100% RENEWABLE ENERGY 'MICROGRID'

The microgrid project has the potential to deliver 100% renewable electricity to Nissan and its neighbouring suppliers.

The first of its kind for the UK, the 100% renewable energy microgrid will bring together energy generation, consumption and storage at Nissan Sunderland Plant, and aims to utilise 100% renewable electricity to Nissan and nearby suppliers.

BACKGROUND

- The project is gathering pace and is set to deliver a first-of-its-kind, £130+ million infrastructure project bringing together energy generation, consumption and storage
- The plan includes smart energy management utilising battery storage system using second-life Nissan EV batteries
- Allows for a balance of local generated green energy and demand from National Grid
- Adopts existing wind and solar farm at Nissan Sunderland Plant, with plans to further grow renewables stock
- Has the capability of incorporating 200MW+ of local green energy generation
- The network will be facilitated by a large central energy centre comprising of three super transformers, linking to Nissan Sunderland Plant and its suppliers
- Green energy flow can be shared between connectees, minimising grid demand
- Accelerates Nissan's goal of carbon neutrality

100% RENEWABLE ENERGY 'MICROGRID' IN NUMBERS

- A £130 million infrastructure project, the first of its kind in the UK
- Incorporates existing 32MW wind and solar farms at Nissan Sunderland Plant
- Can accommodate local green energy growth of up 200MW of generation
- Incorporates battery storage systems, potentially using second life Nissan EV batteries
- At full maturity, will save an estimated 55,000 tonnes of carbon annually, across the three scopes of NMUK and AESC UK's greenhouse gas emissions