



ENERGY  
AWARENESS



ENERGY  
MONITORING  
& MANAGEMENT



ENERGY  
POLICY &  
PLANNING



MATCH  
FUNDING



PROJECT  
MANAGEMENT

# A GUIDE TO CODEMA'S SERVICES

# ABOUT CODEMA



Codema is Dublin's energy agency. We work with the four Dublin local authorities to help them improve their energy efficiency and reduce carbon emissions in the Dublin region.

Codema currently employs 11 staff who have qualifications and experience in the areas of Engineering, Environmental Science, Project Management, Communications and Marketing, and Financial Administration. This allows the team to deliver a professional, dedicated service across five key areas: Energy Awareness, Energy Monitoring and Management, Energy Policy and Planning, Match Funding, and Project Management.

## WORKING TO IMPROVE ENERGY EFFICIENCY IN DUBLIN'S LOCAL AUTHORITIES



## OUR SERVICES



ENERGY AWARENESS



ENERGY MONITORING & MANAGEMENT



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## THINK ENERGY @ WORK

Codema's energy awareness team can develop its award-winning Think Energy campaign for your workplace, with a range of innovative activities and promotional material which will inspire your staff to save energy and help you meet public sector energy targets. Our energy-awareness services are ideal for a staff energy day or as part of a long-term, tailor-made campaign that can best suit the needs of your organisation. These services include:

- Dedicated staff energy days
- Energy awareness surveys
- Expert talks on energy saving
- Competitions and quizzes
- Night time energy audits
- Interactive displays, such as our Interactive Lighting Display
- Customised promotional material and giveaways

## THINK ENERGY @ HOME

Codema has developed Ireland's first Home Energy Saving Kits, which are available for the public to borrow free of charge from a selection of Dublin city libraries. The kits contain six key tools to help you make sense of the energy you consume on a daily basis. These are:

- Thermal Leak Detector
- Radiator Key
- Fridge Freezer Thermometer
- Temperature & Humidity Meter
- Plug-in Electricity Monitor
- Stopwatch

These tools will help you become more energy efficient by identifying problem areas in your home and, accompanied with our Guide to Home Energy Savings, will enable you to take those first steps on your sustainable energy journey.

For more information on where you can borrow a kit or on our range of energy awareness services, please visit [www.codema.ie/thinkenergy](http://www.codema.ie/thinkenergy).



# ENERGY MONITORING & MANAGEMENT



## ENERGY MONITORING

Codema's technical team monitors the local authorities' gas and electricity accounts and enters these into the Public Sector Monitoring & Reporting database. We continually review these accounts and use them, in combination with our extensive building survey data, to identify energy saving opportunities for the local authorities.

Codema also generates Display Energy Certificates for a variety of public buildings such as swimming pools, offices and libraries. We also carry out detailed building surveys for local authority buildings to analyse how energy is being used in each building and where further investigation is needed.

## ENERGY PERFORMANCE CONTRACTING

Codema is highly-skilled in the area of Energy Performance Contracting and helped Dublin City Council to deliver Ireland's first local authority EPC project involving three of its sports and fitness centres. An EPC is a contractual agreement by an Energy Service Company (ESCo) to guarantee energy savings over an agreed period of time and is a highly-successful model in many European countries.

Codema can facilitate the entire EPC process for your building, and help you to take the project from initial identification (building surveys, etc.) right through to procurement and awarding of the contract.

## ENERGY UPGRADES & RENEWABLE ENERGY

Codema has a range of experience in helping the local authorities carry out energy efficiency upgrades and incorporate renewable energy technology.

We assisted Dublin City Council in procuring solar PV panels for a number of its library buildings, Irishtown Stadium and its Civic Offices. We also helped Dublin City Council carry out lighting upgrades in Pearse House and Irishtown Stadium through SEAL's Better Energy Communities programme.

# ENERGY POLICY & PLANNING



## CLIMATE CHANGE

Codema has a range of expertise in the areas of energy policy and planning. We have recently facilitated the development of the *Draft Strategy towards Climate Change Action Plans* on behalf of the four Dublin local authorities. This strategy will lead to the creation of mitigation and adaptation action plans for each Dublin local authority area, which will contribute towards meeting our national and EU climate obligations.

## ENERGY MAPPING

We have completed Spatial Energy Demand Analyses (SEDAs) for the entire Dublin region. This means that the entire Dublin County is now mapped in terms of energy use, and is the first county in Ireland to carry out such in-depth analyses. These SEDAs will help the local authorities to create evidence-based energy policy.

## DISTRICT HEATING

Codema is currently involved in an SEAI Sustainable Energy Research, Development & Demonstration Programme to develop the potential for district heating in Ireland. We are also involved in the Dublin District Heating Scheme to develop a large-scale district heating network in the Docklands area, and we will be leading the INTERREG VB HeatNet project, which will support South Dublin County Council with the roll-out of a district heating network combining County Hall, Tallaght Library and Tallaght Hospital.

## SUSTAINABLE ENERGY ACTION PLANS

As part of the Covenant of Mayors for Climate & Energy, we have assisted with the preparation of Sustainable Energy Action Plans (SEAPs) for Dublin City Council and South Dublin County Council, along with a Monitoring and Progress Report 2014 for Dublin City. We are currently working with both Fingal and Dún Laoghaire–Rathdown County Councils to develop similar action plans.

We also regularly participate in national energy consultations and sit on a range of Steering Committees to which we give energy advice.



# PROJECT MANAGEMENT

## PUBLIC PROCUREMENT

Codema has almost 20 years of experience of managing projects for the Dublin local authorities. We have upskilled in the area of public procurement, and have helped Dublin City Council tender PV panels for a range of its public buildings.

## ENERGY PERFORMANCE CONTRACTING

We are experienced Energy Performance Contracting facilitators, and developed and project managed the delivery of Ireland's first local authority EPC. We can assist local authorities with recognising potential EPC projects and can liaise with the relevant departments to implement them. We can facilitate the whole process from initial project identification, internal communication and awareness raising through to procurement and contract signing.

## EU PROJECT MANAGEMENT

Codema has managed numerous EU-funded projects on behalf of the local authorities. These projects help the local authorities to stay up-to-date on the latest energy developments in Europe, test methods and technologies in Ireland which are already widely used in other countries, and gain further knowledge and experience on improved energy efficiency and renewable energy technologies.

Examples of our EU projects include:

- **GuarantEE** - further developing Energy Performance Contracting in Europe
- **ACE** - promoting the uptake of renewable and sustainable energy across North West Europe
- **BuildSmart** - demonstrating innovative techniques for low-energy buildings
- **EPLACE** - improving energy efficiency in buildings through the use of information and communication technology (ICT)

# MATCH FUNDING



## NATIONAL GRANTS

Codema is available to the Dublin local authorities to support any national grant applications. Through SEAI's Better Energy Communities and Technical Assistance programmes, we are currently availing of national grants which directly benefit the local authorities. We have also secured national funding for an SEAI Sustainable Energy Research, Development & Demonstration Programme to advance spatial energy planning and develop a baseline emissions inventory for Fingal and Dún Laoghaire-Rathdown County Councils.

## EU FUNDING

Codema both manages and initiates projects that can access EU funding in areas that are beneficial to the local authorities.

We have a wide network of experienced partners across Europe, and have worked with over 80 partners across 16 countries on EU-funded programmes such as INTERREG IVB North West Europe, Intelligent Energy Europe (IEE), Horizon 2020, the Competitive & Innovation Framework Programme (CIP) and the Seventh Framework Programme (FP7). These projects help us bring a range of expertise to the local authorities in areas such as energy efficiency, renewable energy, ICT and citizen engagement.

We are also now lead partner on the INTERREG VB Heatnet project, which aims to develop district heating across North West Europe.

## CONTACT US



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