

Member State	NUTS2-Code	NUTS region	Wheat ethanol (winter wheat)		Wheat ethanol Spring wheat		Pure vegetable oil from rape seed		Rape seed biodiesel		Sunflower biodiesel		Soybean biodiesel		Corn (maize) ethanol, Community produced		Rye Ethanol		Pure vegetable oil from Sunflower		Barley Ethanol (summer barley)		Triticale Ethanol		Barley Ethanol Winter barley	
			gCO2eq/MJ Ethanol	gCO2eq/kg Wheat	gCO2eq/MJ Ethanol	gCO2eq/kg Wheat	gCO2eq/MJ Veg. oil	gCO2eq/kg Rape	gCO2eq/MJ Biodiesel	gCO2eq/kg Rape	gCO2eq/MJ Biodiesel	gCO2eq/kg Sunflower	gCO2eq/MJ Biodiesel	gCO2eq/kg Soy	gCO2eq/MJ Ethanol	gCO2eq/kg Corn	gCO2eq/MJ Ethanol	gCO2eq/kg Rye	gCO2eq/MJ Veg. oil	gCO2eq/kg Sunflower	gCO2eq/MJ Ethanol	gCO2eq/kg Barley	gCO2eq/MJ Ethanol	gCO2eq/kg Triticale	gCO2eq/MJ Ethanol	gCO2eq/kg W-Barley
ES	ES23	La Rioja	25						--	8																
ES	ES24	Aragon	38						29	16																
ES	ES30	Comunidad de Madrid	33						--	14																
ES	ES41	Castilla y León	30						26	12																
ES	ES42	Castilla-La Mancha	39						26	15																
ES	ES43	Extremadura	27						27	13																
ES	ES61	Andalucía	38						26	8																
ES	ES51	Cataluna	22						28	14																
ES	ES52	Comunidad Valenciana	32						26	15																
ES	ES53	Balearen	36						--	9																
ES	ES62	Región de Murcia	53						--	26																
ES	ES70	Canarias	27						--																	
Slovenia																										
SI		Eastern Slovenia	19.9						22.3	--					14.0											
SI		Western Slovenia	22.7						27.0	--					13.9											
Slovak Republik																										
SK	SK01	Bratislava	23.88	338					23.42	587					16.24	267										
SK	SK02	West Slovakia	23.16	328					24.47	613					16.11	265										
SK	SK03	Central Slovakia	23.46	332					26.85	673					18.16	299										
SK	SK04	East Slovakia	23.90	339					28.19	706					18.45	303										
Romania Stand																										
RO		ALBA	20						21	27					27											
RO		ARAD	20						19	19					21											
RO		ARGES	20						19	20					21											
RO		BACAU	20						20	24					25											
RO		BIHOR	20						19	20					21											
RO		BISTRITA-NASAUD	21						20	24					25											
RO		BOTOSANI	20						20	21					23											
RO		BRAILA	21						19	19					21											
RO		BRASOV	21						19	19					21											
RO		BUZAU	21						20	21					23											
RO		CALARASI	21						19	17					20											
RO		CARAS-SEVERIN	20						19	18					20											
RO		CLUJ	20						20	23					24											
RO		CONSTANTA	20						20	22					23											
RO		COVASNA	21						19	19					22											
RO		DAMBOVITA	21						19	17					20											
RO		DOLJ	20						19	20					21											
RO		GALATI	20						19	20					22											
RO		GIURGIU	21						20	19					21											
RO		GORJ	20						19	19					21											
RO		HARGHITA	22						22	31					31											
RO		HUNEDOARA	20						19	20					22											
RO		IALOMITA	21						19	18					20											
RO		IASI	20						20	23					24											
RO		ILFOV	21						20	18					20											
RO		MARAMURES	21						19	18					20											
RO		MEHEDINTI	19						18	20					21											
RO		MUNICIPIUL BUCURESTI	22						20	19					21											
RO		MURES	20						20	24					24											
RO		NEAMT	20						19	20					22											
RO		OLT	20						19	22					23											
RO		PRAHOVA	21						20	19					21											
RO		SALAJ	20						20	22					23											
RO		SATU MARE	21						19	18					20											
RO		SIBIU	21						20	24					24											
RO		SUCEAVA	20						19	21					23											
RO		TELEORMAN	20						19	19					20											
RO		TIMIS	20						19	19					21											
RO		TULCEA	21						19	21					23											
RO		VALCEA	20						19	20					22											
RO		VASLUI	20						20	21					22											
Portugal																										
PT	PT11	North	145						--	--					69											
PT	PT15	Algarve	133						--	--					31											
PT	PT16	Centre	50						33	13/23					18											
PT	PT18	Alentejo	46						33	14/23					22											
PT	PT20	Madeira	129						--	--					--											
PT	PT30	Azores	--						--	--					98											
Poland																										
PL		Dolnośląskie	22.69	298					24.60	574					19.20	281										
PL		Kujawsko-Pomorskie	22.97	302					25.59	598					19.82	290										
PL		Lubelskie	22.47	295					24.65	576					19.36	284										
PL		Lubuskie	22.20	291					22.19	518					19.24	282										
PL		Łódzkie	20.84	274					24.40	570					19.51	286										
PL		Małopolskie	22.51	296					25.43	594					19.13	280										
PL		Mazowieckie	22.77	299					24.09	563					18.59	272										
PL		Opolskie	22.69	298					25.79	602					19.65	288										

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			gCO2eq/MJ Ethanol	gCO2eq/kg Wheat	gCO2eq/MJ Ethanol	gCO2eq/kg Wheat	gCO2eq/MJ Veg. oil	gCO2eq/kg Rape	gCO2eq/MJ Biodiesel	gCO2eq/kg Rape	gCO2eq/MJ Biodiesel	gCO2eq/kg Sunflower	gCO2eq/MJ Biodiesel	gCO2eq/kg Soy	gCO2eq/MJ Ethanol	gCO2eq/kg Corn	gCO2eq/MJ Ethanol	gCO2eq/kg Rye	gCO2eq/MJ Veg. oil	gCO2eq/kg Sunflower	gCO2eq/MJ Ethanol	gCO2eq/kg Barley	gCO2eq/MJ Ethanol	gCO2eq/kg Triticale	gCO2eq/MJ Ethanol	gCO2eq/kg W-Barley	
PL		Podkarpackie	19.80	260					21.32	498					18.61	273											
PL		Podlaskie	22.33	293					28.25	660					19.57	287											
PL		Pomorskie	22.80	299					26.56	620					25.47	373											
PL		Śląskie	22.75	299					25.54	596					19.87	291											
PL		Świętokrzyskie	21.59	283					24.08	562					20.55	301											
PL		Warmińsko-Mazurskie	22.84	300					24.02	561					27.17	398											
PL		Wielkopolskie	22.05	290					21.79	509					17.94	263											
PL		Zachodnio-Pomorskie	22.83	300					23.74	554					24.88	365											
Netherlands																											
NL	NL110	Groningen	25.2	382					25.3	658					16.2	280											
NL	NL120	Friesland	24.9	378					25.0	652					15.9	275											
NL	NL130	Drenthe	24.2	367					25.6	666					16.0	277											
NL	NL210	Overijssel	24.5	372					26.1	679					16.6	287											
NL	NL220	Gelderland	25.2	383					25.5	665					16.3	282											
NL	NL230	Flevoland	23.2	352					26.7	697					16.0	277											
NL	NL310	Utrecht	24.3	369					26.3	685					16.6	287											
NL	NL320	Noord-Holland	24.4	371					26.3	685					16.7	289											
NL	NL330	Zuid-Holland	23.9	363					24.9	650					16.3	282											
NL	NL340	Zeeland	23.5	356					24.0	626					16.3	282											
NL	NL410	Noord-Brabant	23.1	350					24.3	634					16.1	279											
NL	NL420	Limburg	22.3	338					24.1	628					15.7	272											
Malta																											
MT		Malta	--	--				--	--	--			--	--	--	--											
Luxemburg																											
LU		Luxemburg	21.5	320					23.6	545																	
Latvia																											
			--	--				--	--	21.8	567			--	--	--	--										
Lithuania																											
LT	LT001	Alytus county	22.81						26.70																		
LT	LT002	Kaunas county	20.02						24.56																		
LT	LT003	Klaipėda county	22.12						28.17																		
LT	LT004	Marijampolė county	20.27						24.56																		
LT	LT005	Panėvėžys county	22.41						26.70																		
LT	LT006	Šiauliai county	21.12						25.58																		
LT	LT007	Tauragė county	21.53						26.61																		
LT	LT008	Telšiai county	22.75						28.20																		
LT	LT009	Utena county	21.72						28.88																		
LT	LT00A	Vilnius county	21.77						28.75																		
Italy																											
IT		Abruzzo					28.16	696	27.11	696	--	--	--	--													
IT		Basilicata					28.5	704	27.44	704	--	--	--	--													
IT		Campania					26.39	651	25.41	651	--	--	--	--													
IT		Emilia Romagna					23.97	590	23.07	590	26.57	682	15.79	367													
IT		Friuli Venezia Giulia					23.98	591	23.09	591	--	--	17.03	396													
IT		Lazio					19.57	480	18.84	480	25.74	660	--	--													
IT		Lombardia					23.95	590	23.06	590	--	--	13.59	316													
IT		Marche					26.56	655	25.57	655	27.16	697	--	--													
IT		Molise					28.5	704	27.44	704	29.23	751	--	--													
IT		Piemonte					24.45	603	23.53	603	--	--	11.07	257													
IT		Puglia					29.11	719	28.02	719	29.23	751	--	--													
IT		Toscana					34.77	861	33.47	861	32.64	839	--	--													
IT		Umbria					35.18	872	33.87	872	38.53	993	--	--													
IT		Veneto					28.06	694	27.02	694	21.9	560	15.63	363													
Ireland																											
IE	IE01	the Border, Midlands and West	20				24		24																		
IE	IE02	Southern and Eastern Region	20				24		24																		
Hungary																											
HU	HU10	Central Hungary	22.30	331			24.00	629	25.60	629	16.30	412	--	--	12.00	195											
HU	HU32	North Great Plain	21.90	325			22.60	593	24.10	593	16.00	404	--	--	11.40	185											
HU	HU33	South Great Plain	20.20	300			21.60	567	23.10	567	15.20	383	--	--	11.70	189											
HU	HU31	North Hungary	22.00	327			23.00	602	24.50	602	16.30	412	--	--	12.80	207											
HU	HU22	West Transdanubia	20.70	307			18.90	496	20.20	496	14.80	374	--	--	11.20	182											
HU	HU21	Central Transdanubia	20.00	297			19.80	518	21.10	518	14.60	369	--	--	10.70	174											
HU	HU23	South Transdanubia	18.60	276			18.70	491	20.00	491	14.10	355	--	--	10.30	167											
Greece																											
GR		Thessaly	19.54	215					--	--	17.50	277	18.97	155	19.33	216											
GR		Epirus	20.50	226					--	--	16.19	256	18.97	155	19.73	220											
GR		West Macedonia	20.28	224					--	--	17.39	275	18.97	155	19.79	221											
GR		East Macedonia & Thrace	20.42	225					26.10	414	15.33	242	18.97	155	19.81	221											
GR		Central Macedonia	21.18	233					26.10	414	17.52	277	18.97	155	20.00	223											
GR		Continental Greece & Euboea	20.57	227					--	--	17.73	280	18.97	155	19.77	221											
GR		Western Greece	21.01	231					--	--	17.46	276	18.97	155	19.80	221											
GR		Peloponnese	20.23	223											19.98	223											

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			gCO2eq/MJ Ethanol	gCO2eq/kg Wheat	gCO2eq/MJ Ethanol	gCO2eq/kg Wheat	gCO2eq/MJ Veg. oil	gCO2eq/kg Rape	gCO2eq/MJ Biodiesel	gCO2eq/kg Rape	gCO2eq/MJ Biodiesel	gCO2eq/kg Sunflower	gCO2eq/MJ Biodiesel	gCO2eq/kg Soy	gCO2eq/MJ Ethanol	gCO2eq/kg Corn	gCO2eq/MJ Ethanol	gCO2eq/kg Rye	gCO2eq/MJ Veg. oil	gCO2eq/kg Sunflower	gCO2eq/MJ Ethanol	gCO2eq/kg Barley	gCO2eq/MJ Ethanol	gCO2eq/kg Triticale	gCO2eq/MJ Ethanol	gCO2eq/kg W-Barley		
Germany																												
DE	DE11	Stuttgart	21.3	317					23.5	545					14.0	204												
DE	DE12	Karlsruhe	21.5	319					23.6	546					14.0	203												
DE	DE13	Freiburg	21.5	320					23.6	546					14.0	203												
DE	DE14	Tübingen	21.3	317					23.5	543					14.0	203												
DE	DE21	Oberbayern	21.4	318					23.6	547					14.0	203												
DE	DE22	Niederbayern	21.3	316					23.5	544					13.9	202												
DE	DE23	Oberpfalz	21.3	317					23.8	550					14.1	204												
DE	DE24	Oberfranken	21.7	323					24.0	555					14.3	207												
DE	DE25	Mittelfranken	21.6	320					23.9	552					14.2	206												
DE	DE26	Unterfranken	21.5	320					23.8	550					14.2	206												
DE	DE27	Schwaben	21.2	315					23.5	544					14.0	204												
DE	DE30	Berlin	22.0	328					24.4	563					14.4	209												
DE	DE41	Brandenburg - Nordost	21.7	323					23.8	551					14.4	208												
DE	DE42	Brandenburg - Südwest	21.8	325					23.9	553					14.5	210												
DE	DE50	Bremen	21.4	318					24.8	574					14.2	205												
DE	DE60	Hamburg	21.3	317					23.6	546					14.1	204												
DE	DE71	Darmstadt	21.2	315					23.6	547					14.1	205												
DE	DE72	Gießen	21.4	318					23.8	551					14.3	208												
DE	DE73	Kassel	21.2	315					23.9	552					14.5	210												
DE	DE80	Mecklenburg-Vorpommern	21.4	318					23.6	546					14.3	208												
DE	DE91	Braunschweig	21.1	314					23.8	551					14.2	206												
DE	DE92	Hannover	21.1	314					23.8	550					14.1	205												
DE	DE93	Lüneburg	21.3	317					24.0	555					14.2	206												
DE	DE94	Weser-Ems	21.3	317					23.9	552					14.2	205												
DE	DEA1	Düsseldorf	21.2	315					23.7	547					13.9	201												
DE	DEA2	Köln	21.0	313					23.7	548					14.0	203												
DE	DEA3	Münster	21.3	316					23.9	552					14.0	204												
DE	DEA4	Detmold	21.2	315					23.7	549					14.2	206												
DE	DEA5	Arnsberg	21.1	314					23.9	552					14.1	205												
DE	DEB1	Koblenz	21.4	319					23.6	546					14.1	205												
DE	DEB2	Trier	21.6	321					23.7	549					14.1	205												
DE	DEB3	Rheinessen-Pfalz	21.6	321					23.8	550					14.1	205												
DE	DECO	Saarland	21.5	320					23.9	552					14.4	210												
DE	DED1	Chemnitz	21.4	318					23.8	550					14.1	205												
DE	DED2	Dresden	21.4	319					23.9	552					14.2	206												
DE	DED3	Leipzig	21.4	318					23.7	549					14.1	205												
DE	DEEO	Sachsen-Anhalt	21.3	317					23.7	548					14.1	205												
DE	DEFO	Schleswig-Holstein	21.1	313					23.6	546					14.1	204												
DE	DEGO	Thüringen	21.4	318					23.8	551					14.1	204												
France																												
FR		Alsace	20	290					23	675	--	--			10	164												
FR		Aquitaine	--	--					26	744	17	485			13	214												
FR		Auvergne	--	--					28	797	12	342			11	181												
FR		Lower Normandy	20	290					22	626	--	--			8	131												
FR		Burgundy	23	333					25	712	13	371			11	181												
FR		Brittany	19	275					20	567	--	--			7	115												
FR		Centre	23	333					24	683	15	428			11	181												
FR		Champagne-Ardenne	21	305					23	655	13	370			11	181												
FR		Frache-Comté	23	333					25	710	--	--			12	197												
FR		Upper Normandy	18	261					21	598	--	--			10	164												
FR		ÎLE-DE-FRANCE	20	290					23	655	12	342			11	181												
FR		Languedoc-Roussillon	--	--					27	767	12	319			--	--												
FR		Limousin	--	--					28	797	16	456			--	--												
FR		Lorraine	22	319					24	683	--	--			11	181												
FR		Midi-Pyrénées	--	--					28	794	17	485			12	204												
FR		Nord/Pas-de-Calais	18	261					19	541	--	--			8	132												
FR		Loire Region	21	304					23	655	14	399			10	164												
FR		Picardy	19	275					22	626	--	--			10	164												
FR		Poitou-Charentes	23	333					25	712	16	456			13	214												
FR		Provence-Alpes-Côte-d'Azur	--	--					33	937	16	466			--	--												
FR		Rhône-Alpes	22*	315*					28	797	14	399			11	181												
* - only for department of Ain																												
Finland																												
FI		East Finland	32.96						--																			
FI		South Finland	26.67						32.77																			
FI		West Finland	27.28						34.99																			
FI		North Finland	31.42						--																			
FI		Åland.	27.83						--																			
Estonia																												
EE		Harju	29	451	37	572			34	894					35	531			32	487	22	339						
EE		Hiiu	101	1546	44	668			33	870					25	390			34	521	30	458						
EE		Ida-Viru	27	410	35	542			29	758					34	529			26	399	17	261						
EE		Jõgeva	30	459	36	556			31	802					25	382			33	502	25	385						
EE		Järva	29	452	36	548			35	905					25	389			33	499	23	349						
EE		Lääne	29	441	39	598			37	960					29	447			35	534	25	383						
EE		Lääne-Viru	29	449	35	544			32	829					32	485			31	471	27	422						
EE		Põlva	28	434	33	506			34	882					36	548			27	418	19	297						
EE		Pärnu	32	492	34	518			32	842					26	403			33	499	23	355						
EE		Rapla	25	385	36	547			33	854					26	401			30	454	18	273						

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EE		Saare	26	405	35	540			35	901							31	476			29	446	31	483			
EE		Tartu	27	412	34	520			31	807							33	503			29	447	20	306			
EE		Valga	30	465	37	560			41	1057							34	525			29	452	19	296			
EE		Viljandi	30	460	36	546			36	935							30	453			30	461	24	366			
EE		Võru	32	484	35	535			35	910							37	570			28	425	20	312			
Denmark																											
DK		Hovedstaden	21.1	324					22.6	629																	
DK		Sjælland	18.9	290					21.4	595																	
DK		Syddanmark	21.3	327					23.6	657																	
DK		Midtjylland	21.8	335					24.0	667																	
DK		Nordjylland	23.4	359					24.4	679																	
Czech Republik																											
CZ	CZ01	Prague	21.8	279					23.1	578					19.6	276											
CZ	CZ02	Central Bohemia	22.0	281					23.2	581					19.5	275											
CZ	CZ03	South-west	22.5	288					23.2	581					19.0	268											
CZ	CZ04	North-west	22.1	283					23.0	576					19.4	273											
CZ	CZ05	North-east	22.6	289					23.5	588					19.9	280											
CZ	CZ06	South-east	22.7	290					23.0	576					19.7	278											
CZ	CZ07	Central Moravia	21.9	280					23.1	578					19.4	273											
CZ	CZ08	Moravia-Silesia	22.6	289					23.5	588					19.7	275											
Zypern																											
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Bulgaria																											
BG		North-West	34.61						17.51						25.27												
BG		North-Central	33.62						19.22						25.06												
BG		North-East	32.75						17.48						24.55												
BG		South-East	33.88						18.24						24.26												
BG		South-West	35.34						17.96						25.08												
BG		South-Central	35.30						17.95						24.81												
Belgium - Flemish Government																											
BE		Antwerp	14,4					20,8	19,7					7,0													
BE		Brabant	15,6					21,4	20,3					7,3													
BE		West-Flanders	15,6					19,9	18,9					7,3													
BE		East-Flanders	15,7					23,9	22,6					7,2													
BE		Limburg	14,7					21,0	20,0					7,2													
BE		Region Flanders	15,3					20,9	19,9					7,2													
Belgium - Wallon Region																											
BE		Brabant Wallon	15,7					23,1	21,6					10,5													
BE		Hainaut	15,6					26,6	25,0					10,0													
BE		Liege	14,1					24,6	23,1					9,6													
BE		Luxembourg	14,0					23,5	22,0					8,8													
BE		Namur	14,8					25,2	23,6					9,8													
BE		Wallon Region	14,6					25,0	23,4					9,6													