.73 kW.
- Estimated Annual Energy Generation of 43,343 KWh.
- Solar PV ratings: 51.3
- Estimated Annual Self-consumption of 58%.
- Annual estimated bill reduction of £11,068.
- Annual Co2 savings of 11.5 tons equivalent to 88 Trees.
- Payback Period: 2 years and 5 months.

#### Building 2:

- 72 solar panels for a combined output of 32.04 kW
- Estimated Annual Energy Generation of 25,506 kWh.
- Solar PV ratings: 32.4
- Estimated Annual Self-consumption of 85%.
- Annual estimated bill reduction of £5,978.
- Annual Co2 savings of 6.5 tons equivalent to 49 Trees.
- Payback Period: 3 years and 10 months



### FACILITATING SUSTAINABLE ENERGY GENERATION FOR NORDAN UK

Looking to strive towards energy independence and environmental sustainability, NorDan tendered for solar PV installation with Kingsway Electrical chosen as the preferred installer.

One of the most immediate and tangible benefits of NorDan's solar PV installation is the reduction in carbon emissions associated with its manufacturing processes.

In the context of manufacturing, where processes like material processing, machinery operation, and climate control in factories require substantial energy input, the ability to offset this demand with solar power is particularly impactful. By reducing its dependency on grid electricity, which in the UK is still largely generated from fossil fuels especially during peak energy demand times, NorDan is significantly lowering the carbon intensity of its operations.

The environmental benefits of NorDan UK's solar PV systems extend beyond just carbon reduction. By generating its own electricity, the company is contributing to a broader cultural shift towards renewable energy, encouraging other businesses in the manufacturing sector to consider similar investments. This leadership in sustainability is crucial, as it sets a positive example and helps to drive industry-wide change.