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Collaborating in energy data exchange

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12 Member States, 14 Partners
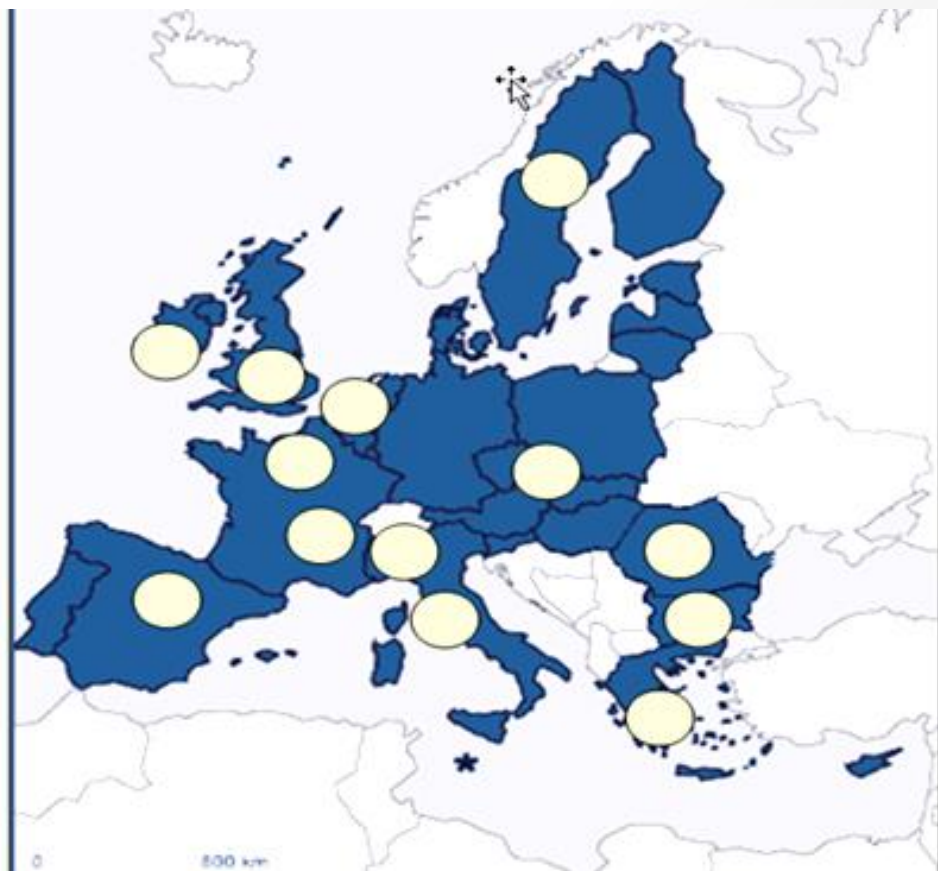
- Rhônalpénergie-Environnement - FR
- Kent County Council - UK
- Energetická Agentura Zlínského Kraje - CZ
- Infrastrutture Recupero Energia Agenzia Regionale Ligure - IT
- Conseil Régional Nord-Pas de Calais - FR
- Norrbottens Energikontor - SE
- Agentia Locala a Energiei Alba - RO
- Ente Vasco de la Energia – ES
- IHOBE - Spain
- Provincia di Torino - IT
- Energy Agency of Plovdiv - BG
- Carlow Kilkenny Energy Agency - IE
- Energy Environment Local Development SA - EL
- FEDARENE - BE

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Introduction -DATA4ACTION

▶ **IMPROVE** public authorities' access to energy data for a better design and monitoring of SEAPs;

▶ **MOBILIZE** public authorities and energy data providers in a win-win partnership;

▶ **FACILITATE** their collaboration through establishing or further developing Regional Energy Observatories;

▶ **DEMONSTRATE** energy data exchange collaboration models 'in action' in the twelve European partner regions;

▶ **SUPPORT** knowledge transfer and replication in other European regions.

Energy Data – Why do we need it?

▶ Energy data is crucial for identifying trends and priority sectors

▶ Gives measures to target in terms of energy efficiency improvement and transition towards renewable energy sources.

▶ Inscribed in the municipal and regional Sustainable Energy Action Plans (SEAPs)

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Energy Data

▶ Lacking at the local level;

▶ Issues with the quality of data;

▶ Issues regularity of data,

▶ Commercial sensitivity, data privacy,

DATA4ACTION aims to set up regional "one-stop-shop" centres for the exchange, collection and processing of local energy data.

Definition - Sustainable Energy Action Plans

▶ Written document which sets out how the area intends to achieve it's its reduction target by 2020;

▶ It uses the results of the Baseline Emission Inventory to identify the best fields of action and opportunities for reaching the local authority's CO_2 reduction target.

▶ It defines the activities and measures set up to achieve the targets, together with time frames and assigned responsibilities.

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Definition - Regional Energy Observatories

▶ Regional energy and GHG emissions Observatories are supporting structures assisting public authorities in gathering, assessing, processing and modelling energy data

▶ Established for better sustainable energy planning at regional and local levels.

▶ Design and implement win-win collaboration agreements with energy data suppliers

▶ **"one-stop-shop" data services** to public authorities within one geographical area therefore optimising the efforts in data gathering and processing data for SEAPs.

▶ Most Observatories are governed by a local consortium gathering at least several public authorities and energy data suppliers. Typically governed by a local consortium
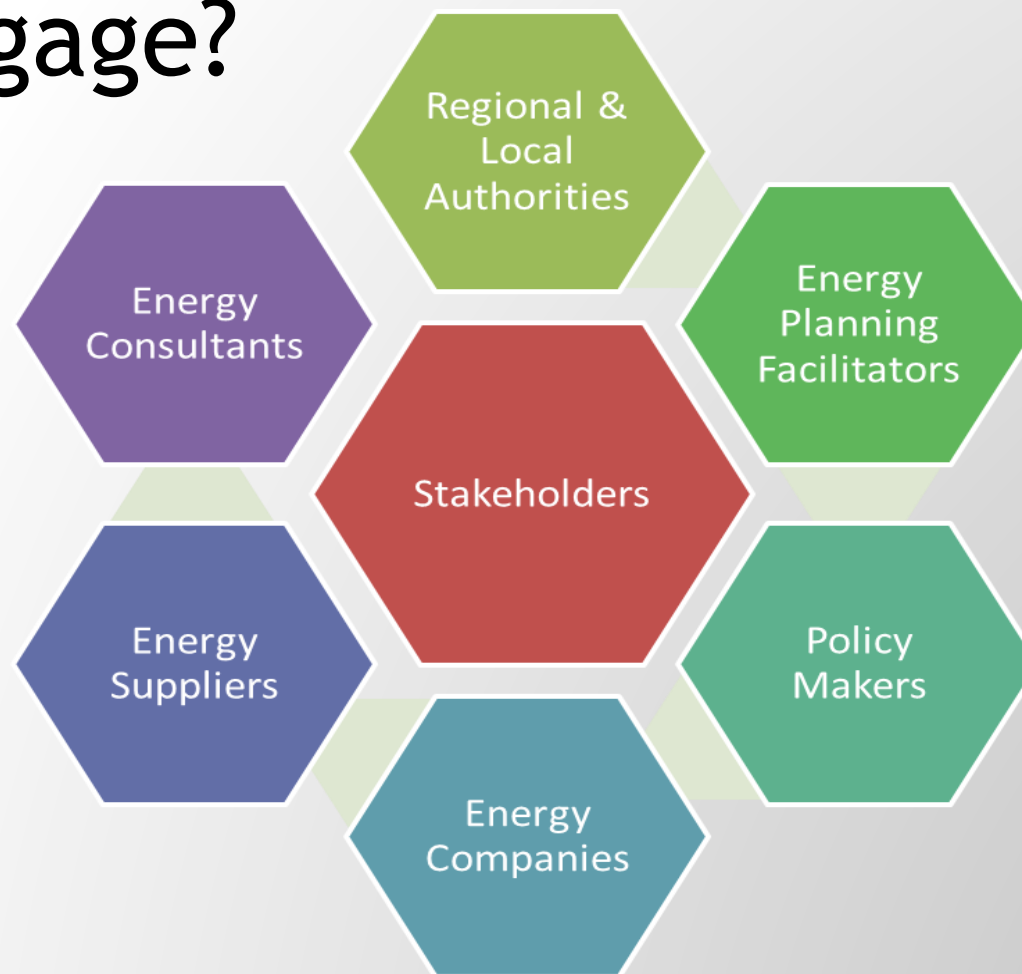
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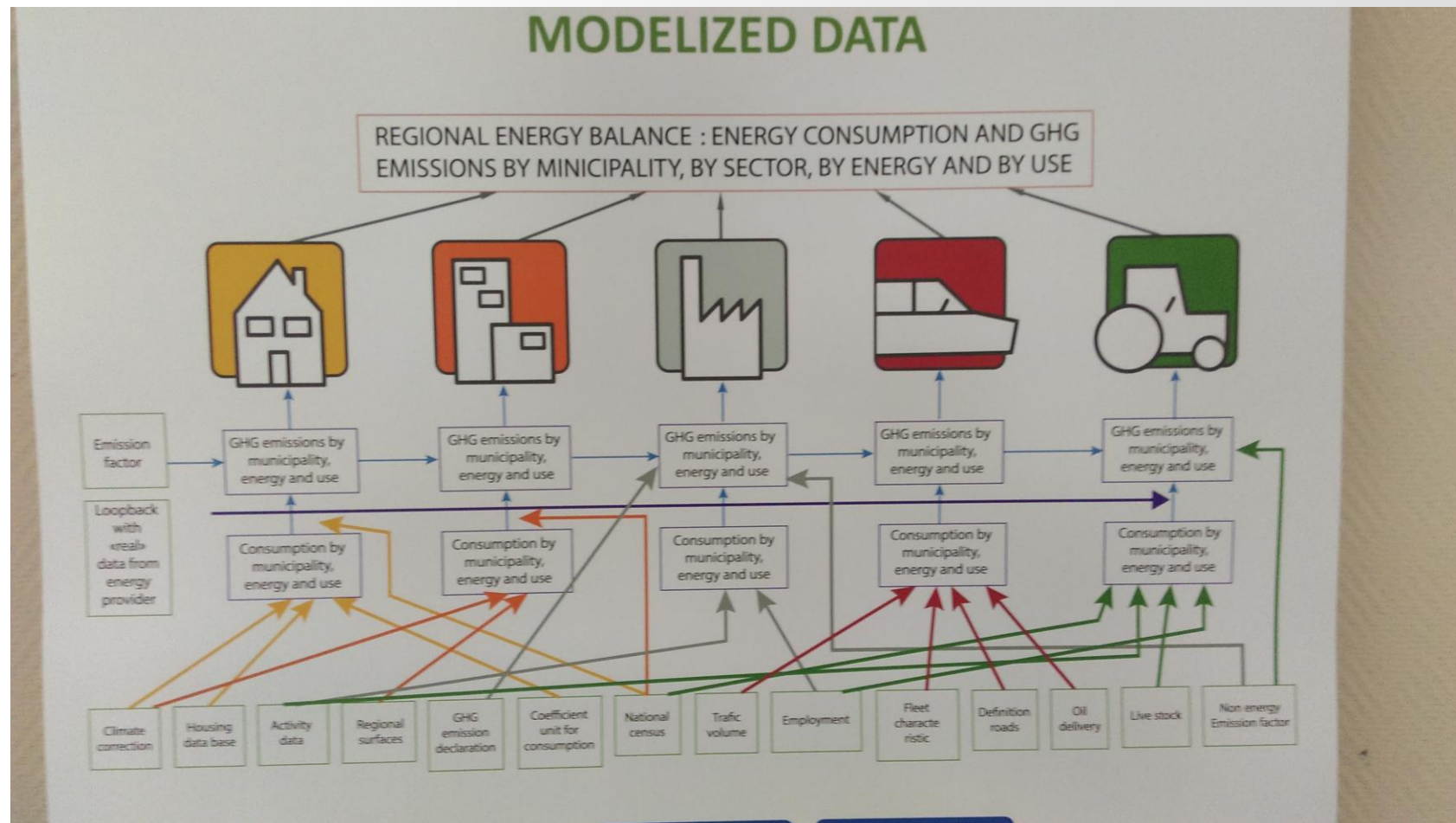
Regional Energy Observatory

Energy Data Provider 1

Energy Data Provider 2

Energy Data Provider 3

One-stop-shop data centre or Observatory

Municipality 1

Municipality 2

Municipality 3

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Who Can Engage?

Stakeholders:
- Regional & Local Authorities
- Energy Planning Facilitators
- Policy Makers
- Energy Companies
- Energy Suppliers
- Energy Consultants

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Data Model

Peer Learning –Nenet

► Held Skpye Call, 17th Febraury 2014

► Topic 1: Engaging/ specifying with technical solutions companies to provide a useable tool for our Regional Energy Observatory.

  ► CKEA had reviewed the other existing REOs and created a table of pros/cons;

  ► With regards to Nenets Energy Loupe, the platform they had in place offers a simple user friendly interface;

  ► Energy Loupe have two contractors at present, one for the front end "User Interface" and one for the backend "data";

  ► Nenet advised CKEA to have a clear target audience for the their REO; Nenet have local and regional authorities, as their target audiences;

Peer Learning –Nenet

- Topic 2: In setting up the REO, CKEA want to ensure that the end product is simple and effective – CKEA tend to run-away with our thoughts of what the tool can offer, so what is the best approach to manage our expectations of the tool.

  - Follow the Covenant of Mayors rules and work with the minimum requirements set out in this:
    - Energy Consumption by Sector & Energy Source
    - CO_2 or CO_2 equivalent
  - Can build from there with benchmarking as REO expands
  - Review regularly every year/ two years
  - Nenet advised that energy Loupe was only used by a select few – the benefit of the observatory needs to be supported by Political decisions and Energy Plans – write the Energy Observatories into the creation of emissions inventory/ monitoring if feasible.

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Peer Learning –Nenet

▶ CKEA obviously want to maximise our budget within this space – so would you advise more budget be orientated towards particular activities of the REO.

   ▶ Nenet advised that before CKEA start review tools on EU Market available as outlined by ICLEI at Bilboa

   ▶ Take it step by step – spend the internal time in developing the requirements of the REO

   ▶ May be easier (and cheaper) to adapt existing tools

Collaboration with PBs & Utility Companies

▶ To date we have Memorandums of Understanding from our two regional Local Authorities, Carlow & Kilkenny County Council;

▶ Both are providing electricity utility data on a month by month basis, and also annual non-metred utilities;

▶ Through a Credit Union Energy Efficiency program, we are in the process of gathering a data set around private houses – directly with home owner – who have availed of energy efficiency upgrades;

▶ Progressive meetings have been held with some of the larger providers in Ireland, Airitrcity, Bord na Mona, Electric Ireland, Energia.
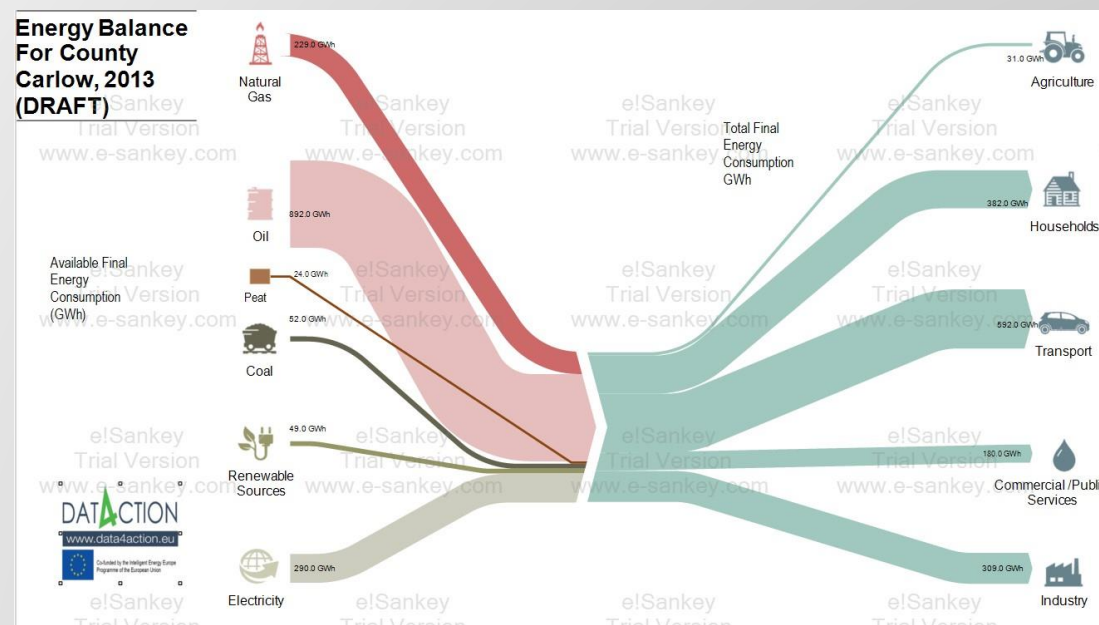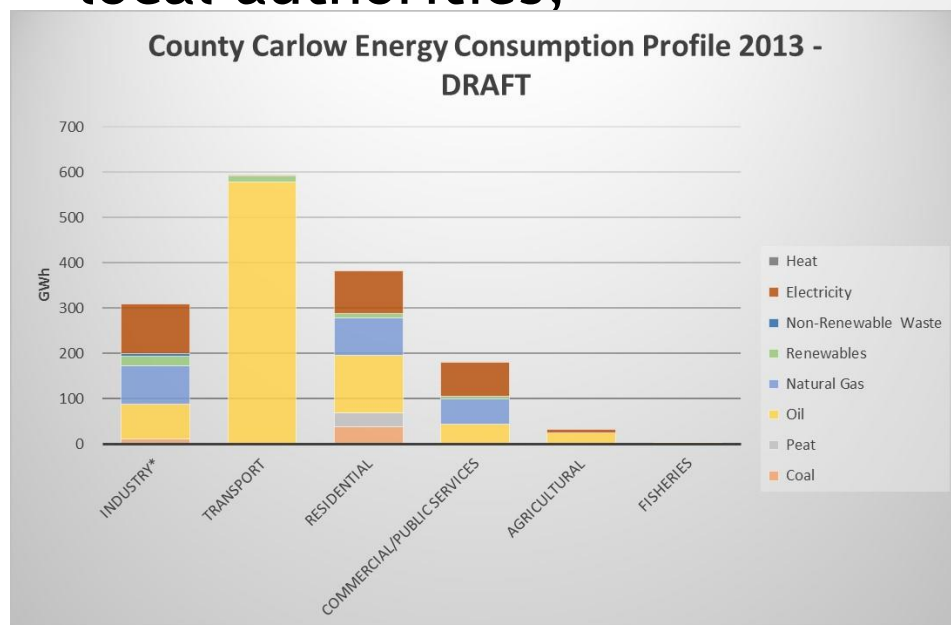
Establishing Regional Energy Observatory

▶ DRAFT Technical specification underway – to be issued for tender in the upcoming weeks. This was done based on advice from Nenet and also some Irish technical experts for back end / data analytics tools;

▶ Our proposed mechanism is to bring it to the market as a product that we want and let the contractor provide the solution.

▶ Kilkenny County Council are signatories Covenant of Mayors and it is expect that Carlow County Council will join shortly;

▶ Internally, we have a number of staff recruited to focus on the business aspect of the REO and also the technical advancement of the work already done from a national level.

▶ In conversation with Kent County Council, and will share specification once complete – opened up another discussion around Co-Openergy and a collaboration exchange with Kent County Council, focusing on Social housing

Establishing Regional Energy Observatory

Top –Down Anaylsis and Data is available in house and to the local authorities;

County Carlow Energy Consumption Profile 2013 - DRAFT

Energy Balance For County Carlow, 2013 (DRAFT)

Regional Roundtable

▶ The Regional Roundtable will be held on 03rd June 2015;

▶ Upcoming Event – Energy Info Day, promoting SEAP, using Covenant of Mayors Structure following;

▶ We hope to continue the collaboration with Nenet;

▶ Support required to do peer review our observatory once established.

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How Can You & Your Organisation Contribute?

▶ Actively Participate in Regional Energy Observatories;

▶ Assist in the Exploration of Ways to Improve Data Collection;

▶ Assist in the mobilization of the Energy Data Providers and Public Authorities;

▶ Be part of the demonstration of collaboration models

Why Engage?

▶ **Learn from Others**

Through Regional Energy Observatories, there will be an opportunity to meet with other stakeholders to actively engage and learn how other stakeholders gather and use data.

▶ **Better Data Access & Improved Data Quality**

The creation of Regional Energy Observatories will assist in the creation of "One-Stop Shop" Data Centres, which will allow open access to information. The supply of data will be real time and usable.

▶ **Development of Relationships**

The project promotes the cross-sectorial interaction required to ensure quality of data sharing and development of actionable Sustainable Energy Action Plans

▶ **Improved Sustainable Energy Action Plans**

The improved data can be used to create renewed and real-time Sustainable Energy Action Plans.

DATA4ACTION Key Results

Improvement of Access to Energy Data for Better Implementation and Monitoring of Sustainable Energy Action Plan

Mobilise Public Authorities & Energy Data Providors and facilitate their co-operation

Demonstate Data Exchange collaboration models "in Action"

Support Knowledge Transfer and Replication

Promote European Policies

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Thank You!

▶ For Further Information and support:

   ▶ www.data4action.eu

▶ Your local contact for Data4Action is

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   ▶ pphelan@ckea.ie

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