

NO	Action	Time Frame	Lead Department(s)
ENERGY PLANNING			
E1	Create Energy Master Plan for the Dublin Region	2018 onwards	Codema
E2	Requirement for all new developments to be district heating-enabled in Poolbeg West, North Lotts and Grand Canal SDZs	Ongoing	Planning and Property Development
E3	Prepare Dublin City Sustainable Energy and Climate Action Plan	2019	Codema
E4	Evidence-based Climate Change Chapter in City Development Plan 2022-2028	2020 onwards	Planning and Property Development
ENERGY MANAGEMENT			
E5	Develop ISO 50001 compliant energy management system	Ongoing	Environment and Transport
E6	Annual Monitoring and Reporting to SEAI	Annually	Codema

E7	Publish Energy Review annually	Ongoing	Codema
E8	Display Energy Certificates for public buildings	Ongoing	Codema
ENERGY EFFICIENCY & RENEWABLES			
E9	Dublin District Heating System	2023	Environment and Transportation
E10	Identify sites for trialling renewable energy projects, including solar PV	2019	Planning and Property Development
E11	Energy efficiency works in 30 Council owned and operated buildings	Ongoing	Housing
E12	Dublin Fire Brigade energy efficiency works	Ongoing	Dublin Fire Brigade
E13	Continue the Fabric Upgrade Programme of housing stock	Ongoing	Housing

E14	Develop and implement Public Lighting Master Plan	2019	Environment and Transport
E15	Landlord lighting upgrades in 15 complexes across the City	Ongoing	Housing
E16	Facilitate EPC project in 7 leisure centres/dry sports centres across Dublin City	2019	Culture, Recreation and Economic Services, Codema
E17	Install PV panels on Council buildings in Dominick Street, North King Street, Cornamona Court	2019	Architects
E18	New nZEB Super Depots	2020	Transformation Unit
RESEARCH & INNOVATION			
E19	Develop proposal to use Docklands SDZ to test smart public lighting infrastructure	2020	Smart Dublin
E20	Expand and develop Small Business Innovation & Research (SBIR) programme	Ongoing	Smart Dublin
E21	Work with CARO on research and project proposals for grant funding	2019 onwards	CARO, Codema
E22	Develop an understanding of deep geothermal resources in Dublin through the GEO-URBAN Project	2021	Environment and Transportation
ENERGY AWARENESS			

E23	Continued staff energy awareness in Council buildings	Ongoing	Codema
E24	Engage with students about energy and buildings through CPD Programme/Engineers Week	Ongoing	Environment and Transportation
E25	Provide citizens with energy awareness material in public buildings	Ongoing	Communications
E26	Provide City Council tenants with energy awareness materials at home, particularly at the time of taking up new tenancy	Ongoing	Housing
E27	Monitor and develop the Home Energy Savings Kits in DCC's public libraries	Ongoing	DCPL, Codema

ENERGY & BUILDINGS - ACTIONS AWAITING

NO	Action	Time Frame	Lead Department(s)
E28	<i>Develop research and funding opportunities for renewable and efficiency projects</i>	<i>2018 onwards</i>	<i>Codema</i>
E29	Undertake programme of flat complex regenerations	2022 onwards	Housing, City Architects

New Actions

E30	The City Council Energy Review (mid 2019) and going forward, will include a glide path illustrating the energy efficiency and GHG emission targets for the City Council up to and including 2030.	2019 onwards	Codema
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E31	Appendix II: Total Emissions in Dublin City of the CCAP, will also be updated every two years in accordance with EU Covenant of Mayors for Climate & Energy protocol.	2022	Codema
E32	The City Architects Division of Dublin City Council is committed to participating with Irish Green Building Council and other European organisations in BUILD UPON 2. This is a project funded under the EU's H2020 programme and will run for two years from May 2019. It will work to develop long-term building renovation strategies, linked to EU and national policy, with the aim of delivering a highly efficient and decarbonised building stock by 2050.	June 2019 to June 2021	City Architects
E33	The City Architects Division of Dublin City Council is committed to participating with the RIAI in particular the Sustainability Task Force in seeking new and innovative approaches to Climate action in the built environment	Ongoing	City Architects
E34	Identify site for trialling renewable energy projects, including solar PV and Geothermal.	2020 onwards	Environment and Transportation
E35	The City Council will undertake a research study to investigate the Lifecycle Assessment of Traditional and New Construction Methods for Residential Projects in Dublin with a view to formulating initial recommendations by end 2019.	2020 onwards	City Architects

E36	In all building projects, new build or retrofit, Swift Bricks or other nesting sites for swifts will be provided where practicable. The presence of swift breeding sites will be identified to ensure that known breeding sites are not lost as a result of construction work.	2020 onwards	City Architects
E37	Develop maintenance and condition survey programmes for Council owned historic and ancient monuments that are informed by climate change impacts.	2020	City Architects
E38	Conduct research and seek to develop City Council based case studies on appropriate and sensitive retro-fitting/energy upgrading of traditional buildings to inform works both to Council owned properties and to guide private owners.	Ongoing	City Architects

Indicators	Responsibility	Q1 Outcome
Website with e-Map	Brian Connolly (CODEMA)	
# of buildings DH-enabled	Stephen Cull	See Q2
SECAP complete	Donna Gartland (CODEMA)	
Chapter with policies and development management standards	Anthony McNamara (CARO)	
System developed and ISO 50001 compliant	Cormac Healy	Ongoing
DCC's energy use monitored and reported	Cormac Healy and Brian Connolly (CODEMA)	2019 M&R Scorecard showd DCC has already achieved 2020 target.

Review published,	Brian Connolly (CODEMA)	
# of recommendations implemented		
Compliant with legislation	Brian Connolly (CODEMA)	
# of buildings connected	Stephen Cull	See Q2
Properties identified, project plans	Brian Connolly (CODEMA)	
# of buildings upgraded	Shane Hawkshaw	
# of buildings upgraded	Brian Connolly (CODEMA)	
Completion of 300 retrofits per annum, to C1 level or better	Shane Hawkshaw	

% public lighting converted to LEDs	Martin Maycock	
# of lights retrofitted	Martin Maycock	
EPC project delivered	Cormac Healy	Works phase being completed; snags being finalised.
PVs installed	Owen O'Doherty	
Completion of depots, # of depots merged into super depots	Sharon McMahon	
Proposal developed	Beata Molendowska	
Energy and climate change challenges identified for yearly SBIR challenge	Beata Molendowska	
# of research projects initiated	Anthony McNamara (CARO)	
Report complete		Work Package 2 Completed. Currently processing the Geophysical data from survey works to prepare a 3D model of the subsurface strata of the project area within Dublin City.

# of staff participating in events and activities	Beata Molendowska	
# of students participating in events and activities	Stephen Cull and Victor Coe	CPD Development Committee in partnership with Engineers Irelands 'Engineers Week 2020' in late February, early March, arranged for engineering staff to volunteer and give presentations/webinars in 12
# of materials available in public buildings	Beata Molendowska	
% tenants receiving information	Frank D'arcy	
# of kits borrowed	Suzanne Fitzpatrick (CODEMA)	
NG BUDGET		
Indicators	Target(s) Impacted	
<i>Research and funding management group established</i>	Joe Hayden (CODEMA)	
Complete 200 regenerated flats to nZEB standard each year from 2022	Owen O'Doherty	
ctions		
Glide path included	Brian Connolly (CODEMA)	

Baseline updated	Declan McCormac (CODEMA)	
Complete participation in accordance with project Work Packages.	Owen O'Doherty	
# of meetings with tasl force	Owen O'Doherty	
# of site identified	Stephen Cull	In relation to the deep geothermal project 'Geothermica' identifying a site is ongoing.
Publish research report	Matt Carroll (Gary Loughlin)	

# of sites provided	Owen O'Doherty	
# of surveys completed	Carl Raftery	
# of case studies developed	Carl Raftery	

Q2 Outcome

Poolbeg West SDZ – Ongoing/Planning
'Docklands' SDZ – 46 Built / 28 Under
Construction

Ongoing

0 – District Heating network to be constructed

0

See Q1

Annual Report Update

progressing as planned. The team has developed a model of the 'current situation' of energy demand and supply in the residential, commercial and public

Poolbeg West SDZ – Ongoing/Planning; 'Docklands' SDZ – 46 Built / 28 Under Construction

DCC SECAP complete in Q3 of 2019. The COM SECAP is based on the Dublin City CCAP and the Dublin City Baseline Emission Report 2016, the actions, energy and emission baseline inventory, adaptation baseline, the risks and vulnerability assessments were extracted from the CCAP and

The Development Plan Team have been engaging with staff and stakeholders to establish topics for issues papers that will inform the upcoming Development Plan process set to commence in December 2020.

DCC is in process of implementing an energy management system to ISO50001 standard. This is a process that is complicated by size and diverse nature of the organization and its asset base.

The M&R process was completed for 2019. SEAI's 2019 Public Sector report is due out in January before the Public Sector Energy Conference. Preliminary data indicates that DCC have reached their 2020 energy efficiency target of 33% one year early. With new energy efficiency targets released by the government SEAI are currently looking at

The 2019 Energy Review will be published in September 2020. The review clearly demonstrated where energy is used within the DCC's significant energy users, what drives their consumption, and where the greatest energy saving potential is. The review also identifies where DCC is currently in relation to public sector energy targets, and what areas need to be addressed in order to meet these targets between now and 2020. In Addition, this years energy review also looks at the new energy efficiency target of 50% energy efficiency improvement by 2030 and what the council has planned to achieve this. It also looks at the council's current situation relation to the absolute carbon reduction target of 40% by 2030.

In September 2020 Codema will publish 44 Display Energy Certificates for DCC buildings over 250m2 and frequently visited by the public. The certs were sent to each facility with an information booklet

Preliminary design is currently being carried out on the district heating network, and some site investigation is being planned to inform this design.

The Development Plan Team have been engaging with staff and stakeholders to establish topics for issues papers that will inform the upcoming Development Plan process set to commence in December 2020. Codema has recommended sites

Houses, 26 Sites ranging from Corporate and Communal Heating sites (including 7 Senior Citizens Complexes and 4 Homeless Hostels) to receive various upgrade works. All projects have been

Not Started

Approximately 70% of our housing stock has been upgraded under the Fabric Upgrade Programme. Phase I is completed with 8,057 units upgraded. We have commenced Phase II and 814 units have been upgraded to date. The average BER

<p>We are on track with LED replacement – 50% energy reduction as a result. No significant current projects – delays due to Covid. Main Project –framework is alive for 8 years so work will continue in due course. 3 bidders for stage 2 – to be brought</p>
<p>Ongoing</p>
<p>All contracts have entered service phase and monitoring of performance is ongoing as per the contracts to insure the performance is achieved</p>
<p>Installation of panels included in three ongoing construction projects: O'Devaney Gardens (2020) Dominick St (2021) Cornamona (2021)</p>
<p>Not Started</p>
<p>This action is being reviewed in light of the Docklands Energy Group being dissolved. Smart Dublin, Codema, DCC and SEAI will continue to work collaboratively on energy projects.</p>
<p>This is ongoing</p>
<p>This is ongoing. Applications are being submitted to various funding streams</p>
<p>Work Package 2 Completed. Currently processing the Geophysical data from survey works to prepare a 3D model of the subsurface strata of the project area within Dublin City</p>

On hold due to COVID

CPD Development Committee in partnership with Engineers Irelands 'Engineers Week 2020' in late February, early March, arranged for engineering staff to volunteer and give presentations/webinars in 12 local libraries and primary schools reaching over 540 school children. - Due to COVID this is on hold.

been identified. Climote is a company that installs smart heating controls that home owners can monitor through their phone and monitor their energy use.

Tenant Manual provided by City Architects on occupation of new dwellings includes a section on Energy Awareness. Specification systems operations manual also provided. Both are written in 'plain English'.

Several funding applications are currently being developed and will be submitted

Ongoing

Project is ongoing. DCC Architects, Housing and Climate Action Team along with Codema and CARO are collecting data, and providing IGBC with feedback on framework being developed

Ongoing, meetings are being attended by City Architects

In relation to the deep geothermal project 'Geothermica' identification of a site is ongoing. **
Action Wording: E34 - Identify sites for trialling renewable energy projects, in particular geothermal technologies

Project is ongoing.

This work is ongoing.

Not started

Not started

Q4 Outcome

The Dublin Region Energy Masterplan is progressing as planned. The team have now developed a model of the 'current situation' of energy demand and supply in the residential

Poolbeg West SDZ – Ongoing/Planning; 'Docklands' SDZ – 16 Enabled / Retrofit 48 / 27 Under Construction / 4 Planning

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The Development Plan Team have been engaging with staff and stakeholders and have included climate change in the development plan issues paper that is currently out for public consultation.

Ongoing. DCC wins SEAI 'Leadership in Public Sector' Award.

DCC have exceed 2020 targets achieving 36.5 energy savings from base line. The M&R process was completed for 2019. SEAI's 2019 Public Sector report is due out in January before the Public Sector Energy Conference. DCC has made a 36.5% improvement in energy efficiency by the end of 2019. The 2020 reporting cycle is currently open

The 2019 Energy Review will be published in September 2020. The review clearly demonstrated where energy is used within the DCC's significant energy users, what drives their consumption, and where the greatest energy saving potential is. The review also identifies where DCC is currently in relation to public sector energy targets, and what areas need to be addressed in order to meet these targets between now and 2020. In Addition, this years energy review also looks at the new energy efficiency target of 50% energy efficiency improvement by 2030 and what the council has planned to achieve this. It also looks at the council's current situation relation to the absolute carbon reduction target of 40% by 2030.

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0 – See Q3 Outcomes

No Update

0 - See Q3

The contract for the O'Brien Institute boiler replacement project was awarded to O'Neils Engineering and contract was signed in December 2020. The project utilises an energy performance related payment contract to guarantee the system

0 - See Q3

Initial service phase commenced.
Not Started
Merged with Action 14.
No new challenges launched due to COVID
Ongoing
Report on location to be prepared Q2 in 2021.

Boiler replacement infographic developing for Housing & Community Services, ongoing input into development of energy focus group for DCC staff, following staff Covid climate action survey

See Q3 Outcome.

On hold due to COVID restrictions

Completed

2 training sessions carried out with library staff, following development of 42 new kits for Dublin City Public Libraries

No update on DeliverEE, still waiting on the outcome of the evaluation process.

Total energy use and emissions will be updated every two years for Dublin City Council and every five years for Dublin City (in line with the publication of the Census results). In line with the CoM, DCC submitted its SECAP in 2019, an action reporting and baseline update will be submitted in 2021.

Both projects ongoing

See Q3 Outcome and Action E22 Outcome
