

## Nationwide, IE – Improving Energy Efficiency in the Public Sector with SensorCIS M&R

**Time period:** November 2012 – July 2013  
(Support to continue until July 2016)

**Application:** Energy Efficiency, GHG reduction

**Theme of collaboration:** Modelling, planning, monitoring

**Topic:** Monitoring tools

### Description

SensorCIS M&R is the platform used by the Sustainable Energy Authority of Ireland (SEAI) to monitor and report on the energy usage of every public sector organisation in Ireland.

The M&R system is built on top of SensorCIS which is our platform for managing data from meters, sensors and other input sources. The SEAI chose this system because SensorCIS was very close to what they needed and could be easily customised to fit their requirements - a secure online web-based tool that allows public sector organisations to easily gather, manage and analyse their energy data.

Energy data can be recorded in SensorCIS as well as temperature, gas emissions, water usage, waste arisings, etc. The M&R system currently records fuel and energy usage & spend as well as data on each organisation's activity.

### Context / Background

The SEAI is committed to improving energy efficiency in the public sector in Ireland by 33% by the year 2020, as part of an EU directive. Conscious of the fact that before you can improve on something, you must first measure it – the SEAI required an effective, easy-to-use system that more than 400 public bodies across Ireland would readily accept.



SensorCIS M&R Logo

### Partners involved - Governance

- Ultan Technologies
- Sustainable Energy Authority of Ireland
- Department of Communications, Energy and Natural Resources

### Key results

The SEAI can now monitor and produce reports on the energy usage, spend and activity of every public body in Ireland.

## Financing & costs

The M&R system was created by making customisations to our pre-existing SensorCIS platform, meaning it could be quickly developed and implemented into public bodies across the country. Ultan Technologies funded the initial development of the product. The SEAI funded the licensing and customisation.

## Results achieved

The initiative has been a resounding success, with the result that 4,500 schools are currently being added to the system. This will add 10 times more users to the system, which will be another huge step in helping the SEAI to reach their energy efficiency improvement target of 33% by 2020.

Another encouraging trend has been the level of engagement from public bodies, with a very large percentage regularly checking and reporting on their energy usage.

One of the most noticeable outcomes has been the enthusiasm of the larger energy users, such as local authorities, colleges and state transport services, to use the system as a key tool in driving efficiencies in energy usage.

## Lessons learned & Success factors

From this initiative, we learned that effective communication and collaboration are imperative to ensuring a project of this magnitude can be successful. It was only through clear planning with the SEAI, along with extensive engagement with and training of the end user (public bodies) that this succeeded. Effective communication and training ensured there was little resistance to the implementation of the system, resulting in a smooth process from day one, and allowing us to roll the system out to 5,000 organisations this December.

### Budget range

|                              |
|------------------------------|
| < € 100,000                  |
| € 100,000 – € 1,000,000      |
| € 1,000,000 – € 10,000,000   |
| € 10,000,000 – € 100,000,000 |
| > € 100,000,000              |
| N/A                          |



### Similar Initiatives- Transferability

- See Best Practice: “Online Local Energy Balances tool”, Cyprus

### Contact

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