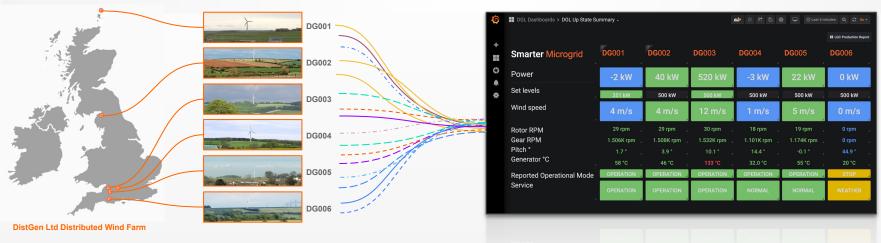




ES SCADA

Superior real time visualisation of your business' Key Performance Indicators (KPI)



Smart digitalisation, changing the way the energy business is done.

To get the best from your generating assets we believe you need to thoroughly exploit the wealth of information embedded in the monitoring data. We have utilised our decades of software development expertise and 14 years of renewable energy generation experience to produce a state of the art Smart Digitalisation system. Our Unified Management System provides a live digital visualisation and overview of the performance of your fleet so you have better control of your business.

ES-SCADA visualises the data, all of the useful data, and nothing but the useful data when the data is useful.

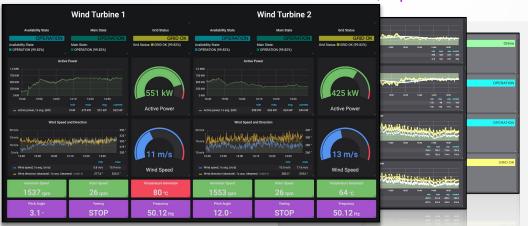
Our ES-SCADA software enables you to:

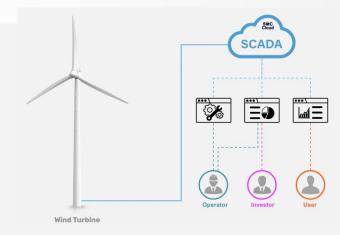
- Easily understand and interpret the mass of complex operational, generation, production and reliability data produced by your wind turbines and electrical infrastructure
- Continuously improve the utilisation and productivity of your generating assets
- Remotely manage your generating assets from anywhere
- Share a single Unified Management System across all the interested parties including owners, landlords, funders, operators, maintenance managers and technicians...and your mates at the bar and whoever else needs to know



ES SCADA

Dashboard, reports and alerts





ES-SCADA provides role based permissions

tailored set of dashboards, reports and alerts

and access levels so each user can have a

suited to their specific needs.

Dashboards



Our system, built on a powerful and flexible data visualisation platform (Grafana), allowing you to track your KPIs and so optimise your asset's performance. Production of new dashboards when requested or customisation of existing ones is easy and quick allowing you to track your KPIs

Reports



Generator performance (mechanical reliability, availability, power curve...)
Asset productivity (kWH, financials)
Resource reporting (wind speed, wind direction, turbulence...)

Alerts



Alerts actively inform you of error events so you can rapidly organise for them to be resolved and so minimise expensive generator outages - you can relax because you know what is going on at all times and can rely on the system to tell you when something different occurs

Smarter Microgrid





Superior real time monitoring and control of your generating assets

Built by a Wind Turbine (WT) operator for WT operators

- + The SCADA system was designed and built inhouse to address our specific requirements first
- + Made to help wind turbine operators take full advantage of the DEIF retrofit WT controller





Everything you need - no bloatware

- + ES-SCADA Basic is a lightweight package that provides all of the essential functionality 'out of the box'
- + Customisable to best match the needs of each individual user
- + A raft of 'concealed' functionality that can be configured for access when needed

Low Cost - High Function & High Quality

- + Performance scalability and functional extensibility to service the demanding needs of sophisticated/power users
- + Open standard Raspberry Pi hardware platform user can buy themselves
- + Super low cost integrated UPS allows you to keep monitoring the site even while the grid is down
- + ES-SCADA Basic dashboards, reports & alerts for 3 seats from £80 pm







Superior real time monitoring and control of your generating assets

Networking challenges overcome

One of the biggest challenges we have encountered was unreliable internet access in remote rural areas. In order to provide a reliable management system, we developed a SCADA system that can operate and provide reliable data networking in the most challenging environments:





High reliability monitoring

- Works well everywhere including locations with relatively poor mobile data coverage
- 'No LAN' 3G/4G GSM 'to the cloud' WAN multi turbine (windfarm) solution.
- Computer host hardware 'auto set up' and software updates delivered 'automagically 'Over-The-Air' from the cloud.
- WT control functionalities such as: Start, remote Stop & Restart are available through the same interface

Simple to install

- Plug&Play mobile data network setup & operation ('near zero' IT skills needed)
- Simple physical installation (at worst just two cables to plug in)
- Tiny form factor
- Negligible power consumption

