



**Distributed energy
technologies – delivering
sustainable, cost-effective
integrated energy services**

Distributed generation is seen by many electricity industry commentators as an emerging transformational energy technology.

IRL has accumulated more than six years' R&D experience in the development and evaluation of microscale distributed generation (DG) technologies and systems.

Expertise

- ▶ Systems – network interfacing and impacts of small scale renewables – wind, photovoltaics, hydro, CHP fuel cell systems, gensets, microgrids
- ▶ Components and products – inverter injection platform, supercapacitor storage, fuel cells, electrolyzers, remote logging.

Proven ability

- ▶ Rural community demonstration pilots – small scale renewables and fuel cell systems
- ▶ Development of a general purpose grid interactive inverter and smart electronic controls
- ▶ Consultancy projects.

Services

- ▶ Modelling of distributed energy scenarios
- ▶ Field trials, technology evaluation and assessment
- ▶ Smart product development.

Business background

Industrial Research Limited is a world-class science innovation company, with the New Zealand Government as the sole shareholder. Our leading-edge capabilities generate customer solutions and business opportunities with applications across a range of industry sectors. We conduct both public good and commercial R&D and, working with business partners, aim to establish high-value industries. We are based in Wellington, and also have research centres in Auckland and Christchurch.



A hilltop wind site with electrolyser hut.



Distributed generation wind turbine.

For all enquiries please contact the Industry Engagement team on 0508 CALL IRL (0508 225 5475). If calling from overseas phone +64 4 931 3000 or visit the *Contact Us* page on our website.

www.irl.cri.nz

Industrial Research Limited, 69 Gracefield Road, PO Box 31-310, Lower Hutt 5040, New Zealand