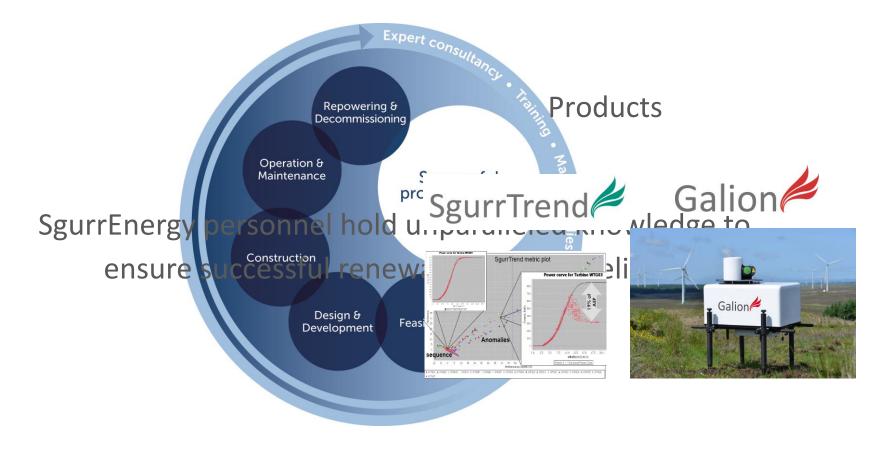


What do we do?







Wind

Offshore Wind

Wave & tidal

Solar

Bio-energy

Hydro















Renewable Energy Potential





- West coast of Scotland have some of the best potential for renewables in Europe
 - 36.5GW onshore wind
 - 7.5GW tidal (25% of Europe's potential)
 - 14GW wave (10% of Europe's potential)
 - Numerous small scale hydro opportunities
 - Bioenergy projects
- Renewable energy projects can revitalise local communities
 - Isle of Gigha
 - Assynt
 - Isle of Muck



Grid Constraints





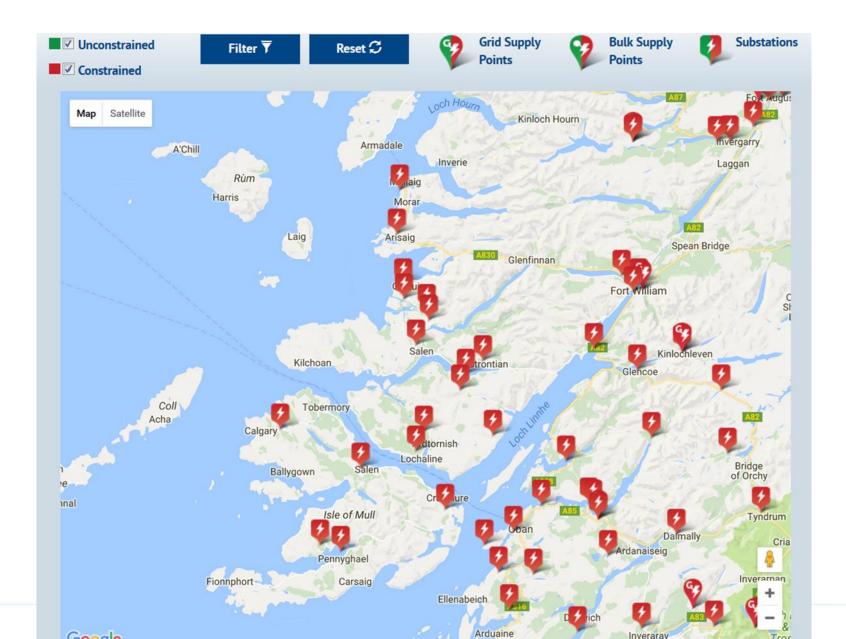




Grid Constraints









Case Study 1: Isle of Rum





- Island with fragile population (28)
- Not linked to the national grid
- Private wire to island properties
- 30kw & 15kw hydro generators
- Annual electricity consumption of 110,000 kWh
- Potential generation of 290,000 kWh







Case Study 2: MACC





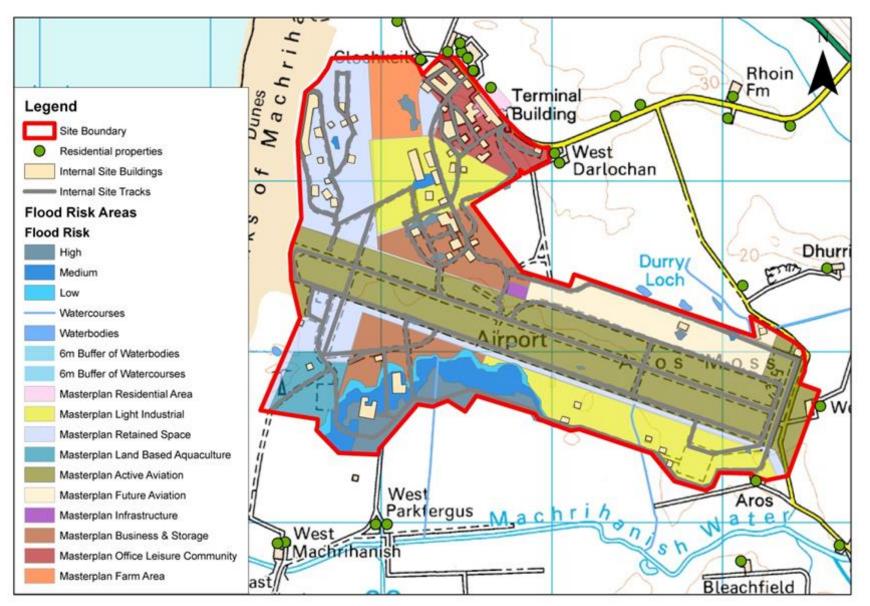
- Machrihanish Airbase acquired by the community in 2012
- 1000 acres of land suitable for development
- Strategic Masterplan Area and as a Strategic Industrial Business Location with emphasis on renewables



MACC Business Park Masterplan









Case Study 2: MACC





- Potential for over 20MW of solar photovoltaic capacity
- 50kw grid connection constraint until 2021
- Insufficient on-site demand to justify maximising renewable potential.
- Synergies with on shore aquaculture
- Co-located with MERL



