

## ENERGYHUB.IE

### Regional Energy Observatory Carlow Kilkenny [IE]

#### Key Achievements

- Providing technical support to local authorities (Carlow and Kilkenny) for developing and monitoring SEAPs
- Developed Baseline Emissions Inventory for Carlow and Kilkenny
- Agreement with local authorities for data exchanging on local authority buildings
- Launched [www.energyhub.ie](http://www.energyhub.ie) in autumn 2015

#### Context & Rationale

Carlow Kilkenny Energy Agency aims to “lead and support Co. Kilkenny & Co. Carlow and beyond to reduce its CO<sub>2</sub> emissions by stimulating and contributing to the implementation of best practice in the field of sustainable energy” ([www.ckeai.ie](http://www.ckeai.ie)). CKEA has extensive knowledge and experience in energy management, integration of renewable energies, feasibility studies, as well as other services in all sectors. The main capabilities of CKEA are: Sustainable Energy Service to Local Authorities, CO<sub>2</sub> accounting and reduction, Energy Efficiency Services for Public Buildings, Renewable Energy Development Service (wind, biomass, PV, Hydro etc.), Sustainable transport Promotion Service, and Energy Monitoring and Analysis Service.

The regional energy observatory was initially launched in the autumn of 2015, this launch was aligned with the signing of the Covenant of Mayors by both Carlow and Kilkenny County Councils. Both Counties have begun the implementation of their Sustainable Energy Action Plans in order to reach the 2020 targets.

**Dec.2015**

## Description



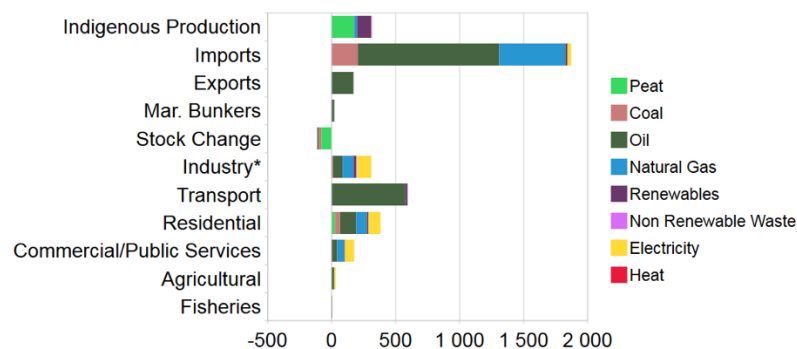
The regional energy observatory, [www.energyhub.ie](http://www.energyhub.ie), is collating energy consumption from domestic and commercial buildings. The energy data is monitoring performance and associated carbon dioxide emissions for the provision of space heating, ventilation, water heating and lighting under standardized operating conditions. This data is collected with a bottom-up approach. Local authority energy usage data is collected on an annual basis for all the council activities for the purpose of monitoring the implementation of the National Energy Action Plan.

Agriculture energy usage will be determined on the basis of usage at national level taken from SEAI's annual energy balance and apportioned according to the ratio of Carlow versus national farmed area (as per the Agricultural Census 2010). Detailed statistics on the transport sector in Carlow will be obtained from the CSO (Central Statistics Office) to establish a fairly accurate profile of the vehicle fleet in Carlow, the average number of km driven (or t.km for transport of goods) and average fuel usage per vehicle type.

The final energy demand will be the split between thermal energy use, electricity and transport for the main socioeconomic sectors. Energyhub.ie will be the tool used to create an implementation report at least every second year after submission of the Sustainable Energy Action Plan for evaluation, monitoring and verification purposes in accordance with the Covenant of Mayors protocols.

## Main Results

County Carlow Energy Consumption Profile, 2013 (GWh)



As the regional energy observatory was only recently launched, we have not yet achieved any tangible results. However, the observatory will

be the main driver in producing a biannual energy report after the initial submission of a SEAP. It is also anticipated that the bottom-up approach of collating energy data

from domestic and commercial buildings will produce a more accurate report on energy usage and GHG emissions.

## Lessons Learned & Success Factor

Energy efficiency is at the core of all energy related activities and the commitment by Carlow Kilkenny Energy Agency in collaboration with Carlow County Council and Kilkenny County Council. In doing so assisting in the reduction of energy related emissions in excess of 33% by 2020, will assist the Counties of Carlow and Kilkenny in being one of the most sustainable local regions in Ireland. These targets can be realised by utilising the tool [energyhub.ie](http://energyhub.ie), and by collecting energy data and identifying key indicators in promoting energy efficiency, reducing energy wastage and CO2 emissions. The DATA4ACTION EU funded project, has assisted CKEA in resourcing our regional energy observatory, as well as giving us the opportunity for peer learning with other Energy Agencies and Municipalities across Europe.

## Implementing Structure & Partners - Governance

As per one of the tasks associated with DATA4ACTION, a steering committee will be formed. The regional steering committee will include experts from energy data providers, public authorities, regional energy facilitators and an energy data expert.

## Financing and Costs / Time Frame

The costs of financing the Regional Energy Observatory are estimated to be approximately 1.5 full time employees.

[Energyhub.ie](http://Energyhub.ie) was initially launched in the autumn of 2015, however, there are some minor issues still being worked on, but it is expected to be fully functional in the coming weeks.

## Contacts & Links

Jonathan Griffin  
Mail: [jgriffin@ckeai.ie](mailto:jgriffin@ckeai.ie)

Observatory website: [www.energyhub.ie](http://www.energyhub.ie)