

Article 24 (1) and Annex XIV Energy Efficiency Directive 2012/27/EU

Please, fill in the green fields (the grey ones are strong recommended, but voluntary). It can be chosen if Eurostat data or data based on national statistics is provided. Please, fill in [Table A](#) if data from [Eurostat](#) is reported. In case, the data is based on [national statistics](#), please, fill in [Table B](#) and provide

Annual Report	2018
Reporting year	2016
Member State	IE

Table A - Eurostat data

Number	Data field	AR Indicator	Unit(s)	Eurostat Indicator(s)	Eurostat database table	Eurostat Code	field/product(s)	SWD(2013)180, Annex A	Definition of provided national statistics for data fields not available in Eurostat	Last update (date of the data)
A1	14,6	(i) primary energy consumption	Mtoe	Primary Energy Consumption	Energy saving - annual data [nrg_ind_334a]	B_100910	-			
A2	11609,7	(ii) total final energy consumption	ktoe	Final Energy Consumption	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_101700	All products	No climate adjustment, see p. 39 SWD(2013)180, Annex A		
A3	2446	(iii) final energy consumption - industry	ktoe	Final Energy Consumption - Industry	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_101800	All products			
A4	4947,8	(iii) final energy consumption - transport	ktoe	Final Energy Consumption - Transport	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_101900	All products			
A5	0	final energy consumption in pipeline transport	ktoe	Consumption in Pipeline transport	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_101945	All products	Voluntary - See p. 39 SWD(2013)180, Annex A		
A6	2667,6	(iii) final energy consumption - households	ktoe	Residential	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_102010	All products			
A7	1321,4	(iii) final energy consumption - services	ktoe	Services	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_102035	All products			
A8	207,3	final energy consumption - agriculture	ktoe	Agriculture/Forestry	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_102030	All products	Voluntary		
A9	4215,9	final energy consumption - other sectors	ktoe	Other sectors	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_102000	All products	Voluntary		
A10	83309.3 9357.4	(iv) gross value added - industry	Million euro, chain-linked volumes, reference year 2005 (at 2005 exchange rates)	- Industry (except construction) - Construction	Gross value added and income by A*10 industry breakdowns [nama_10_a10]	- B-E - F	Value added, gross			
A11	28695.9 29031.4 19399.5 10734.8 24532.5 29539.9 4019.7	(iv) gross value added - services	Million euro, chain-linked volumes, reference year 2005 (at 2005 exchange rates)	- Wholesale and retail trade, transport, accommodation and food service activities - Information and communication - Financial and insurance activities - Real estate activities - Professional, scientific and technical activities; administrative and support service activities - Public administration, defence, education, human health and social work activities - Arts, entertainment and recreation; other service activities; activities of household and extra-territorial organizations and bodies	Gross value added and income by A*10 industry breakdowns [nama_10_a10]	- G-I - J - K - L - M,N - O,Q - R,U	Value added, gross			
A12	92558	(v) disposable income for households	Million euro	Gross disposable income	Non-financial transactions [nasa_nf_tr]	Until 2017: S14 (if available) or S14_S15; From 2017 on: S14 only	"Households" (if available) or "Households; non-profit institutions serving households"	Due to derogation for some MS granted by Eurostat	S14 given for 2016 from [nasa_10_nf_tr]. [nasa_nf_tr] not available from	
A13	263887,3	(vi) gross domestic product (GDP)	Million euro, chain-linked volumes, reference year 2005 (at 2005 exchange rates)	Gross domestic product at market prices	GDP and main components - volumes [nama_gdp_k] [nama_gdp_k] not available from Eurostat so taken from [nama_10_gdp]	B1GM B1GQ used	-			
A14	0 0 0 0 1822.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 180.2 0 0	(vii) electricity generation from thermal power generation	ktoe	- Gross electricity generation Main activity electricity only - Nuclear - Gross electricity generation Main activity CHP plants - Nuclear - Gross electricity generation Autoproducer electricity only - Nuclear - Gross electricity generation Autoproducer CHP plants - Nuclear - Gross electricity generation Main activity electricity only - Geothermal - Gross electricity generation Main activity electricity only - Combustible Fuels - Gross electricity generation Main activity electricity only - Other Sources - Gross electricity generation Main activity CHP plants - Geothermal - Gross electricity generation Main activity CHP plants - Combustible Fuels - Gross electricity generation Main activity CHP plants - Other Sources - Gross electricity generation Main activity electricity only - Solar Thermal - Gross electricity generation Autoproducer electricity only - Geothermal - Gross electricity generation Autoproducer electricity only - Combustible Fuels - Gross electricity generation Autoproducer electricity only - Heat from Chemical Sources - Gross electricity generation Autoproducer electricity only - Other Sources - Gross electricity generation Autoproducer CHP plants - Geothermal - Gross electricity generation Autoproducer CHP plants - Combustible Fuels - Gross electricity generation Autoproducer CHP plants - Heat from Chemical Sources - Gross electricity generation Autoproducer CHP plants - Other Sources	Supply, transformation, consumption - electricity - annual data [nrg_105a]	- 15_107030 - 15_107031 - 15_107032 - 15_107033 - 15_107038 - 15_107048 - 15_107054 - 15_107039 - 15_107049 - 15_107055 - 14_1070422 - 15_107040 - 15_107050 - 15_107052 - 15_107056 - 15_107041 - 15_107051 - 15_107053 - 15_107057	Electrical energy			
A15	0 0 0 0 0 180.2 0 0 0	(viii) electricity generation from CHP	ktoe	- Gross electricity generation Main activity CHP plants - Nuclear - Gross electricity generation Autoproducer CHP plants - Nuclear - Gross electricity generation Main activity CHP plants - Geothermal - Gross electricity generation Main activity CHP plants - Combustible Fuels - Gross electricity generation Main activity CHP plants - Other Sources - Gross electricity generation Autoproducer CHP plants - Geothermal - Gross electricity generation Autoproducer CHP plants - Combustible Fuels - Gross electricity generation Autoproducer CHP plants - Heat from Chemical Sources - Gross electricity generation Autoproducer CHP plants - Other Sources	Supply, transformation, consumption - electricity - annual data [nrg_105a]	- 15_107031 - 15_107033 - 15_107039 - 15_107049 - 15_107055 - 15_107041 - 15_107051 - 15_107053 - 15_107057	Electrical energy			

A16	0 0	(ix) heat generation from thermal power generation	ktoe	- Gross heat production Main activity CHP plants - Nuclear - Gross heat production Main activity heat only plants - Nuclear - Gross heat production Autoproducer CHP plants - Nuclear - Gross heat production Autoproducer heat only plants - Nuclear - Gross heat production Main activity CHP plants - Geothermal - Gross heat production Main activity CHP plants - Combustible Fuels - Gross heat production Main activity CHP plants - Heat Pumps - Gross heat production Main activity CHP plants - Electric Boilers - Gross heat production Main activity CHP plants - Other Sources - Gross heat production Main activity CHP plants - Solar - Gross heat production Autoproducer CHP plants - Geothermal - Gross heat production Autoproducer CHP plants - Combustible Fuels - Gross heat production Autoproducer CHP plants - Heat Pumps - Gross heat production Autoproducer CHP plants - Electric Boilers - Gross heat production Autoproducer CHP plants - Heat from Chemical Sources - Gross heat production Autoproducer CHP plants - Other Sources - Gross heat production Autoproducer CHP plants - Solar - Gross heat production Main activity heat only plants - Geothermal - Gross heat production Main activity heat only plants - Solar - Gross heat production Main activity heat only plants - Combustible Fuels - Gross heat production Main activity heat only plants - Heat Pumps - Gross heat production Main activity heat only plants - Electric Boilers - Gross heat production Main activity heat only plants - Other Sources - Gross heat production Autoproducer heat only plants - Geothermal - Gross heat production Autoproducer heat only plants - Solar - Gross heat production Autoproducer heat only plants - Combustible Fuels - Gross heat production Autoproducer heat only plants - Heat Pumps - Gross heat production Autoproducer heat only plants - Electric Boilers - Gross heat production Autoproducer heat only plants - Heat from Chemical Sources - Gross heat production Autoproducer heat only plants - Other Sources	Supply, transformation, consumption - heat - annual data [nrg_106a]	- 15_107060 - 15_107061 - 15_107062 - 15_107063 - 15_107064 - 15_107072 - 15_107076 - 15_107080 - 15_107086 - 15_107068 - 15_107066 - 15_107074 - 15_107078 - 15_107082 - 15_107084 - 15_107088 - 15_107070 - 15_107065 - 15_107069 - 15_107073 - 15_107077 - 15_107081 - 15_107087 - 15_107067 - 15_107071 - 15_107075 - 15_107079 - 15_107083 - 15_107085 - 15_107089	Derived heat			
A17		Waste heat produced in industrial installations	ktoe	Eurostat data not available. Please, provide national data with definitions/explanations in column J.				Voluntary - See p. 39 SWD(2013)180, Annex A		
A18	0 0 0 0 0 0 0 0 0 0 0 0	(x) heat generation from CHP	ktoe	- Gross heat production Main activity CHP plants - Nuclear - Gross heat production Autoproducer CHP plants - Nuclear - Gross heat production Main activity CHP plants - Geothermal - Gross heat production Main activity CHP plants - Combustible Fuels - Gross heat production Main activity CHP plants - Heat Pumps - Gross heat production Main activity CHP plants - Electric Boilers - Gross heat production Main activity CHP plants - Other Sources - Gross heat production Main activity CHP plants - Solar - Gross heat production Autoproducer CHP plants - Geothermal - Gross heat production Autoproducer CHP plants - Combustible Fuels - Gross heat production Autoproducer CHP plants - Heat Pumps - Gross heat production Autoproducer CHP plants - Electric Boilers - Gross heat production Autoproducer CHP plants - Heat from Chemical Sources - Gross heat production Autoproducer CHP plants - Other Sources - Gross heat production Autoproducer CHP plants - Solar	Supply, transformation, consumption - heat - annual data [nrg_106a]	- 15_107060 - 15_107062 - 15_107064 - 15_107072 - 15_107076 - 15_107080 - 15_107086 - 15_107068 - 15_107066 - 15_107074 - 15_107078 - 15_107082 - 15_107084 - 15_107088 - 15_107070	Derived heat			
A19		Waste heat recovered from industrial installations	ktoe	Eurostat data not available. Please, provide national data with definitions/explanations in column J.				Voluntary - See p. 39 SWD(2013)180, Annex A		
A20	0 4210.7 0	(xi) fuel input for thermal power generation	ktoe	- Transformation input - Nuclear Power Stations - Transformation input - Conventional Thermal Power Stations - Transformation input - District Heating Plants	Supply, transformation, consumption - all products - annual data [nrg_100a]	- B_101002 - B_101001 - B_101009	All products			
A21	1989,798 n/a	(xii) passenger kilometres	Millions of pkm Millions of pkm	Railway TRA_COV: Total transport Road VEHICLE: Total	Railway transport - Total annual passenger transport (1 000 pass., million pkm) [rail_pa_total] Passenger road transport on national territory, by type of vehicles registered in the reporting country [road_pa_mov]	- TOTAL - TOTAL	- -		Rail pkm only. 2016 figure from Central Statistics Office Transport Omnibus 2016 publication.	
A22	n/a	domestic maritime passenger kilometres	Millions of pkm	Eurostat data not available. Please, provide national data with definitions/explanations in column J.						
A23	n/a	total national aviation passenger kilometres	Millions of pkm	Eurostat data not available. Please, provide national data with definitions/explanations in column J.						
A24	na/	total international aviation passenger kilometres	Millions of pkm	Eurostat data not available. Please, provide national data with definitions/explanations in column J.						
A25	101,48 11616 n/a	(xiii) tonnes kilometres	Millions of tkm Millions of tkm Millions of tkm	Railway TRA_COV: Total transport Road TRA_OPER: Total - Total transport Waterway TRA_COV: Total transport	Railway transport - Goods transported, by type of transport (1 000 t, million tkm) [rail_go_typeall] Summary of annual road freight transport by type of operation and type of transport (1 000 t, Mio Tkm, Mio Veh-km) [road_go_ta_tot] Transport by type of good (from 2007 onwards with NST2007) [iw_w_go_atygo]	- TOTAL - TOTAL - TOTAL	- CARRIAGE: Total NSTO7: Total transported goods (TOTAL) TYPPACK: All types of packaging (TOTAL)		2016 figure from Central Statistics Office Transport Omnibus 2016 publication.	
A26	n/a	domestic maritime tonnes kilometres	Millions of tkm	Eurostat data not available. Please, provide national data with definitions/explanations in column J.						
A27	n/a	total national aviation tonnes kilometres	Millions of tkm	Eurostat data not available. Please, provide national data with definitions/explanations in column J.						
A28	n/a	total international aviation tonnes kilometres	Millions of tkm	Eurostat data not available. Please, provide national data with definitions/explanations in column J.						
A29	4726286	(xv) population	Persons	Population on 1 January - total	Demographic balance and crude rates [demo_gind]	JAN	-			
A30	1702289	Total number of households	Households	Eurostat data not available. Please, provide national data with definitions/explanations in column J.				Voluntary - see p. 39 SWD(2013)180, Annex A	Census 2016 - Central Statistics Office.	
A31	244	Energy transmission and distribution losses (all fuels)	ktoe	Distribution Losses	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_101400	All products	Voluntary - see p. 39 SWD(2013)180, Annex A		
A32	0	Heat generation from district heating plants	ktoe	Transformation output - District Heating Plants	Supply, transformation, consumption - heat - annual data [nrg_106a]	B_101109	Derived heat	Voluntary - see p. 39 SWD(2013)180, Annex A		
A33	0	Fuel input in district heating plants	ktoe	Transformation input - District Heating Plants	Supply, transformation, consumption - all products - annual data [nrg_100a]	B_101009	All products	Voluntary - see p. 39 SWD(2013)180, Annex A		

[and/or](#)**Table B - Data based on national statistics**

Number	Data field	AR Indicator	Unit	Source	SWD(2013)180, Annex A	Definition of provided national statistics (including differences respect the definitions of Eurostat indicators listed above)	Last update (date of the data)
B1		(i) primary energy consumption	ktoe				
B2		(ii) total final energy consumption	ktoe		No climate adjustment, see p. 39 SWD(2013)180, Annex A		
B3		(iii) final energy consumption - industry	ktoe				
B4		(iii) final energy consumption - transport	ktoe				
B5		final energy consumption in pipeline transport	ktoe		Voluntary - See p. 39 SWD(2013)180, Annex A		
B6		(iii) final energy consumption - households	ktoe				

B7		(iii) final energy consumption - services	ktoe			
B8		final energy consumption - agriculture	ktoe		Voluntary	
B9		final energy consumption – other sectors	ktoe		Voluntary	
B10		(iv) gross value added - industry	Million euro, chain-linked volumes, reference year 2005 (at 2005 exchange rates)			
B11		(iv) gross value added - services	Million euro, chain-linked volumes, reference year 2005 (at 2005 exchange rates)			
B12		(v) disposable income for households	Million euro			
B13		(vi) gross domestic product (GDP)	Million euro, chain-linked volumes, reference year 2005 (at 2005 exchange rates)			
B14		(vii) electricity generation from thermal power generation	ktoe			
B15		(viii) electricity generation from CHP	ktoe			
B16		(ix) heat generation from thermal power generation	ktoe			
B17		Waste heat produced in industrial installations	ktoe		Voluntary - See p. 39 SWD(2013)180, Annex A	
B18		(x) heat generation from CHP	ktoe			
B19		Waste heat recovered from industrial installations	ktoe		Voluntary - See p. 39 SWD(2013)180, Annex A	
B20		(xi) fuel input for thermal power generation	ktoe			
B21		(xii) passenger kilometres	pkm			
B22		(xiii) tonnes kilometres	tkm			
B23		(xv) population	Persons			
B24		Total number of households	Households		Voluntary - see p. 39 SWD(2013)180, Annex A	
B25		Energy transmission and distribution losses (all fuels)	ktoe		Voluntary - see p. 39 SWD(2013)180, Annex A	
B26		Heat generation from district heating plants	ktoe		Voluntary - see p. 39 SWD(2013)180, Annex A	
B27		Fuel input in district heating plants	ktoe		Voluntary - see p. 39 SWD(2013)180, Annex A	

Additional requirements Article 24 (1), Annex XIV, Part 1 (a) Energy Efficiency Directive

In sectors where energy consumption remains stable or is growing, Member States shall analyse the reasons for it and attach their appraisal to the estimates.

		Main reason 1	Main reason 2	Main reason 3	Please, explain 'other' reasons and provide any additional comments, supporting data or links to documents
34	Industry	Economic growth	Please select	Please select	The amount of energy use in industry in Ireland in 2016 at 2.4Mtoe was 3.0% higher than in 2015. This is primarily attributed to increased economic activity. Industry energy intensity in 2016 remained the same as in 2015. More information is available on pages 50-52 in "Energy in Ireland 1990-2016" available at https://www.seai.ie/resources/publications/Energy-in-Ireland-1990-2016-Full-report.pdf
35	Transport	Economic growth	Increase of transport of goods	Please select	In 2016 the overall energy used in transport increased by 3.4% compared to the previous year. This was due to an expanding economy. Energy Consumption by LGVs and private cars both fell. Overall tonnes carried in 2016 grew by 20%. More information is available in "Energy in Ireland 1990-2016" available at https://www.seai.ie/resources/publications/Energy-in-Ireland-1990-2016-Full-report.pdf (see pages 53-62)
36	Households	Decline of fuel prices	Increase of population and/or households	Please select	Residential energy use (households) increased by 1.2% in 2016 compared to 2015. When corrected for weather effects the increase was 4.8%. The main driver for the increase is the increased floor area of the housing stock as space heating is the main driver of energy use. This is as a result of the number of dwellings increasing and increase in size of dwellings. Consumption is also likely to have increased due to reduced fuel price - oil consumption in households increased by 5.1% in 2016 as the price to Irish households fell in the region of 20% in 2015 and remained relatively low in 2016. More information is available in "Energy in Ireland 1990-2016" available at https://www.seai.ie/resources/publications/Energy-in-Ireland-1990-2016-Full-report.pdf (see pages 63-68)
37	Services	Economic growth	Increase of employment	Please select	The energy use of the commercial and public services combined increased by 5% in 2016 compared to 2015. When corrections are made for weather the increase was 8.5%. Economic activity of services, as measured by value added, increased by 6.3%. The Energy Intensity in services fell by 1.2% in 2016. Data on the Public Service shows that energy consumption in the public service remained constant between 2015 and 2016. More information is available in "Energy in Ireland 1990-2016" available at https://www.seai.ie/resources/publications/Energy-in-Ireland-1990-2016-Full-report.pdf (see pages 69-73)
38	Agriculture (voluntary)	Please select	Please select	Please select	

Additional requirements Article 24 (1), Annex XIV, Part 1 (b) Energy Efficiency Directive

Updates on major legislative and non-legislative measures implemented in the previous year which contribute towards the overall national energy efficiency targets for 2020: Responses in section below relate to 2017

	Type of measure	Legal basis	Type of update	Please, insert explanations or provide a link to an extra/additional document:
39-1	Regulations and legislative measures	Exemplary role and purchasing by public bodies Art. 5 and 6 EED	Amendments, implementation or design changes and extension of an on-going measure	Legislative measures - to progress Energy Efficiency objectives - a number of Statutory Instruments (SIs) were finalised and became law in 2017. These were: <ul style="list-style-type: none"> S.I. 306 of 2017 Taxes Consolidation Act 1997 (Accelerated Capital Allowances for Energy Efficient Equipment) (Amendment) (No. 1) Order 2017. A copy of the S.I. can be accessed at http://www.irishstatutebook.ie/eli/2017/si/306/made/en/pdf. S.I. 593 of 2017 Taxes Consolidation Act 1997 (Accelerated Capital Allowances For Energy Efficient Equipment) (Amendment) (No. 2) Order 2017. A copy of the S.I. can be accessed at http://www.irishstatutebook.ie/eli/2017/si/593/made/en/pdf.
39-2	Regulations and legislative measures	Other EPBD-related measures	Amendments, implementation or design changes and extension of an on-going measure	Two new Statutory Instruments to implement Directive 2010/31/EU of the European Parliament and of the Council on the energy performance of buildings was also introduced in 2017. <ul style="list-style-type: none"> S.I. No. 4/2017 - Building Regulations (Amendment) Regulations 2017 provided the definition of Nearly Zero Energy Buildings in Building Regulations. Available at http://www.irishstatutebook.ie/eli/2017/si/4/made/en/print A second statutory instrument was then implemented to specify NZEB performance requirements for new non-residential buildings and Major Renovation requirements for existing buildings. These new performance requirements improve the energy performance in the order of 60% and introduce mandatory renewables on all new non-residential buildings. <ul style="list-style-type: none"> S.I. No. 538 of 2017 Building Regulations (TGD Part L Amendment) Regulations 2017. A copy of the S.I. can be accessed at http://www.irishstatutebook.ie/eli/2017/si/538/made/en/pdf
39-3	Please select	Please select	Please select	
39-4	Please select	Please select	Please select	
39-5	Please select	Please select	Please select	
39-6	Please select	Please select	Please select	
39-7	Please select	Please select	Please select	
39-8	Please select	Please select	Please select	
39-9	Please select	Please select	Please select	
39-10	Please select	Please select	Please select	
40-1	Plans & strategies	Please select	Other	Ireland produced and published its 4th National Energy Efficiency Action Plan (NEEAP) https://www.dccae.gov.ie/documents/NEEAP%204.pdf
40-2	Plans & strategies	Exemplary role and purchasing by public bodies Art. 5 and 6 EED	Other	The first Public Sector Energy Efficiency Strategy (PSEES) was published in January 2017. Implementation of its measures is underway and DCCAE are providing leadership and support working with key stakeholders and the newly appointed Energy Performance Officers (EPOs) in pursuit of the 33% efficiency target for the public sector. Supports available to PS bodies have been enhanced with a focus on building capacity and developing a pipeline of energy efficiency projects.
40-3	Information, knowledge & advice	Exemplary role and purchasing by public bodies Art. 5 and 6 EED	Monitoring information, update on progress or impact assessment results	Each year the SEAI monitors progress on public sector Energy Efficiency through the Monitoring & Reporting (M&R) System. The most recent data on progress (to end 2016) shows 20% efficiency overall has been achieved. In cumulative terms savings achieved 2009-16 amount to €737m in avoided energy spend and 2.66 million tonnes of CO ₂ e. The full report can be found at https://www.seai.ie/resources/publications/2017_Annual_Report_on_Public_Sector_Energy_Efficiency_Performance.pdf
40-4	Competitions, pilot & demonstration projects	Exemplary role and purchasing by public bodies Art. 5 and 6 EED	Adoption of a new measure, conclusion of agreement, publication of legislation, commencement/enforcement of a measure/programme	To support public sector bodies in achieving the 33% efficiency target under the Public Sector Energy Efficiency Strategy, new funding support of €5m was provided by Government through DCCAE in 2017 to support two new pilot projects: <ul style="list-style-type: none"> The Central Government Building Energy Retrofit Pilot – a partnership between the SEAI and OPW – delivered energy upgrades to a number of government buildings. The National Energy Efficiency Upgrade Pilot for Schools, in which SEAI partnered with the Department of Education & Skills, delivered mixed measure retrofits to a number of schools. Results showed a decrease of 36% in energy bills and improved comfort levels for students and teachers. Both projects are informing development of a scalable model for retrofit approaches that can be deployed more widely.

40-5	Major non-legislative in the previous year	Funds, financial measures & fiscal incentives	Other EED-related measures	Other	Commercial Sector enhanced focus - To leverage more of the energy efficiency potential in the commercial sector DCCAE conducted a consultation with businesses on approaches to energy efficiency to inform future policy development. The results of this consultation are available on the DCCAE website at https://www.dccae.gov.ie/en-ie/energy/publications/Pages/Report-on-the-Findings-from-the-DCCAE-Commercial-Sector-Survey-Consultation0328-5224.aspx The new Excellence in Energy Efficiency Design (EXEED) initiative operated by SEAI, focus on building in improved energy efficiency at the design stage of a project and certifies assets when projects implement an EXEED specified standard for energy efficient design management. Results achieved over the 2016-7 period involving 45 projects show average energy efficiencies of 28% being achieved. The EXEED programme will be scaled up significantly from 2018.
40-6		Funds, financial measures & fiscal incentives	Other EED-related measures	Other	Two new pilot initiatives to improve SMEs energy efficiency were launched by SEAI in 2017: • The Pilot Dairy Scheme supports installation of variable speed drive technology in milking parlours, as well as Vacuum Pumps, and smart meters. These technologies can reduce energy consumption considerably on a farm and 47 farms benefitted from the scheme in 2017. • The SME Smart Lighting Pilot scheme supports switching to more energy efficient lighting. In 2017, 60 businesses benefitted from financial support of the Government. Building on the learnings from the 2017 pilot scheme, a new larger scale scheme will be rolled out in 2018.
40-7		Market surveillance	Energy labelling	Other	The objective of enhancing market surveillance services in Ireland was further progressed during 2017 with the SEAI taking on market surveillance responsibilities. This has enabled expansion of key stakeholder engagement. The inspection process has been enhanced with the introduction of a new data collection app which has improved inspection and reporting efficiencies. Tyre inspection and testing has benefited from Irelands participation in the MSTYR15 project. SEAI have worked effectively with key industry stakeholders to promote increased awareness of and compliance with market surveillance related obligations.
40-8		Information, knowledge & advice	Other	Other	A new Behavioural Economics Unit was established in SEAI in 2017. Its focus is to better understand the motivations of key decision makers so policy interventions can take advantage of new communications insights. This new unit is already informing improved effective communication with target groups and has provided guidance to market players on how to more effectively communicate to decision makers the benefits of making more energy efficiency choices.
40-9		Competitions, pilot & demonstration projects	General transposition: Energy Efficiency Directive EED	Adoption of a new measure, conclusion of agreement, publication of legislation, commencement/enforcement of a measure/programme	DCCAE & SEAI launched the Deep Retrofit Pilot Programme . The programme aims to investigate the challenges and opportunities of deep retrofit. The learning from these pilots will inform Ireland's approach towards a large scale deep retrofit of buildings in Ireland. The initial focus is on the residential market.
40-10		Funds, financial measures & fiscal incentives	General transposition: Energy Efficiency Directive EED	Amendments, implementation or design changes and extension of an on-going measure	DCCAE amended the terms of the Better Energy Homes scheme to increase the grants available for certain types of insulation and to introduce a new grant for the installation of renewable heating system in residential properties.
40-11		Funds, financial measures & fiscal incentives	General transposition: Energy Efficiency Directive EED	Amendments, implementation or design changes and extension of an on-going measure	The Better Energy Programme , administered by the Sustainable Energy Authority of Ireland (SEAI) on behalf of DCCAE consists of the Better Energy Homes Scheme, Better Energy Warmer Homes Scheme and Better Energy Communities and pilot schemes. These schemes all received increased funding in 2017.
40-12		Competitions, pilot & demonstration projects	General transposition: Energy Efficiency Directive EED	Amendments, implementation or design changes and extension of an on-going measure	The Warmth and Wellbeing Pilot Scheme was extended to include families with young children and to cover more areas than previously. The research element of the scheme also commenced.
40-13		Market-based instruments (e.g. EEOS)	Energy Efficiency Obligation Scheme Art. 7 EED	Continuation of existing measures/no significant updates	Ireland's Energy Efficiency Obligation Scheme continued in 2017, with a higher annual savings target of 625GWh for the obligated parties.
40-14		Plans & strategies	Renovation roadmap Art. 4 EED	Other	Ireland's second Long Term Renovation Strategy was published: https://www.dccae.gov.ie/documents/20170412%20LTRS.pdf
40-15		Plans & strategies	Renovation roadmap Art. 4 EED	Other	A programme of retrofitting for local authority housing continued during 2017. This measure is likely to have a significant impact on those in or at risk of energy poverty.
40-16		Plans & strategies	Other	Other	Ireland's first National Mitigation Plan (NMP) was published. Its Chapter on the built environment focuses significantly on the importance of progressing energy efficiency objectives in pursuit of climate goals - https://static.rasset.ie/documents/news/national-mitigation-plan-2017.pdf The draft National Planning Framework (NPF) was published. This includes national policy objectives to support climate action and planning and renewable energy generation: http://npf.ie/project-ireland-2040-national-planning-framework/
40-17		Other	Other EED-related measures	Adoption of a new measure, conclusion of agreement, publication of legislation, commencement/enforcement of a measure/programme	Public Transport: Luas Cross City , a major light rail project in Dublin, was completed in December 2017, facilitating increased accessibility to Dublin City Centre by sustainable travel. Fare changes and additional services increased the number of public transport journeys across the State during 2017 by 6.9% compared with 2016. A multi-year framework contract was put in place for the purchase of low emission single deck buses for use on Exchequer subsidised bus services throughout the State. Budget 2018, announced in October 2017 provided a four-year enhanced capital envelope for public transport of over €2.7 billion to 2021.
40-18		Plans & strategies	Other EED-related measures	Other	The National Policy Framework for Alternative Fuels Infrastructure for Transport in Ireland 2017-2030 was published in May 2017. It sets out the ambition that all new cars and vans sold in Ireland from 2030 will be zero emission (or zero emission-capable), alongside a range of policy measures aimed at supporting the transition to low emission vehicles (http://www.dttas.ie/sites/default/files/publications/public-transport/english/npf-picture/6186npfalternative-fuelsengv5.pdf). The National Mitigation Plan, published in July 2017, reiterates this ambition and includes additional supporting actions towards reaching the objective of near complete decarbonisation within the transport sector (https://www.dccae.gov.ie/documents/National%20Mitigation%20Plan%202017.pdf).
40-19		Information, knowledge & advice	Other EED-related measures	Other	To progress the objective of Ireland becoming a leader in the take-up of electric vehicles (EVs) - a dedicated Low Emission Vehicle Taskforce was established in 2017 to consider the range of measures and options available to Government to accelerate this aim. Preliminary recommendations from the Taskforce were considered in the 2018 budgetary process and a suite of continued and new EV supports were announced as part of Budget 2018 http://budget.gov.ie/Budgets/2018/2018.aspx
40-20		Plans & strategies	Other	Other	In December 2017, the draft First Edition of the 'Carbon Offsetting and Reduction Scheme for International Aviation (CORSAI)' Package was published.

Additional requirements Article 24 (1), Annex XIV, Part 1 (c) Energy Efficiency Directive

41-1	Total building floor area [m ²] of the buildings with a total useful floor area over 250 m ² owned and occupied by the Member States' central government on 1 January 2018	335,175 m ²
------	---	------------------------

Total building floor area of the buildings with a total useful floor area over 250 m² owned and occupied by the Member States' central government that, on 1 January of the year in which the report is due, did not meet the energy performance requirements referred to in Article 5(1):

41-2	Total building floor area [m ²] of the buildings which did <u>not meet</u> the energy performance requirements referred to in Article 5(1) on 1 January 2018	335,175 m ²
------	--	------------------------

Additional requirements Article 24 (1), Annex XIV, Part 1 (d) Energy Efficiency Directive

Total building floor area of heated and/or cooled buildings owned and occupied by the Member States' central government that was renovated in the previous year referred to in Article 5(1), or the amount of energy savings in eligible buildings owned and occupied by their central government as referred to in Article 5(6):

Default approach Article 5(1)		
42-1	Total building floor area [m ²] of buildings renovated in 2017 as referred to in Article 5(1)	0 m ²
42-2	Amount of energy savings [ktoe] achieved in 2017 in eligible buildings owned and occupied by their central government due to renovation of buildings as set out in Article 5(1), expressed in primary or final energy	0 ktoe

	Alternative approach Article 5(6)	Policy measure (Please, specify the policy measure)	Amount of energy savings [ktoe] achieved in 2017 in eligible buildings owned and occupied by their central government as referred to in Article 5(6)	
43-1	Alternative measure 1	Large scale behavioural change campaign	0,149	0.149ktoe (1.74GWh) (Note: 2017 compared to 2016) Note: Savings are reported in Alternative measure 1 savings figure
43-2	Alternative measure 2			
43-3	Alternative measure 3			
43-4	Alternative measure 4			
43-5	Alternative measure 5			
43-6	Alternative measure 6			
43-7	Alternative measure 7			
43-8	Alternative measure 8			
43-9	Alternative measure 9			
43-10	Alternative measure 10			
43-11	Amount of energy savings [ktoe] achieved in 2017 in eligible buildings owned and		0,149	
43-12	Sum of energy savings [ktoe] achieved in eligible buildings owned and occupied by		1,000	

Additional requirements Article 24 (1), Annex XIV, Part 1 (e) Energy Efficiency Directive

Energy savings achieved through the national energy efficiency obligation schemes referred to in Article 7(1) or the alternative measures adopted in application of Article 7(9):

Energy savings achieved in 2016 (savings achieved from measures and notified under Article 7(2)(c) and (d) shall not be part of this table)	Policy measure (Please, specify the policy measure)	Savings achieved in 2016 [ktoe] expressed in final energy		Total <u>expected</u> savings [ktoe] by 2020 expressed in final energy (voluntary)	
		Total annual end-use savings achieved [ktoe] in 2016 (amount of savings from new actions implemented in 2016 and from actions implemented in 2014 or 2015 that continue delivering savings in 2016)	thereof savings achieved [ktoe] in 2016 only from <u>new</u> actions that were implemented in 2016		
44-1	EEOS	EEOS	160,7	65,3	400
44-2	Alternative measure 1	SME Programme	2,85	0,95	5,93
44-3	Alternative measure 2	Large Industry Energy Network (LIEN)	14,5	4,8	33,9
44-4	Alternative measure 3	2002 Building Regulations	12,2	4,6	17,6
44-5	Alternative measure 4	2008 Building Regulations	22,1	8,4	32,0
44-6	Alternative measure 5	2011 Building Regulations	13,1	4,2	16,00
44-7	Alternative measure 6	2005 / 2008 Building Regulations - Buildings under than dwellings	54,1	15,0	94,32
44-8	Alternative measure 7	Energy efficient boiler regulations	11,98	1,41	14,87
44-9	Alternative measure 8	Accelerated Capital Allowances (AC) Public and private	5,2	0,9	
44-10	Alternative measure 9	VRT/Motor tax aligned with emissions	33,41	10	37,58
44-11	Alternative measure 10				
44-12	Total savings		330,1	115,6	652,25

Energy savings achieved in 2016 from supply side measures accounted for under Art. 7 (2)(c)	Policy measure (Please, specify the policy measure)	Total annual savings generated in 2016 [ktoe] from supply side measures (amount of savings from new actions implemented in 2016 and actions implemented in 2014 or 2015 that continue delivering savings in 2016) expressed in final energy
45-1	Measure 1	N/A
45-2	Measure 2	N/A
45-3	Measure 3	N/A
45-4	Total savings	N/A

Energy savings achieved in 2016 from early actions accounted for under Art. 7 (2)(d)	Policy measure (Please, specify the policy measure)	Total amount of savings generated in 2016 [ktoe] from early actions that took place between 31/12/2008 and 31/12/2013 expressed in final energy
46-1	Measure 1	N/A
46-2	Measure 2	N/A
46-3	Measure 3	N/A
46-4	Total savings	N/A