



# EV36 ZERO



**Entering a new era of electrification, Nissan extends its commitment to innovation and transformative change by daring to do what others don't.**

## **100% RENEWABLE ENERGY 'MICROGRID'**

A first of its kind for the UK, the 100% renewable energy microgrid will bring together energy generation, consumption and storage at Nissan Sunderland Plant.

### **BACKGROUND**

- Sunderland City Council led project to deliver 100% renewable electricity microgrid
- Created to provide clean electricity for Nissan and its suppliers
- A first-of-its-kind, £80 million project bringing together energy generation, consumption and storage
- Builds on existing wind and solar farm at Nissan Sunderland Plant
- 1 MW battery storage system using second life EV batteries
- Enable excess energy generated sunlight to be captured and utilised to balance demand on the National Grid
- Smart energy management enabled by a centralised energy centre
- Accelerates Nissan's goal of carbon neutrality

### **100% RENEWABLE ENERGY 'MICROGRID' IN NUMBERS**

- A **£80 million infrastructure project**, the first of its kind in the UK
- Incorporates existing **12.5MW wind and solar farms** at Nissan Sunderland Plant
- Creates an additional **10 solar energy systems**
- Totalling **132MW solar generation**, with direct connection to renewable energy from UK grid for 'firm' supply
- Creating **1 MW battery storage system** using second life Nissan EV batteries
- Will save **55,000 tonnes of carbon** per year