

## Kai Frolic MPhys (Hons), MInstP

### Qualifications:

Masters in Physics (Hons) 1<sup>st</sup> Class

Member of the Institute of Physics

### Experience:

Identified optimal site for a new meteorological radar in order to enable construction of a large onshore wind farm on a Scottish island (2012)

Enabled construction of Loeriesfontein Wind Farm, South Africa, by addressing radio interference concerns from Transnet Freight Rail (2013)

Enabled planning permission for Ireland's first solar farm by giving evidence regarding solar glint and glare to the planning inspector (2015)

Undertaken a range of technical assessments, surveys and meetings including:

- Aviation
- Aviation Lighting
- Electromagnetic Emissions
- Navigation Beacons
- Radar
- Radio Telescopes
- Shadow Flicker
- Solar Reflections
- Technical Mitigations
- Telecommunications

Worked on projects in:

- Australia
- Belgium
- Canada
- Colombia
- Finland
- France
- India
- Netherlands
- Republic of Ireland
- South Africa
- Sweden
- United Kingdom

Given technical presentations in:

- Amsterdam, Netherlands: International Energy Agency (2009)
- Cape Town, South Africa: South African Wind Energy Association (2011)
- Manchester, UK: University of Manchester Institute of Technology (2011)
- Copenhagen, Denmark: European Wind Energy Association (2015)
- Wachtberg, Germany: International Energy Agency, Topical Expert Meeting (2015)

### Research and Development

Addressed technical planning objections by developing tools for the following (2008-17):

- Buildings TV interference
- Radar coverage
- Secondary Surveillance Radar interference
- Shadow flicker
- Solar panel layout optimisation
- Targeted TV interference prediction
- Tidal effects on radio propagation
- Wind farms and broadband
- Wind farms radio telescopes