



Commercialisation of Research

Dr Peter Richardson

Dr Andrew Keane



“...focus upon the application of optimisation techniques to network issues, in order to not only identify and define problems but to propose solutions.”



- Under utilisation of wind resources
- Existing network not designed to accommodate renewable generation
- Maximum export capacity can be restricted
- Installed generation capacity not utilised
- Upgrading network
 - Costly
 - Regulatory/planning issues



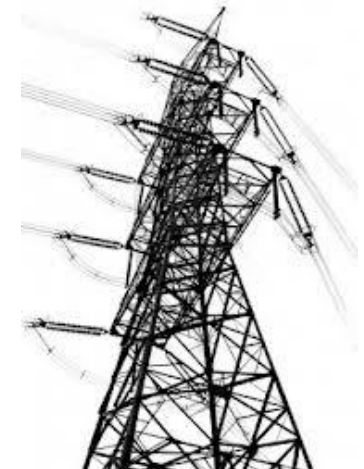
Image: askaboutireland.ie

- Smart operation of wind farms
 - Increase permissible maximum export capacity of wind farms
 - Reduce occurrence of constraint events
 - Real-time, autonomous control device
 - Free up restricted capacity at existing wind farms
 - Based on research conducted in the ERC
 - Benefits for wind farm owners, utilities, and wind turbine manufacturers



Further Development

- Provide a platform for other smart applications



Images: dansuich.com, carthrottle.com, eragy.com, 123rf.com



- UCD Office of the Vice-President for Innovation
 - Technology Transfer Support
 - Commercialisation Bootcamp



- Commercialisation workshop
 - NDRC Basic Research to Business Model



- Enterprise Ireland
 - Commercialisation Grants



- Commercial Case Feasibility Grant
 - 3 month study
 - Market analysis and validation
 - Commercial potential



- Independent consultant
- Meetings with various members of industry
- Market Research Centre
 - “World Class Market Research Reports”
- Development of application



Image: 123RF.com

- Enterprise Ireland Commercialisation Fund
 - Bring technology to market
 - Licensable within 2-5 years
 - Potential establishment of start-up company



Image: theuglycow.net



