

## 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). In case, the data based for reporting are based on national statistics, please, fill in Table B and provide definitions.

Annual Report	2020
Reporting year	2018/2019
Member State	Denmark

### 2020 target

Definition	Energy consumption		
Description	<p>The indicative Danish contribution to achieving the Union's targets for primary energy and final energy in 2020 and 2030 corresponds to the energy consumption in the Danish Energy Agency's 2019 Energy and Climate Outlook published the 30th of August 2019. The primary energy contribution is the gross energy consumption including consumption for non-energy purposes. The consumption for non-energy purposes is also included in the final energy contribution.</p>		
Target level	PEC	FEC	Unit
Value	733,5	635,1	PJ
Transition	N/A	N/A	N/A
If your target is set as a reduction, please provide the baseline (for intensity target also for the reference GDP level)			
Baseline for	Year	Value	
Energy consumption	N/A	N/A	
GDP	N/A	N/A	
If your indicative target has been modified from the initial value submitted in 2013, please specify when, how (increase or decrease) and reasons for modification.			
When	How	Reasons for modification	
PEC	The Danish Energy and Climate Outlook is updated annually	The Danish contribution to achieving the Union's targets for primary energy and final energy in 2020 is based on the Energy and Climate Outlook. This outlook is a projection of energy consumption, GDP development and a number of other factors. Since it is a projection, it is likely to change during the period and thus result in a different indicative 2020 target.	
FEC	744,4 PJ reported as 2020 target in 2014 → 733,5 PJ reported as 2020 target in 2019		
FEC	615,5 PJ reported as 2020 target in 2014 → 635,1 PJ reported as 2020 target in 2019	Se above	

### Table A - Eurostat data (not necessary)

Table B - Data based on national statistics (if different or not available in Eurostat)

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)
81	781,28	(i) primary energy consumption	Adjusted, PJ	Danish Energy Agency			nov-19
82	637,54	(ii) total final energy consumption	Observed, PJ	Danish Energy Agency	No climate adjustment, see p. 39 SWD(2013)180, Annex A		nov-19
83	91,46	(iii) final energy consumption - industry	Adjusted, PJ	Danish Energy Agency			nov-19
84	222,74	(iv) final energy consumption - transport	PJ	Danish Energy Agency			nov-19
85		final energy consumption in pipeline transport			Voluntary - see p. 39 SWD(2013)180, Annex A		
86	197,23	(v) final energy consumption - households	Adjusted, PJ	Danish Energy Agency			nov-19
87	84,76	(vi) final energy consumption - services	Adjusted, PJ	Danish Energy Agency			nov-19
88	26,02	final energy consumption - agriculture	Adjusted, PJ	Danish Energy Agency	Voluntary		nov-19
89	12,02	final energy consumption - other sectors	Adjusted, PJ	Danish Energy Agency	Voluntary		nov-19
810	250,65	(v) gross value added - industry	Billion DKK, Constant 2010 prices	Denmark Statistic			sept-19
811	1344,84	(vi) gross value added - services	Billion DKK, Constant 2010 prices	Denmark Statistic			sept-19
812	376,53	(v) disposable income for households	1000 DKK	Denmark Statistic			sept-19
813	2051,89	(v) gross domestic product (GDP)	Billion DKK, Constant 2010 prices	Denmark Statistic			sept-19
814	59,22	(v) gross electricity generation from thermal power generation	PJ	Danish Energy Agency			nov-19
815	55,78	(v) gross electricity generation from CHP	PJ	Danish Energy Agency			nov-19
816	134,93	(v) gross heat production from thermal power generation	PJ	Danish Energy Agency			nov-19
817		Waste heat produced in industrial installations			Voluntary - see p. 39 SWD(2013)180, Annex A		
818	89,36	(v) gross heat production from CHP	PJ	Danish Energy Agency			nov-19
819		Waste heat recovered from industrial installations			Voluntary - see p. 39 SWD(2013)180, Annex A		
820	124,16	(v) Transformation input for electricity and heat generation	PJ	Danish Energy Agency			nov-19
821	7783,00	(v) passenger kilometres	Million person kilometres	Danish Road Directorate			aug-19
822	12057,70	(v) tonne kilometres	Million tonne kilometres	Danish Road Directorate			aug-19
823	5782,19	(v) population	1000 Persons	Denmark Statistic			sept-19
824	2070,11	Total number of households	1000 households	Denmark Statistic	Voluntary - see p. 39 SWD(2013)180, Annex A		sept-19
825	34,91	Energy transmission and distribution losses (all fuels)	PJ	Danish Energy Agency	Voluntary - see p. 39 SWD(2013)180, Annex A		nov-19
826	45,57	Heat generation from district heating plants	PJ	Danish Energy Agency	Voluntary - see p. 39 SWD(2013)180, Annex A		nov-19
827	42,26	Fuel input in district heating plants	PJ	Danish Energy Agency	Voluntary - see p. 39 SWD(2013)180, Annex A		nov-19

**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	Increase of value added	Please select	Strong decline in energy consumption from 2006 to 2014 (28%). Hereafter has the energy consumption been growing until 2017. From 2017 total 2018 is the energy consumption stable. The main reason for the development of energy consumption since 2014 is economic growth (increase in value added). There has over the whole period been a strong improvement of energy efficiency. There has also been structural change, which reduce consumption.
35	Transport	Increase of transport of goods	Increase of transport of passengers	Please select	Final energy used for transport was reduced by 8 pct. fra 2007 to 2013. From 2013 til 2018 has the consumption increased by 8.5 pct. This is linked to more transport work (both good and passengers) and less improvement of the efficiency of new cars (bigger cars).
36	Households	Increase of population and/or households	Economic growth	Please select	Total final energy consumption in households has been almost stable since 2005. Final energy consumption for heating has increased from 2013 to 2018, and it has increased more than the growth in heating floor area. Electricity consumption for lighting and appliances has been stable the last 15 year despite a growth in the number of appliances.
37	Services	Economic growth	Please select	Please select	Final energy consumption in the service sector has been almost stable over the last 10 years with a small increase from 2015 to 2018. Over the same period has been a substantial economic growth in this sector. This has ben outweighed by an increase in energy efficiency.
38	Agriculture (voluntary)	Increase of value added	Please select	Please select	Final energy consumption has been stable for the last 10-15 years. Since 1990 hs the energy intensity been reduced by 50 pct.

**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:

	Type of measure	Legal basis	Type of update	Please, insert explanations or provide a link to an extra/additional document:
39-1	Please select	Please select	Please select	
39-2	Please select	Please select	Please select	
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	Information, knowledge & advice	Consumer information, empowering programme, information and training Art. 12 and 17 EED	Adoption of a new measure, conclusion of agreement, publication of legislation, commencement/enforcement of a measure/programme	218 mio. DKK was allocated the in the energy agreement 2018 to new data and information initiatives for the period 2018-2024. Of these funds, 33 mio. DKK was allocated for 2019.
40-2	Please select	Please select	Please select	
40-3	Please select	Please select	Please select	
40-4	Please select	Please select	Please select	
40-5	Please select	Please select	Please select	
40-6	Please select	Please select	Please select	
40-7	Please select	Please select	Please select	
40-8	Please select	Please select	Please select	
40-9	Please select	Please select	Please select	
40-10	Please select	Please select	Please select	

Progress on additional measures introduced or planned to reach the 2020 target (in the context of the Task Force on Mobilising Efforts to Reach the EU Energy Efficiency Targets for 2020):

	Type of measure	Legal basis	Brief description of the measure (please indicate when it was implemented)	Expected (additional) energy savings	Additional information
Strengthening of existing measures or new measures	Please select	Please select			
	Please select	Please select			
	Please select	Please select			

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

41-1	Total building floor area (m <sup>2</sup> ) of the buildings with a total useful floor area over 250 m <sup>2</sup> owned and occupied by the Member States' central government on 1 January 2020	1.826.510
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Total building floor area of the buildings with a total useful floor area over 250 m<sup>2</sup> 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 <sup>2</sup> ) of the buildings which did not meet the energy performance requirements referred to in Article 5(1) on 1 January 2020	1.078.297
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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 <sup>2</sup> ) of buildings renovated in 2019 as referred to in Article 5(1)	N/A
42-2	Amount of energy savings (ktoe) achieved in 2019 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 (please specify)	N/A
42-3	Sum of energy savings (ktoe) achieved 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 over the time period 2014-2019	N/A

Please sum new savings achieved in each year (from 2014 to 2019):

Alternative approach Article 5(6)	Policy measure (Please, specify the policy measure)	Amount of energy savings (ktoe) achieved in 2018 in eligible buildings owned and occupied by their central government as referred to in Article 5(6)	Amount of energy savings (ktoe) achieved in the period 2014-2017 in eligible buildings owned and occupied by their central government as referred to in Article 5(6)
43-1	Alternative measure 1 <ul style="list-style-type: none"> <li>• Purchasing more efficient light sources and appliances, such as LED bulbs and computers.</li> <li>• Improvement of buildings' climate screen, eg post insulation or new windows</li> <li>• New installations, eg renovation of heating system, ventilation with heat recovery, etc.</li> <li>• Streamlining of energy supply, eg replacing oil furnace with heat pumps or district heating.</li> <li>• Water savings through replacing toilets and fittings, etc.</li> <li>• Other actions such as relocation, energy screenings and behavioral campaigns.</li> </ul>	0,092	2014: Energy consumption increased 0,752 2015: 2,737 2016: 0,416 2017: 0,258
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 2018 in eligible buildings owned and occupied by their central government as referred to in Article 5(6), in primary or final energy	0,092	2,659
43-12	Sum of energy savings (ktoe) achieved in eligible buildings owned and occupied by their central government through the implementation of Article 5(6) in primary or final energy over the time period 2014-2018	2,751	2,751

latest year

Please sum new savings achieved in each year (from 2014 to 2018) i.e. corresponding to 3% renovation rate.

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 2018 (savings achieved from measures and notified under Article 7(2)(a) and (b) shall not be part of this table)	Policy measure (Please, specify the policy measure)	Savings achieved in 2018 [ktoe] expressed in final energy*			Total cumulative expected savings [ktoe] by 2020 expressed in final energy (voluntary)	
		Total annual end-use savings achieved [ktoe] in 2018 (amount of savings from new actions implemented from 2014 to 2018 that delivered savings in 2018)	Thereof savings achieved [ktoe] in 2018 only from new actions that were implemented in 2018	Total cumulative end-use savings achieved [ktoe] from 2014 to 2018		
44-1	ECOS	Danske energisparordning/Danish Energy efficiency obligation scheme	1045,43	173,16	3187,88	5895,97
44-2	Alternative measure 1					
44-3	Alternative measure 2					
44-4	Alternative measure 3					
44-5	Alternative measure 4					
44-6	Alternative measure 5					
44-7	Alternative measure 6					
44-8	Alternative measure 7					
44-9	Alternative measure 8					
44-10	Alternative measure 9					
44-11	Alternative measure 10					
44-12	Total savings		1045,43	173,16	3187,88	5895,97

\* In case of changes in the reported new energy savings, total annual energy savings and cumulative energy savings for 2014, 2015, 2016 or 2017, please provide revised figures for each policy measure concerned and the total

Energy savings achieved in 2018 from supply side measures accounted for under Art. 7 (2)(c)	Policy measure (Please, specify the policy measure)	Total annual savings generated in 2018 [ktoe] from supply side measures (amount of savings from new actions implemented from 2014 to 2018 that delivered savings in 2018) expressed in final energy	
45-1	Measure 1	Danske energisparordning/Danish Energy efficiency obligation scheme	78,66
45-2	Measure 2		
45-3	Measure 3		
45-4	Total savings		78,66

Energy savings achieved in 2018 from early actions accounted for under Art. 7 (2)(b)	Policy measure (Please, specify the policy measure)	Total amount of savings generated in 2018 [ktoe] from early actions that took place between 31/12/2008 and 31/12/2013 expressed in final energy	
46-1	Measure 1	Danske energisparordning/Danish Energy efficiency obligation scheme	790,6
46-2	Measure 2		
46-3	Measure 3		
46-4	Total savings		790,6

The earlier version of the Danish obligation scheme was a national initiative and thus did not fulfill the EU requirements for project lifetimes. The data is therefore insufficient to determine to what degree these projects are still generating energy savings in 2018.