



Orchestration of Renewable Integrated Generation in Neighbourhoods

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D3.3 Weather Station Set Up

WP3- Installation and Commissioning of ICT infrastructure in data collection mode

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ORIGIN	WP3- Installation and Commissioning of ICT infrastructure in data collection mode
Deliverable	D3.3 Weather station set up at each site

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Note: The organisations are listed above using either their participant legal name or their participant short name. Three of these organisations represent communities and for the remainder of the report the name of the community is used to refer to the community rather than their legal name.

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1. Summary of Evidence

One of the deliverables of Work Package 3 (Installation and Commissioning of ICT infrastructure in data collection mode) of the ORIGIN project was to complete deliverable D3.3 – Weather station set up at each site .This has been achieved. Tamera’s weather station was installed in August 2013. The weather stations at Findhorn and Damanhur were installed later as it took longer to find suitable sites.

2. Tamera

Tamera's weather station installation is complete, and the station has been collecting data since August 2013. Cloud connection is functioning and data is being logged at ISA. The data consists of:

temperature

relative humidity

wind speed and direction

precipitation

total incident solar radiation

barometric pressure

This data can be accessed at <http://tamera-origin.isa.pt:8282/TameraWebSite/index.html#>
Installation is in Tamera's Solar Testfield and there is easy access for maintenance.



Figure 1 – Tamera weather station

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3. Findhorn Foundation

The Findhorn Foundation installed a weather station on the Guest lodge, building number 55 , in October 2013. This weather station has a datalogger with a communication interface, a temperature and relative humidity sensor with radiation shield, a precipitation sensor, a barometric pressure sensor and 2 wind speed and direction sensors. The sensors are wired to a control panel external to the building for ease of access. The weather station is currently being commissioned and the data collected from it will be gathered and presented in a similar fashion to the Tamera data via the ISA server.



Figure 2 – Findhorn weather station

4. Damanhur

Damanhur installed a weather station on Magilla in early November 2013. This weather station has a datalogger with a communication interface, a temperature and relative humidity sensor with radiation shield, a precipitation sensor, a barometric pressure sensor and 2 wind speed and direction sensors. The sensors are wired to a control panel which is situated in Magilla’s attic for ease of access. The weather station is currently being commissioned and the data collected from it will be gathered and presented in a similar fashion to the Tamera data.



Figure 3 – Damanhur weather station