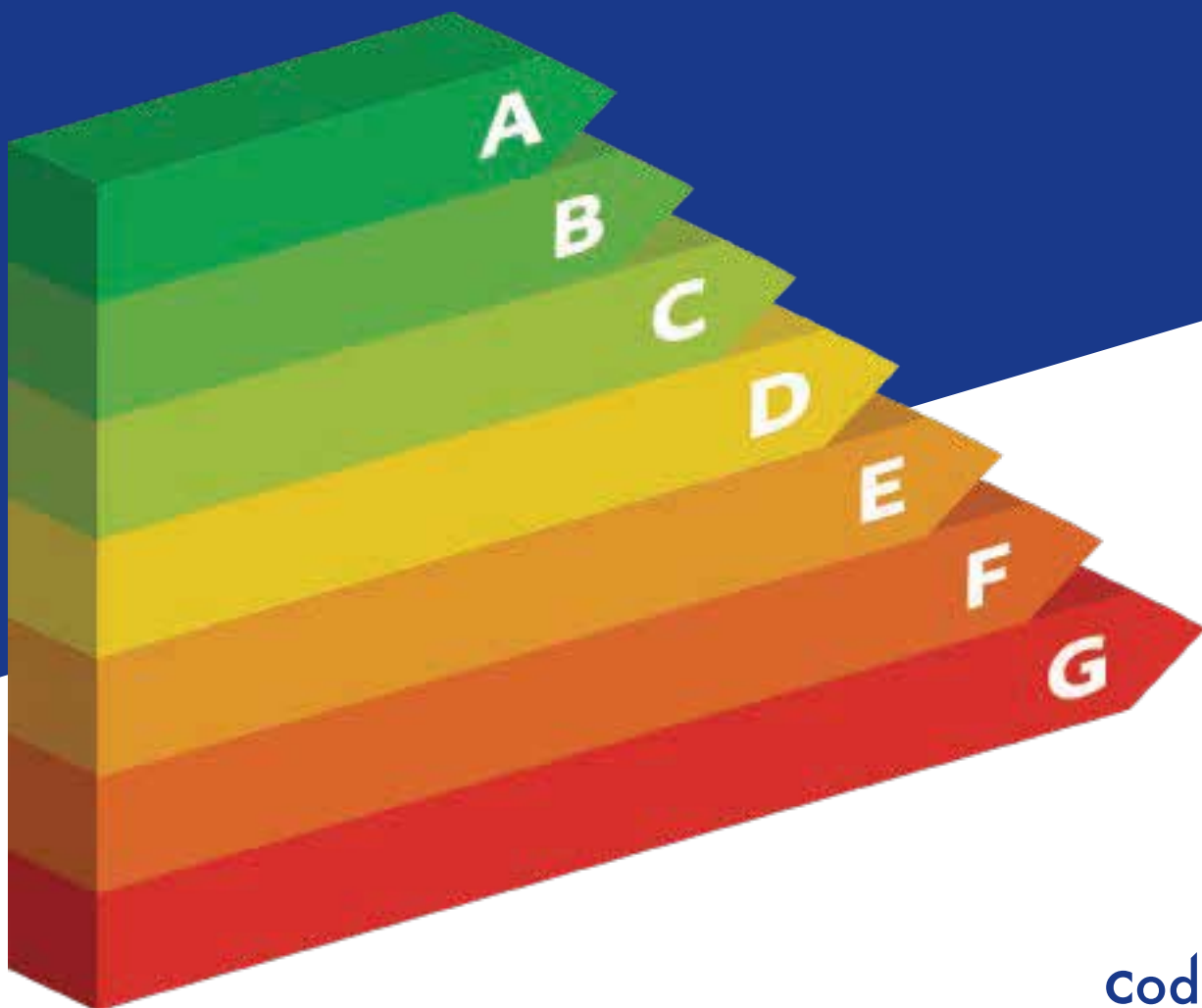
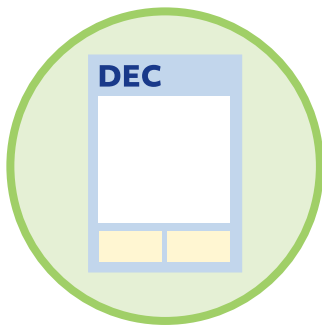


Think Energy

A Guide to Display Energy Certificates for Local Authority Buildings





WHAT IS A DISPLAY ENERGY CERTIFICATE?

A Display Energy Certificate (DEC) shows the energy performance of a building based on actual energy consumption recorded over the last 12 months. It compares the actual energy use against the energy use for a benchmark building of the same type. Similar to a domestic Building Energy Rating (BER), DEC's are displayed on a scale from A to G, with an A rating being the most efficient and a G rating being the least efficient.



WHEN IS A DEC REQUIRED?

Any building with a floor area greater than 250m² which is frequently visited by the public is required to display a DEC in a prominent, public place. Additionally, public bodies may wish to provide their DEC via a website or other publicly accessible media. The requirement of a DEC for public buildings aims to encourage more environmentally-considerate decisions in relation to energy use, overall efficiency and carbon emissions.



DIFFERENCE BETWEEN DEC'S AND BER'S

A Building Energy Rating (BER) can be used for domestic and non-domestic purposes. In contrast to the DEC, the BER is an indication of the *predicted* energy performance of a building (also known as an asset rating of a building). It does not take into account the energy consumption of the building but is an indication of how well the building *should* perform. The DEC however is based on *actual* energy consumption of the building.



HOW IS A DEC PRODUCED?

To produce a DEC, a Public Building Energy Assessor will have to survey your building. The first step of the assessment involves the recording and analysis of your energy bills of the previous year. Starting with a general external appraisal of the building, the Assessor will then walk through the building with the relevant staff member to discuss any outstanding issues affecting energy use. The building area is measured and the walk-through audit identifies specific observations in terms of boiler type, space heating, water heating, heating controls, lighting, ventilation and window type. All information gathered during the audit is then compiled to generate the DEC.

Display Energy Certificate

BER for the building detailed below is:

C1

A

C

D

Name of building

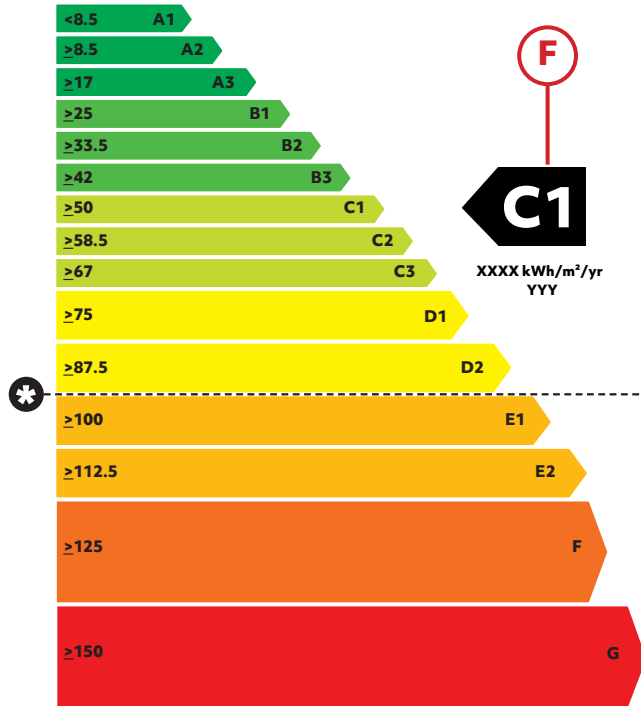
Street Name
Town Name
County Name

Building Type: XXXXXXXXXXXXXXXXXXXX
Useful Floor Area (m²): XXXXXXXXXXXXXXXXXXXX
Main Heating Fuel: XXXXXXXXXXXXXXXXXXXX
Building Environment: XXXXXXXXXXXXXXXXXXXX

BER No.: XXXXXXX
Date of Issue: DD/MM/YY
Valid Until: DD/MM/YY
Assessor No.: XXXXXXX

Building Energy Rating (Indicator)

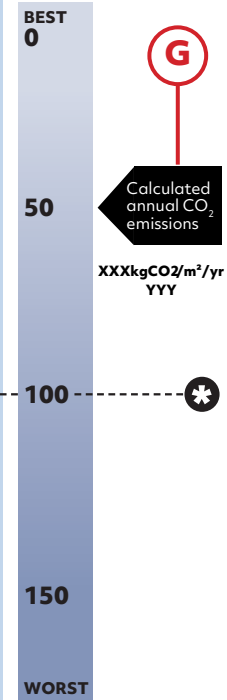
LOW ENERGY USE



HIGH ENERGY USE

* Typical building of this type

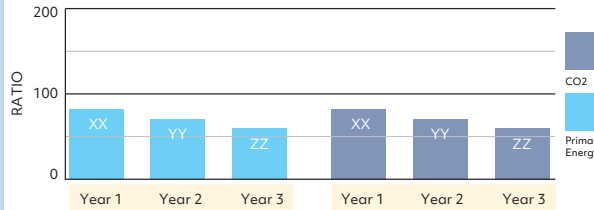
Carbon Dioxide (CO₂) Emissions Indicator



Annual Energy Use

This building	
Non Electrical (kWh/m ² /yr)	Electrical (kWh/m ² /yr)
XXX	XXX
Typical building of this type	
Non Electrical (kWh/m ² /yr)	Electrical (kWh/m ² /yr)
XXX	XXX

Previous Building Energy Ratings



- A** Display Energy Certificate rating (also known as Actual Building Energy Rating)
- B** Name and address of the building
- C** Technical information about the building, e.g. floor area, fuel type, etc
- D** Unique Building Energy Rating number
- E** Information about the expiry date of DEC and Assessor's Registration Number
- F** DEC rating for building and consumption in terms of kWh/m²/yr and DEC point scale
- G** CO₂emissions emitted by the building in terms of kgCO₂/m²/yr and DEC point scale
- H** Benchmark for typical building of this type (representing 100 points on the DEC scale)
- I** Annual Energy Use of building in kWh/m²/yr in terms of electrical and non-electrical
- J** Annual Energy Use of typical building of similar type
- K** Comparison of current DEC with previous 2 years to show any significant energy savings



WHO IS CODEMA?

Codema is Dublin's Energy Agency and is committed to leading Dublin's low-carbon transition towards 2030 and 2050. We provide a wide range of energy and climate mitigation services to the four Dublin Local Authorities and other stakeholders in the region. We support each council in leading and influencing the low-carbon transition by improving their energy efficiency, incorporating renewable energy technologies and reducing their greenhouse gas emissions. We also pride ourselves in being very successful in bringing innovative energy projects and methods to Ireland.

These key services include:

 <p>Local Authority Energy Management</p> <ul style="list-style-type: none"> • Monitoring & Reporting • Energy Databases • Energy Surveys • Energy Audits • Display Energy Certificates • ISO 50001 • Energy Efficiency Upgrades • Measurement & Verification • Energy Management System Implementation 	 <p>Project Implementation</p> <ul style="list-style-type: none"> • Energy Efficiency Projects • Renewable Energy Projects • District Heating Contracting • Project Procurement and Finance 	 <p>Awareness, Communication & Engagement</p> <ul style="list-style-type: none"> • Think Energy Campaign • Home Energy Saving Kits • Energy & Climate Awareness Programmes • Staff Engagement • Educational Workshops & Events • Information Events • Promotion of Local Authority Energy & Climate Change-Related Projects • Sustainable Energy Communities • Dublin Energy Transition Roadmap 	 <p>Research, Development & Innovation</p> <ul style="list-style-type: none"> • EU & National Energy & Climate Change Policy • Climate Mitigation & Adaptation • Energy Planning across Electricity, Heat, Transport & Building Energy Efficiency • GHG Modelling • Techno-Economic Energy System Analysis • Detailed Energy System Financial Appraisals • Energy Master Planning • District Heating Expertise • Advice on Development Plans & Policy Papers 	 <p>Management Support</p> <ul style="list-style-type: none"> • Financial Admin & Reporting • Project Proposals • Tender Development • Local & EU Project Management • National & EU Funding Applications
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WHAT CAN CODEMA DO FOR YOU?

Eoin Ahern is Codema's DEC Assessor. He is a Certified Energy Manager and qualified Non-Domestic Building Energy Rating (BER) Assessor, and analyses the energy performance of the Council buildings on an ongoing basis. Eoin generates the DEC's each year, and can help with any questions you may have regarding your rating or ways to reduce your energy consumption.

CONTACT CODEMA

Why not contact Codema and find out how we can help you as part of the core services we deliver to your Local Authority. We would be delighted to hear from you!

Codema

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