

Measure-specific data

Road fuel demand projections Note: taken from SEAI 2015 Energy Forecast (S:Strategy and Innovation|Energy Modelling)Forecast 2014|Forecast output 20150210). Data below for 2 scenarios (Baseline and NREAP/NEEAP) - have used baseline data for now.

Baseline (taken from 'Baseline - Output' tab)											Transport fuel demand (ktoe)																											
	2013	2014	2015	2016	2017	2018	2019	2020	2025	2030	2035	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035				
Transport (ktoe)	675	748	846	868	860	931	953	973	1,024	1,058	1,101	1,103	1,045	966	847	867	902	933	956	974.3	992.5	1,016.6	1,038.7	1,047	1,025.9	1,005.1	984.2	963.3	942	952.8	932.0	911.1	890.2	994				
Kerosene	1,082	1,184	1,266	1,363	1,481	1,539	1,576	1,603	1,669	1,563	1,622	1,603	1,539	1,467	1,481	1,539	1,576	1,603	1,669	1,563	1,622	1,603	1,539	1,467	1,481	1,539	1,576	1,603	1,669	1,563	1,622	1,603	1,539	1,467	1,481	1,539		
Diesel Cars	875	917	922	1,022	1,160	1,263	1,318	1,417	1,571	1,581	1,568	875	917	922	1,022	1,160	1,263	1,318	1,417	1,571	1,581	1,568	875	917	922	1,022	1,160	1,263	1,318	1,417	1,571	1,581	1,568	875	917	922	1,022	
Diesel Freight	1,103	1,045	966	847	867	902	933	956	1,047	942	994	1,103	1,045	966	847	867	902	933	956	1,047	942	994	1,103	1,045	966	847	867	902	933	956	1,047	942	994	1,103	1,045	966	847	
Petrol Cars	305	236	219	362	528	528	527	526	519	467	397	305	236	219	362	528	528	527	526	519	467	397	305	236	219	362	528	528	527	526	519	467	397	305	236	219	362	
Fuel Tourism	2	11	25	10	10	10	10	10	10	10	10	2	11	25	10	10	10	10	10	10	10	10	2	11	25	10	10	10	10	10	10	10	10	10	10	2		
Fuel Tourism Petrol	304	225	194	352	519	518	517	509	457	387	317	304	225	194	352	519	518	517	509	457	387	317	304	225	194	352	519	518	517	509	457	387	317	304	225	194	352	
Fuel Tourism Diesel	93	78	84	146	150	150	150	149	142	90	21	93	78	84	146	150	150	150	149	142	90	21	93	78	84	146	150	150	150	149	142	90	21	93	78	84	146	
Other Petrol (public transports and undetermined)	211	148	110	206	368	368	367	367	367	367	367	211	148	110	206	368	368	367	367	367	367	367	211	148	110	206	368	368	367	367	367	367	367	367	211	148	110	
Other Diesel (public transports and undetermined)	2369	2521	2730	2954	3231	3387	3475	3594	3803	3711	3754	2369	2521	2730	2954	3231	3387	3475	3594	3803	3711	3754	2369	2521	2730	2954	3231	3387	3475	3594	3803	3711	3754	2369	2521	2730	2954	
Tot Diesel	1197	1134	1075	1003	994	1026	1046	1078	1158	1007	990	1197	1134	1075	1003	994	1026	1046	1078	1158	1007	990	1197	1134	1075	1003	994	1026	1046	1078	1158	1007	990	1197	1134	1075	1003	
Tot Petrol	3.6	3.4	3.5	3.8	3.8	4.8	4.8	4.8	5	6	6	3.6	3.4	3.5	3.8	3.8	4.8	4.8	4.8	5	6	6	3.6	3.4	3.5	3.8	3.8	4.8	4.8	4.8	5	6	6	3.6	3.4	3.5		
Rail	0	0	0	0	1	1	2	3	20	144	173	0	0	0	0	1	1	2	3	20	144	173	0	0	0	0	0	1	1	2	3	20	144	173	0	0	0	
EV	102	116	128	138	134	132	137	140	219	210	211	102	116	128	138	134	132	137	140	219	210	211	102	116	128	138	134	132	137	140	219	210	211	102	116	128	138	134
Biofuel (renewables)	74	90	98	104	101	100	104	107	123	121	119	74	90	98	104	101	100	104	107	123	121	119	74	90	98	104	101	100	104	107	123	121	119	74	90	98	104	
Biogasoline	29	27	30	34	32	33	34	36	37	37	37	29	27	30	34	32	33	34	36	37	37	37	29	27	30	34	32	33	34	36	37	37	37	29	27	30	34	
Electricity	4	3	4	4	5	6	7	8	24	150	179	4	3	4	4	5	6	7	8	24	150	179	4	3	4	4	5	6	7	8	24	150	179	4	3	4	4	
Of which is Renewable*2.5	2	2	2	2	3	3	3	4	4	5	4.62	2	2	2	2	3	3	3	4	4	5	4.62	2	2	2	2	3	3	3	4	4	5	4.62	2	2	2		
Total	4348	4522	4782	4947	5274	5541	5676	5855	6229	6137	6235	4348	4522	4782	4947	5274	5541	5676	5855	6229	6137	6235	4348	4522	4782	4947	5274	5541	5676	5855	6229	6137	6235	4348	4522	4782	4947	
Total For RES-T	3674	3775	3937	4080	4559	4761	4878	5045	5401	5457	5557	3674	3775	3937	4080	4559	4761	4878	5045	5401	5457	5557	3674	3775	3937	4080	4559	4761	4878	5045	5401	5457	5557	3674	3775	3937	4080	

Speed Limit Reduction Fuel Savings																				
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Private cars	9,873,198	10,106,346	10,509,845	11,117,025	11,886,939	12,720,174	13,626,662	14,611,111	15,685,990	16,859,772	18,133,554	19,507,336	20,981,118	22,554,900	24,228,682	25,999,464	27,868,246	29,835,028	31,899,810	34,063,592
Petrol fuel consumption (litres)	18,696,136	20,323,994	21,117,025	22,720,174	24,414,888	26,209,990	28,105,092	30,099,194	32,194,296	34,389,398	36,684,500	39,079,602	41,574,704	44,169,806	46,864,908	49,660,010	52,555,112	55,550,214	58,645,316	61,840,418
Diesel fuel consumption (litres)	28,569,334	30,430,340	31,626,870	33,063,400	34,650,930	36,388,460	38,276,990	40,314,520	42,502,050	44,839,580	47,327,110	50,064,640	52,952,170	56,090,700	59,479,230	63,117,760	66,916,290	70,874,820	75,093,350	79,571,880
Total fuel consumption (litres)	47,265,470	50,754,334	52,743,895	55,783,574	59,065,820	62,603,420	66,382,100	70,513,714	74,696,346	79,228,978	84,013,610	89,144,212	94,726,814	100,660,506	106,944,190	113,582,770	120,570,380	128,014,130	135,934,268	144,412,368

LGVs																				
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Diesel fuel consumption (litres)	18,217,189	20,671,474	22,520,786	24,569,100	26,828,414	29,297,728	31,977,042	34,866,356	37,975,670	41,405,984	45,157,298	49,231,612	53,630,926	58,357,240	63,411,554	68,794,868	74,508,182	80,552,496	86,936,810	93,661,124

HGVs																				
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Diesel fuel consumption (litres)	9,630,569	10,928,034	11,905,678	12,983,322	14,161,966	15,450,610	16,849,254	18,357,898	19,976,542	21,705,186	23,543,830	25,492,474	27,551,118	29,719,762	31,998,406	34,387,050	36,885,694	39,494,338	42,213,982	45,043,626

Carbon Tax										
Parameter	Value	Units	Notes							
Current carbon tax	20	€/t								
Carbon tax cost per litre petrol (inc. VAT)	0.05586	€/litre	See: http://www.theaa.ie/blog/a-breakdown-of-irish-fuel-taxes-and-hikes-in-ireland/							
Carbon tax cost per litre diesel (inc. VAT)	0.06517	€/litre	See: http://www.theaa.ie/blog/a-breakdown-of-irish-fuel-taxes-and-hikes-in-ireland/							
Current VAT rate	23%	%	See: http://www.theaa.ie/blog/a-breakdown-of-irish-fuel-taxes-and-hikes-in-ireland/							
Carbon tax cost per litre petrol (excl. VAT)	0.0454	€/litre								
Carbon tax cost per litre diesel (excl. VAT)	0.0530	€/litre								
Tonnes of CO2 emitted per litre petrol	0.002271	tCO2/litre	Back calculation to arrive at the assumption for CO2 emitted per litre of petrol							
Tonnes of CO2 emitted per litre diesel	0.002649	tCO2/litre	Back calculation to arrive at the assumption for CO2 emitted per litre of diesel							
Anticipated carbon tax 2026-2030	35	€/t	Table 3: http://cdr.eionet.europa.eu/ie/eu/mmi/art04-13-14_ids_pams_projections/envv4k3a/GHG_Projections_Methodology_for_MM_2015v1_final.pdf							

Value of time										
Parameter	Value	Units	Notes							
In-work	38.42	€/hour	Values from DTAS Common Appraisal Framework expressed in 2016 prices							
Leisure	14.27	€/hour	Values from DTAS Common Appraisal Framework expressed in 2016 prices							
Commuting	15.70	€/hour	Values from DTAS Common Appraisal Framework expressed in 2016 prices							

Fuel price breakdown										
Parameter	Value	Units	Notes							
NORA levy 2016 (excl. VAT)	0.02	€/litre	NORA							
Carbon tax 2016 (excl. VAT)	0.05586	€/litre								
Excise duty petrol 2016 (excl. VAT)	0.5418	€/litre	IPIA - http://www.ipia.ie/wp-content/files_mf/what_determines_pump_prices18.pdf							
Excise duty diesel 2016 (excl. VAT)	0.4257	€/litre	IPIA - http://www.ipia.ie/wp-content/files_mf/what_determines_pump_prices18.pdf							
Better Energy Levy 2016 (excl. VAT)	0.0012	€/litre	IPIA - http://www.ipia.ie/wp-content/files_mf/what_determines_pump_prices18.pdf							
VAT 2016	23%	%								

Diesel rebate scheme											
Price (VAT inclusive) € per litre										Notes	
>=1.54	>=1.50	>=1.45	>=1.40	>=1.35	>=1.30	>=1.27	<=1.24				Diesel