

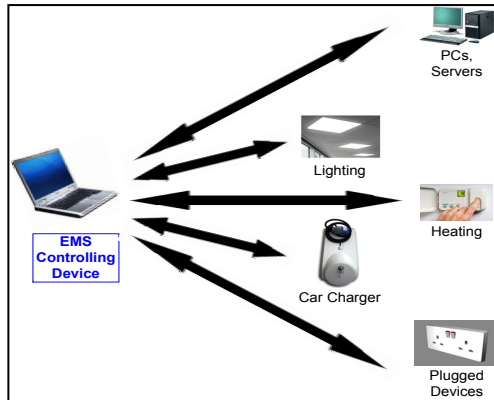
Background

With the wide range of changes taking place in the energy market, all sections of the market from producer to consumer will have to adapt. This requires all stakeholders to better understand the energy market and implement systems to maximise the efficiency of their available resources and reduce the amount of wasted energy.

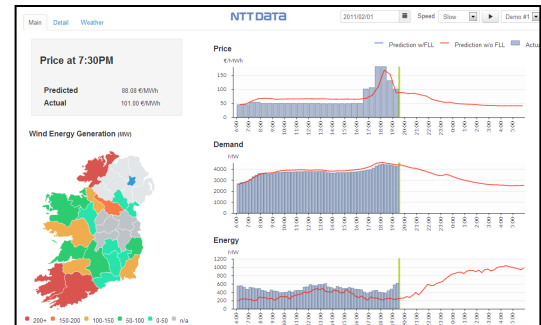
The TSSG R&D Centre has 17 years of experience in internationally recognised world-class research and in developing commercial products based on this research.

Current Projects

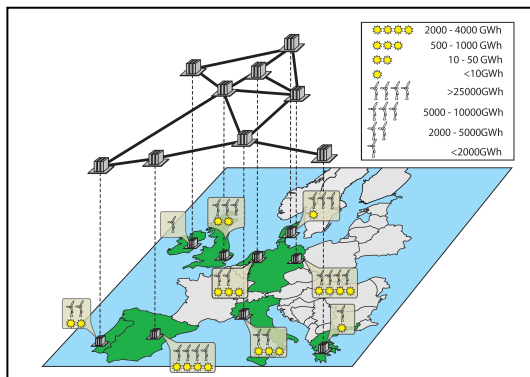
1. ASTRAL – A policy-based building energy management system, designed for real building use.



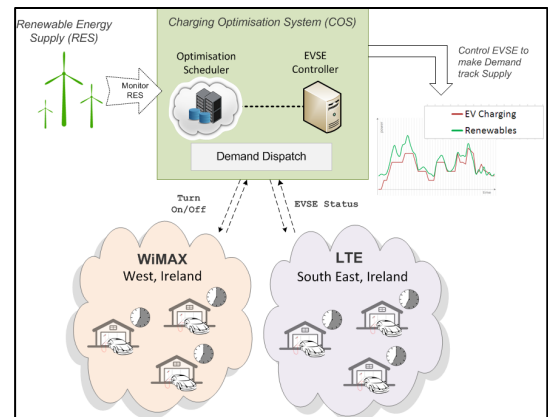
2. EMPATH – Prediction of Energy Demand, Wind Energy Supply and Price at every point for the next 24 hours.



3. ACTIVE GREEN DATA CENTRES – Improving use of Renewable Energy by 20-25% while decreasing the need for cooling for international Data Centres

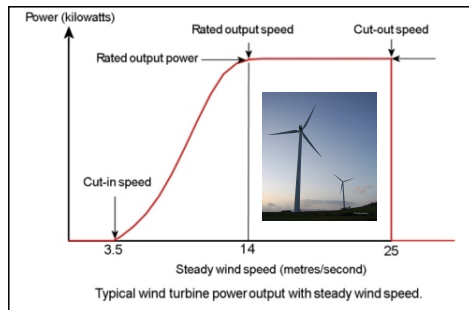


4. FINESCE – Developing an energy management system to control domestic EV charge-points to ensure that demand tracks the renewable energy supply.



Current Projects (contd.)

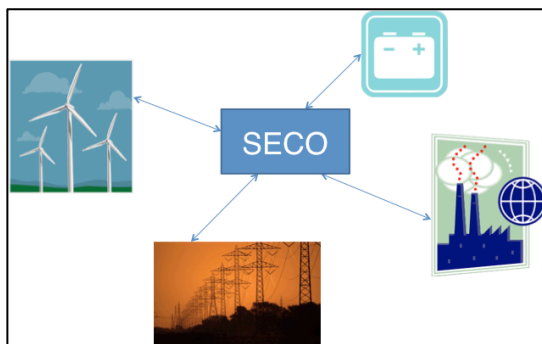
5. WIND TURBINES – Mapping wind speed to power output as a check on the performance over time.



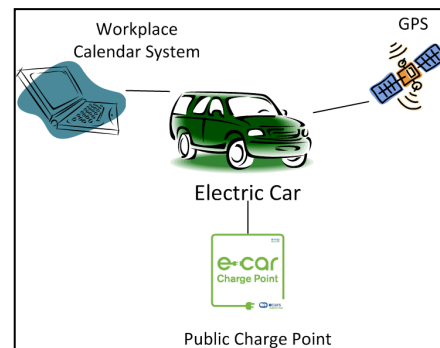
6. ELECTRIC VEHICLE CAR CHARGER MANAGEMENT – With Carra Ltd. Management of Public/Private Car Chargers and other Intelligent Transport Devices.



7. SMART ENERGY CLUSTER OPTIMISATION – Selecting the optimal electricity source from Grid, Micro-Generation, Storage and Generators.



8. ELECTRIC CAR ENERGY STORAGE – How to Use Electric Cars for off-grid energy storage.



Contact

For further information relating to TSSG’s energy initiatives, please contact:

Dr. Kevin Quinn/Mr. Jesse Kielthy, Energy Project Managers

Telecommunications Software and Systems Group

Waterford Institute of Technology

Tel: +353 (0)51 302973

Email: energy@tssg.org

Web: energy.tssg.org

WWW.TSSG.ORG

