

The following table has been extracted from a previous leaked version of the FQD implementing measures from May 2014.

Annex I

Methodology for the calculation of the life cycle greenhouse gas intensity of fuels and energy by fuel suppliers

(3) Feedstock trade name

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Abu Dhabi	Al Bunduq	38.5	1.1	NA
Abu Dhabi	Mubarraz	38.1	0.9	NA
Abu Dhabi	Murban	40.5	0.8	8.25
Abu Dhabi	Zakum (Lower Zakum/Abu Dhabi Marine)	40.6	1	NA
Abu Dhabi	Umm Shaif (Abu Dhabi Marine)	37.4	1.5	NA
Abu Dhabi	Arzanah	44	0	NA
Abu Dhabi	Abu Al Bu Khoosh	31.6	2	NA
Abu Dhabi	Murban Bottoms	21.4	NA	NA
Abu Dhabi	Top Murban	21	NA	NA
Abu Dhabi	Upper Zakum	34.4	1.7	7.26
Algeria	Arzew	44.3	0.1	15.42
Algeria	Hassi Messaoud	42.8	0.2	12.78
Algeria	Zarzaitine	43	0.1	15.42
Algeria	Algerian	44	0.1	15.42
Algeria	Skikda	44.3	0.1	15.42

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Algeria	Saharan Blend	45.5	0.1	12.78
Algeria	Hassi Ramal	60	0.1	15.42
Algeria	Algerian Condensate	64.5	NA	15.42
Algeria	Algerian Mix	45.6	0.2	15.42
Algeria	Algerian Condensate (Arzew)	65.8	0	15.42
Algeria	Algerian Condensate (Bejaia)	65.0	0	15.42
Algeria	Top Algerian	24.6	NA	15.42
Angola	Cabinda	31.7	0.2	8.41
Angola	Takula	33.7	0.1	9.23
Angola	Soyo Blend	33.7	0.2	9.23
Angola	Mandji	29.5	1.3	9.23
Angola	Malongo (West)	26	NA	9.23
Angola	Cavala-1	42.3	NA	9.23
Angola	Sulele (South-1)	38.7	NA	9.23
Angola	Palanca	40	0.14	9.23
Angola	Malongo (North)	30	NA	9.23
Angola	Malongo (South)	25	NA	9.23
Angola	Nemba	38.5	0	8.55
Angola	Girassol	31.3	NA	8.74
Angola	Kuito	20	NA	9.23
Angola	Hungo	28.8	NA	7.56
Angola	Kissinje	30.5	0.37	9.23
Angola	Dalia	23.6	1.48	8.33

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Angola	Gimboa	23.7	0.65	8.14
Angola	Mondo	28.8	0.44	8.25
Angola	Plutonio	33.2	0.036	9.23
Angola	Saxi Batuque Blend	33.2	0.36	9.23
Angola	Xikomba	34.4	0.41	9.23
Argentina	Tierra del Fuego	42.4	NA	NA
Argentina	Santa Cruz	26.9	NA	NA
Argentina	Escalante	24	0.2	7.70
Argentina	Canadon Seco	27	0.2	7.68
Argentina	Hidra	51.7	0.05	NA
Argentina	Medanito	34.93	0.48	8.23
Armenia	Armenian Miscellaneous	NA	NA	NA
Australia	Jabiru	42.3	0.03	NA
Australia	Kooroopa (Jurassic)	42	NA	NA
Australia	Talgeberry (Jurassic)	43	NA	NA
Australia	Talgeberry (Up Cretaceous)	51	NA	NA
Australia	Woodside Condensate	51.8	NA	NA
Australia	Saladin-3 (Top Barrow)	49	NA	NA
Australia	Harriet	38	NA	NA
Australia	Skua-3 (Challis Field)	43	NA	NA
Australia	Barrow Island	36.8	0.1	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Australia	Northwest Shelf Condensate	53.1	0	NA
Australia	Jackson Blend	41.9	0	NA
Australia	Cooper Basin	45.2	0.02	NA
Australia	Griffin	55	0.03	NA
Australia	Buffalo Crude	53	NA	NA
Australia	Cossack	48.2	0.04	NA
Australia	Elang	56.2	NA	NA
Australia	Enfield	21.7	0.13	NA
Australia	Gippsland (Bass Strait)	45.4	0.1	NA
Azerbaijan	Azeri Light	34.8	0.15	5.37
Bahrain	Bahrain Miscellaneous	NA	NA	NA
Belarus	Belarus Miscellaneous	NA	NA	NA
Benin	Seme	22.6	0.5	NA
Benin	Benin Miscellaneous	NA	NA	NA
Belize	Belize Light Crude	40	NA	NA
Belize	Belize Miscellaneous	NA	NA	NA
Bolivia	Bolivian Condensate	58.8	0.1	NA
Brazil	Garoupa	30.5	0.1	6.57
Brazil	Sergipano	25.1	0.4	6.57
Brazil	Campos Basin	20	NA	6.57
Brazil	Urucu (Upper Amazon)	42	NA	6.57
Brazil	Marlim	20	NA	6.11

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Brazil	Brazil Polvo	19.6	1.14	6.57
Brazil	Roncador	28.3	0.58	5.76
Brazil	Roncador Heavy	18	NA	5.46
Brazil	Albacora East	19.8	0.52	6.57
Brunei	Seria Light	36.2	0.1	NA
Brunei	Champion	24.4	0.1	NA
Brunei	Champion Condensate	65	0.1	NA
Brunei	Brunei LS Blend	32	0.1	NA
Brunei	Brunei Condensate	65	NA	NA
Brunei	Champion Export	23.9	0.12	NA
Cameroon	Kole Marine Blend	34.9	0.3	23.29
Cameroon	Lokele	21.5	0.5	21.46
Cameroon	Moudi Light	40	NA	23.29
Cameroon	Moudi Heavy	21.3	NA	23.29
Cameroon	Ebome	32.1	0.35	23.29
Cameroon	Cameroon Miscellaneous	NA	NA	23.29
Canada	Peace River Light	41	NA	NA
Canada	Peace River Medium	33	NA	NA
Canada	Peace River Heavy	23	NA	19.47
Canada	Manyberries	36.5	NA	NA
Canada	Rainbow Light and Medium	40.7	NA	NA
Canada	Pembina	33	NA	NA
Canada	Bells Hill Lake	32	NA	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Canada	Fosterton Condensate	63	NA	NA
Canada	Rangeland Condensate	67.3	NA	NA
Canada	Redwater	35	NA	NA
Canada	Lloydminster	20.7	2.8	8.43
Canada	Wainwright- Kinsella	23.1	2.3	NA
Canada	Bow River Heavy	26.7	2.4	NA
Canada	Fosterton	21.4	3	NA
Canada	Smiley-Coleville	22.5	2.2	NA
Canada	Midale	29	2.4	NA
Canada	Milk River Pipeline	36	1.4	NA
Canada	Ipl-Mix Sweet	40	0.2	NA
Canada	Ipl-Mix Sour	38	0.5	NA
Canada	Ipl Condensate	55	0.3	NA
Canada	Aurora Light	39.5	0.4	NA
Canada	Aurora Condensate	65	0.3	NA
Canada	Reagan Field	35	0.2	NA
Canada	Synthetic Canada	30.3	1.7	NA
Canada	Cold Lake	13.2	4.1	17.48
Canada	Cold Lake Blend	26.9	3	NA
Canada	Canadian Federated	39.4	0.3	NA
Canada	Chauvin	22	2.7	NA
Canada	Gcos	23	NA	NA
Canada	Gulf Alberta L & M	35.1	1	NA
Canada	Light Sour Blend	35	1.2	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Canada	Lloyd Blend	22	2.8	NA
Canada	Peace River Condensate	54.9	NA	NA
Canada	Sarnium Condensate	57.7	NA	NA
Canada	Saskatchewan Light	32.9	NA	NA
Canada	Sweet Mixed Blend	38	0.5	NA
Canada	Syncrude	32	0.1	NA
Canada	Rangeland – South L & M	39.5	0.5	NA
Canada	Northblend Nevis	34	NA	NA
Canada	Canadian Common Condensate	55	NA	NA
Canada	Canadian Common	39	0.3	NA
Canada	Waterton Condensate	65.1	NA	NA
Canada	Panuke Condensate	56	NA	NA
Canada	Federated Light and Medium	39.7	2	NA
Canada	Wabasca	23	NA	14.31
Canada	Hibernia	37.3	0.37	NA
Canada	BC Light	40	NA	NA
Canada	Boundary	39	NA	NA
Canada	Albian Heavy	21	NA	NA
Canada	Koch Alberta	34	NA	8.01
Canada	Terra Nova	32.3	NA	NA
Canada	Echo Blend	20.6	3.15	NA
Canada	Western Canadian Blend	19.8	3	NA
Canada	Western Canadian Select	20.5	3.33	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Canada	White Rose	31.0	0.31	NA
Canada	Access	22	NA	NA
Canada	Premium Albian Synthetic Heavy	20.9	NA	NA
Canada	Albian Residuum Blend (ARB)	20.03	2.62	NA
Canada	Christina Lake	20.5	3	NA
Canada	CNRL	34	NA	NA
Canada	Husky Synthetic Blend	31.91	0.11	NA
Canada	Premium Albian Synthetic (PAS)	35.5	0.04	NA
Canada	Seal Heavy(SH)	19.89	4.54	NA
Canada	Suncor Synthetic A (OSA)	33.61	0.178	NA
Canada	Suncor Synthetic H (OSH)	19.53	3.079	NA
Canada	Peace Sour	33	NA	NA
Canada	Western Canadian Resid	20.7	NA	NA
Canada	Christina Dilbit Blend	21.0	NA	NA
Canada	Christina Lake Dilbit	38.08	3.80	NA
Chile	Chile Miscellaneous	NA	NA	NA
Chad	Doba Blend (Early Production)	24.8	0.14	NA
Chad	Doba Blend (Later Production)	20.8	0.17	NA
China	Taching (Daqing)	33	0.1	NA
China	Shengli	24.2	1	NA
China	Beibu	NA	NA	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
China	Chengbei	17	NA	NA
China	Lufeng	34.4	NA	NA
China	Xijiang	28	NA	NA
China	Wei Zhou	39.9	NA	NA
China	Liu Hua	21	NA	NA
China	Boz Hong	17	0.282	NA
China	Peng Lai	21.8	0.29	NA
China	Xi Xiang	32.18	0.09	NA
Colombia	Onto	35.3	0.5	NA
Colombia	Putamayo	35	0.5	NA
Colombia	Rio Zulia	40.4	0.3	NA
Colombia	Orito	34.9	0.5	NA
Colombia	Cano-Limon	30.8	0.5	NA
Colombia	Lasmo	30	NA	NA
Colombia	Cano Duya-1	28	NA	NA
Colombia	Corocora-1	31.6	NA	NA
Colombia	Suria Sur-1	32	NA	NA
Colombia	Tunane-1	29	NA	NA
Colombia	Casanare	23	NA	NA
Colombia	Cusiana	44.4	0.2	NA
Colombia	Vasconia	27.3	0.6	7.76
Colombia	Castilla Blend	20.8	1.72	NA
Colombia	Cupiaga	43.11	0.082	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Colombia	South Blend	28.6	0.72	NA
Congo (Brazzaville)	Emeraude	23.6	0.5	NA
Congo (Brazzaville)	Djeno Blend	26.9	0.3	NA
Congo (Brazzaville)	Viodo Marina-1	26.5	NA	NA
Congo (Brazzaville)	Nkossa	47	0.03	NA
Congo (Kinshasa)	Muanda	34	0.1	NA
Congo (Kinshasa)	Congo/Zaire	31.7	0.1	NA
Congo (Kinshasa)	Coco	30.4	0.15	NA
Cote d'Ivoire	Espoir	31.4	0.3	NA
Cote d'Ivoire	Lion Cote	41.1	0.101	NA
Denmark	Dan	30.4	0.3	3.20
Denmark	Gorm	33.9	0.2	3.20
Denmark	Danish North Sea	34.5	0.26	3.20
Dubai	Dubai (Fateh)	31.1	2	NA
Dubai	Margham Light	50.3	0	NA
Ecuador	Oriente	29.2	1	9.58
Ecuador	Quito	29.5	0.7	NA
Ecuador	Santa Elena	35	0.1	NA
Ecuador	Limoncoha-1	28	NA	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Ecuador	Frontera-1	30.7	NA	NA
Ecuador	Bogi-1	21.2	NA	NA
Ecuador	Napo	19	2	8.18
Ecuador	Napo Light	19.3	NA	NA
Egypt	Belayim	27.5	2.2	NA
Egypt	El Morgan	29.4	1.7	NA
Egypt	Rhas Gharib	24.3	3.3	NA
Egypt	Gulf of Suez Mix	31.9	1.5	8.91
Egypt	Geysum	19.5	NA	NA
Egypt	East Gharib (J-1)	37.9	NA	8.91
Egypt	Mango-1	35.1	NA	8.91
Egypt	Rhas Budran	25	NA	NA
Egypt	Zeit Bay	34.1	0.1	8.91
Egypt	East Zeit Mix	39	0.87	8.91
Equatorial Guinea	Zafiro	30.3	NA	NA
Equatorial Guinea	Alba Condensate	55	NA	NA
Equatorial Guinea	Ceiba	30.1	0.42	NA
Gabon	Gamba	31.8	0.1	NA
Gabon	Mandji	30.5	1.1	NA
Gabon	Lucina Marine	39.5	0.1	NA
Gabon	Oguendjo	35	NA	NA
Gabon	Rabi-Kouanga	34	0.6	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Gabon	T'Catamba	44.3	0.21	NA
Gabon	Rabi	33.4	0.06	NA
Gabon	Rabi Blend	34	NA	NA
Gabon	Rabi Light	37.7	0.15	NA
Gabon	Etame Marin	36	NA	NA
Gabon	Olende	17.6	1.54	NA
Gabon	Gabonian Miscellaneous	NA	NA	NA
Georgia	Georgian Miscellaneous	NA	NA	NA
Ghana	Bonsu	32	0.1	NA
Ghana	Salt Pond	37.4	0.1	NA
Guatemala	Coban	27.7	NA	NA
Guatemala	Rubelsanto	27	NA	NA
India	Bombay High	39.4	0.2	NA
Indonesia	Minas (Sumatron Light)	34.5	0.1	NA
Indonesia	Ardjuna	35.2	0.1	NA
Indonesia	Attaka	42.3	0.1	NA
Indonesia	Suri	18.4	0.2	NA
Indonesia	Sanga Sanga	25.7	0.2	NA
Indonesia	Sepinggan	37.9	0.9	NA
Indonesia	Walio	34.1	0.7	NA
Indonesia	Arimbi	31.8	0.2	NA
Indonesia	Poleng	43.2	0.2	NA
Indonesia	Handil	32.8	0.1	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Indonesia	Jatibarang	29	0.1	NA
Indonesia	Cinta	33.4	0.1	NA
Indonesia	Bekapai	40	0.1	NA
Indonesia	Katapa	52	0.1	NA
Indonesia	Salawati	38	0.5	NA
Indonesia	Duri (Sumatran Heavy)	21.1	0.2	NA
Indonesia	Sembakung	37.5	0.1	NA
Indonesia	Badak	41.3	0.1	NA
Indonesia	Arun Condensate	54.5	NA	NA
Indonesia	Udang	38	0.1	NA
Indonesia	Klamono	18.7	1	NA
Indonesia	Bunya	31.7	0.1	NA
Indonesia	Pamusian	18.1	0.2	NA
Indonesia	Kerindigan	21.6	0.3	NA
Indonesia	Melahin	24.7	0.3	NA
Indonesia	Bunyu	31.7	0.1	NA
Indonesia	Camar	36.3	NA	NA
Indonesia	Cinta Heavy	27	NA	NA
Indonesia	Lalang	40.4	NA	NA
Indonesia	Kakap	46.6	NA	NA
Indonesia	Sisi-1	40	NA	NA
Indonesia	Giti-1	33.6	NA	NA
Indonesia	Ayu-1	34.3	NA	NA
Indonesia	Bima	22.5	NA	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Indonesia	Padang Isle	34.7	NA	NA
Indonesia	Intan	32.8	NA	NA
Indonesia	Sepinggan - Yakin Mixed	31.7	0.1	NA
Indonesia	Widuri	32	0.1	NA
Indonesia	Belida	45.9	0	NA
Indonesia	Senipah	51.9	0.03	NA
Iran	Iranian Light	33.8	1.4	16.23
Iran	Iranian Heavy	31	1.7	11.54
Iran	Soroosh (Cyrus)	18.1	3.3	11.65
Iran	Dorrood (Darius)	33.6	2.4	11.65
Iran	Rostam	35.9	1.55	11.65
Iran	Salmon (Sassan)	33.9	1.9	11.65
Iran	Foroozan (Fereidoon)	31.3	2.5	11.65
Iran	Aboozar (Ardeshir)	26.9	2.5	11.65
Iran	Sirri	30.9	2.3	11.65
Iran	Bahrgansar/Nowruz (SIRIP Blend)	27.1	2.5	11.65
Iran	Bahr/Nowruz	25.0	2.5	11.65
Iran	Iranian Miscellaneous	NA	NA	11.65
Iraq	Basrah Light (Pers. Gulf)	33.7	2	10.45
Iraq	Kirkuk (Pers. Gulf)	35.1	1.9	8.98
Iraq	Mishrif (Pers. Gulf)	28	NA	11.46
Iraq	Bai Hasson (Pers. Gulf)	34.1	2.4	11.46
Iraq	Basrah Medium (Pers. Gulf)	31.1	2.6	11.46

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Iraq	Basrah Heavy (Pers. Gulf)	24.7	3.5	11.46
Iraq	Kirkuk Blend (Pers. Gulf)	35.1	2	11.46
Iraq	N. Rumalia (Pers. Gulf)	34.3	2	11.46
Iraq	Ras el Behar	33	NA	11.46
Iraq	Basrah Light (Red Sea)	33.7	2	11.46
Iraq	Kirkuk (Red Sea)	36.1	1.9	11.46
Iraq	Mishrif (Red Sea)	28	NA	11.46
Iraq	Bai Hasson (Red Sea)	34.1	2.4	11.46
Iraq	Basrah Medium (Red Sea)	31.1	2.6	11.46
Iraq	Basrah Heavy (Red Sea)	24.7	3.5	11.46
Iraq	Kirkuk Blend (Red Sea)	34	1.9	11.46
Iraq	N. Rumalia (Red Sea)	34.3	2	11.46
Iraq	Ratawi	23.5	4.1	7.74
Iraq	Basrah Light (Turkey)	33.7	2	11.46
Iraq	Kirkuk (Turkey)	36.1	1.9	11.46
Iraq	Mishrif (Turkey)	28	NA	11.46
Iraq	Bai Hasson (Turkey)	34.1	2.4	11.46
Iraq	Basrah Medium (Turkey)	31.1	2.6	11.46
Iraq	Basrah Heavy (Turkey)	24.7	3.5	11.46
Iraq	Kirkuk Blend (Turkey)	34	1.9	11.46
Iraq	N. Rumalia (Turkey)	34.3	2	11.46
Iraq	FAO Blend	27.7	3.6	11.46
Kazakhstan	Kumkol	42.5	0.07	17.75

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Kazakhstan	CPC Blend	44.2 NA	0.54	17.75
Kuwait	Mina al Ahmadi (Kuwait Export)	31.4	2.5	5.98
Kuwait	Magwa (Lower Jurassic)	38	NA	5.98
Kuwait	Burgan (Wafra)	23.3	3.4	5.98
Libya	Bu Attifel	43.6	0	8.35
Libya	Amna (high pour)	36.1	0.2	13.58
Libya	Brega	40.4	0.2	8.35
Libya	Sirtica	43.3	0.43	8.35
Libya	Zueitina	41.3	0.3	8.35
Libya	Bunker Hunt	37.6	0.2	13.58
Libya	El Hofra	42.3	0.3	8.35
Libya	Dahra	41	0.4	8.35
Libya	Sarir	38.3	0.2	13.58
Libya	Zueitina Condensate	65	0.1	8.35
Libya	El Sharara	42.1	0.07	8.35
Malaysia	Miri Light	36.3	0.1	NA
Malaysia	Tembungo	37.5	NA	NA
Malaysia	Labuan Blend	33.2	0.1	NA
Malaysia	Tapis	44.3	0.1	9.48
Malaysia	Tembungo	37.4	0	NA
Malaysia	Bintulu	26.5	0.1	NA
Malaysia	Bekok	49	NA	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Malaysia	Pulai	42.6	NA	NA
Malaysia	Dulang	39	0.037	NA
Mauritania	Chinguetti	28.2	0.51	NA
Mexico	Isthmus	32.8	1.5	8.61
Mexico	Maya	22	3.3	8.19
Mexico	Olmecca	39	NA	8.19
Mexico	Altamira	16	NA	8.19
Mexico	Topped Isthmus	26.1	1.72	8.19
Netherlands	Alba	19.59	NA	NA
Neutral Zone	Eocene (Wafra)	18.6	4.6	NA
Neutral Zone	Hout	32.8	1.9	NA
Neutral Zone	Khafji	28.5	2.9	7.26
Neutral Zone	Burgan (Wafra)	23.3	3.4	NA
Neutral Zone	Ratawi	23.5	4.1	7.74
Neutral Zone	Neutral Zone Mix	23.1	NA	NA
Neutral Zone	Khafji Blend	23.4	3.8	NA
Nigeria	Forcados Blend	29.7	0.3	18.26
Nigeria	Escravos	36.2	0.1	21.57
Nigeria	Brass River	40.9	0.1	18.54
Nigeria	Qua Iboe	35.8	0.1	15.28
Nigeria	Bonny Medium	25.2	0.2	18.26
Nigeria	Pennington	36.6	0.1	23.13
Nigeria	Bomu	33	0.2	18.26

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Nigeria	Bonny Light	36.7	0.1	18.54
Nigeria	Brass Blend	40.9	0.1	18.54
Nigeria	Gilli Gilli	47.3	NA	18.54
Nigeria	Adanga	35.1	NA	18.54
Nigeria	Iyak-3	36	NA	18.54
Nigeria	Antan	35.2	NA	37.35
Nigeria	OSO	47	0.06	18.54
Nigeria	Ukpokiti	42.3	0.01	18.54
Nigeria	Yoho	39.6	NA	15.28
Nigeria	Okwori	36.9	NA	18.54
Nigeria	Bonga	28.1	NA	5.23
Nigeria	ERHA	31.7	0.21	8.27
Nigeria	Amenam Blend	39	0.09	18.54
Nigeria	Akpo	45.17	0.06	18.54
Nigeria	EA	38	NA	3.65
Nigeria	Agbami	47.2	0.044	18.54
Norway	Ekofisk	43.4	0.2	2.77
Norway	Tor	42	0.1	6.29
Norway	Statfjord	38.4	0.3	6.41
Norway	Heidrun	29	NA	6.29
Norway	Norwegian Forties	37.1	NA	6.29
Norway	Gullfaks	28.6	0.4	8.77
Norway	Oseberg	32.5	0.2	6.45

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Norway	Norne	33.1	0.19	6.29
Norway	Troll	28.3	0.31	6.29
Norway	Draugen	39.6	NA	6.29
Norway	Sleipner Condensate	62	0.02	6.29
Oman	Oman Export	36.3	0.8	NA
Papua New Guinea	Kutubu	44	0.04	NA
Peru	Loreto	34	0.3	6.75
Peru	Talara	32.7	0.1	NA
Peru	High Cold Test	37.5	NA	NA
Peru	Bayovar	22.6	NA	NA
Peru	Low Cold Test	34.3	NA	NA
Peru	Carmen Central-5	20.7	NA	NA
Peru	Shiviyacu-23	20.8	NA	NA
Peru	Mayna	25.7	NA	8.38
Philippines	Nido	26.5	NA	NA
Philippines	Philippines Miscellaneous	NA	NA	NA
Qatar	Dukhan	41.7	1.3	NA
Qatar	Qatar Marine	35.3	1.6	NA
Qatar	Qatar Land	41.4	NA	NA
Ras Al Khaimah	Rak Condensate	54.1	NA	NA
Ras Al Khaimah	Ras Al Khaimah Miscellaneous	NA	NA	NA
Russia	Urals	31	2	12.47

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Russia	Russian Export Blend	32.5	1.4	9.84
Russia	M100	17.6	2.02	14.61
Russia	M100 Heavy	16.67	2.09	9.84
Russia	Siberian Light	37.8	0.4	9.84
Russia	E4 (Gravenshon)	19.84	1.95	9.84
Russia	E4 Heavy	18	2.35	9.84
Russia	Purovsky Condensate	64.1	0.01	9.84
Russia	Sokol	39.7	0.18	9.13
Saudi Arabia	Light (Pers. Gulf)	33.4	1.8	5.49
Saudi Arabia	Heavy (Pers. Gulf) (Safaniya)	27.9	2.8	NA
Saudi Arabia	Medium (Pers. Gulf) (Khursaniyah)	30.8	2.4	5.49
Saudi Arabia	Extra Light (Pers. Gulf) (Berri)	37.8	1.1	5.49
Saudi Arabia	Light (Yanbu)	33.4	1.2	5.49
Saudi Arabia	Heavy (Yanbu)	27.9	2.8	NA
Saudi Arabia	Medium (Yanbu)	30.8	2.4	5.49
Saudi Arabia	Berri (Yanbu)	37.8	1.1	5.49
Saudi Arabia	Medium (Zuluf/Marjan)	31.1	2.5	5.49
Sharjah	Mubarek. Sharjah	37	0.6	NA
Sharjah	Sharjah Condensate	49.7	0.1	NA
Singapore	Rantau	50.5	0.1	NA
Spain	Amposta Marina North	37	NA	NA
Spain	Casablanca	34	NA	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Spain	El Dorado	26.6	NA	NA
Syria	Syrian Straight	15	NA	10.06
Syria	Thayyem	35	NA	10.06
Syria	Omar Blend	38	NA	10.06
Syria	Omar	36.5	0.1	10.06
Syria	Syrian Light	36	0.6	10.06
Syria	Souedie	24.9	3.8	7.79
Thailand	Erawan Condensate	54.1	NA	NA
Thailand	Sirikit	41	NA	NA
Thailand	Nang Nuan	30	NA	NA
Thailand	Bualuang	27	NA	3.50
Thailand	Benchamas	42.4	0.12	NA
Trinidad and Tobago	Galeota Mix	32.8	0.3	NA
Trinidad and Tobago	Trintopec	24.8	NA	NA
Trinidad and Tobago	Land/Trinmar	23.4	1.2	NA
Trinidad and Tobago	Calypso Miscellaneous	30.84	0.59	NA
Tunisia	Zarzaitine	41.9	0.1	NA
Tunisia	Ashtart	29	1	NA
Tunisia	El Borma	43.3	0.1	NA
Tunisia	Ezzaouia-2	41.5	NA	NA
Turkey	Turkish Miscellaneous	NA	NA	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Ukraine	Ukraine Miscellaneous	NA	NA	NA
United Kingdom	Auk	37.2	0.5	NA
United Kingdom	Beatrice	38.7	0.05	NA
United Kingdom	Brae	33.6	0.7	NA
United Kingdom	Buchan	33.7	0.8	NA
United Kingdom	Claymore	30.5	1.6	NA
United Kingdom	S.V. (Brent)	36.7	0.3	NA
United Kingdom	Tartan	41.7	0.6	NA
United Kingdom	Tern	35	0.7	NA
United Kingdom	Magnus	39.3	0.3	NA
United Kingdom	Dunlin	34.9	0.4	NA
United Kingdom	Fulmar	40	0.3	NA
United Kingdom	Hutton	30.5	0.7	NA
United Kingdom	N.W. Hutton	36.2	0.3	NA
United Kingdom	Maureen	35.5	0.6	NA
United Kingdom	Murchison	38.8	0.3	NA
United Kingdom	Ninian Blend	35.6	0.4	NA
United Kingdom	Montrose	40.1	0.2	NA
United Kingdom	Beryl	36.5	0.4	NA
United Kingdom	Piper	35.6	0.9	NA
United Kingdom	Forties	36.6	0.3	3.40
United Kingdom	Brent Blend	38	0.4	12.59
United Kingdom	Flotta	35.7	1.1	10.39
United Kingdom	Thistle	37	0.3	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
United Kingdom	S.V. (Ninian)	38	0.3	NA
United Kingdom	Argyle	38.6	0.2	NA
United Kingdom	Heather	33.8	0.7	NA
United Kingdom	South Birch	38.6	NA	NA
United Kingdom	Wytych Farm	41.5	NA	NA
United Kingdom	Cormorant. North	34.9	0.7	NA
United Kingdom	Cormorant. South (Cormorant "A")	35.7	0.6	NA
United Kingdom	Alba	19.2	NA	NA
United Kingdom	Foinhaven	26.3	0.38	NA
United Kingdom	Schiehallion	25.8	NA	NA
United Kingdom	Captain	19.1	0.7	NA
United Kingdom	Harding	20.7	0.59	NA
US Alaska	ANS	NA	NA	NA
US Colorado	Niobrara	NA	NA	NA
US New Mexico	Four Corners	NA	NA	NA
US North Dakota	Bakken	NA	NA	NA
US North Dakota	North Dakota Sweet	NA	NA	NA
US Texas	WTI	NA	NA	NA
US Texas	Eagle Ford	NA	NA	NA
US Utah	Covenant	NA	NA	NA
US Federal OCS	Beta	NA	NA	NA
US Federal OCS	Carpinteria	NA	NA	NA
US Federal OCS	Dos Cuadras	NA	NA	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
US Federal OCS	Hondo	NA	NA	NA
US Federal OCS	Hueneme	NA	NA	NA
US Federal OCS	Pescado	NA	NA	NA
US Federal OCS	Point Arguello	NA	NA	NA
US Federal OCS	Point Pedernales	NA	NA	NA
US Federal OCS	Sacate	NA	NA	NA
US Federal OCS	Santa Clara	NA	NA	NA
US Federal OCS	Sockeye	NA	NA	NA
Uzbekistan	Uzbekistan Miscellaneous	NA	NA	NA
Venezuela	Jobo (Monagas)	12.6	2	20.51
Venezuela	Lama Lamar	36.7	1	NA
Venezuela	Mariago	27	1.5	NA
Venezuela	Ruiz	32.4	1.3	NA
Venezuela	Tucipido	36	0.3	NA
Venezuela	Venez Lot 17	36.3	0.9	NA
Venezuela	Mara 16/18	16.5	3.5	20.51
Venezuela	Tia Juana Light	32.1	1.1	NA
Venezuela	Tia Juana Med 26	24.8	1.6	NA
Venezuela	Officina	35.1	0.7	NA
Venezuela	Bachaquero	16.8	2.4	20.51
Venezuela	Cento Lago	36.9	1.1	NA
Venezuela	Lagunillas	17.8	2.2	20.51
Venezuela	La Rosa Medium	25.3	1.7	NA
Venezuela	San Joaquin	42	0.2	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Venezuela	Lagotreco	29.5	1.3	NA
Venezuela	Lagocinco	36	1.1	NA
Venezuela	Boscan	10.1	5.5	9.03
Venezuela	Leona	24.1	1.5	NA
Venezuela	Barinas	26.2	1.8	NA
Venezuela	Sylvestre	28.4	1	NA
Venezuela	Mesa	29.2	1.2	NA
Venezuela	Ceuta	31.8	1.2	NA
Venezuela	Lago Medio	31.5	1.2	NA
Venezuela	Tigre	24.5	NA	NA
Venezuela	Anaco Wax	41.5	0.2	NA
Venezuela	Santa Rosa	49	0.1	NA
Venezuela	Bombai	19.6	1.6	20.51
Venezuela	Aguasay	41.1	0.3	NA
Venezuela	Anaco	43.4	0.1	NA
Venezuela	BCF-Bach/Lag17	16.8	2.4	20.51
Venezuela	BCF-Bach/Lag21	20.4	2.1	NA
Venezuela	BCF-21.9	21.9	NA	NA
Venezuela	BCF-24	23.5	1.9	NA
Venezuela	BCF-31	31	1.2	NA
Venezuela	BCF Blend	34	1	NA
Venezuela	Bolival Coast	23.5	1.8	NA
Venezuela	Ceuta/Bach 18	18.5	2.3	20.51
Venezuela	Corridor Block	26.9	1.6	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Venezuela	Cretaceous	42	0.4	NA
Venezuela	Guanipa	30	0.7	NA
Venezuela	Lago Mix Med.	23.4	1.9	NA
Venezuela	Larosa/Lagun	23.8	1.8	NA
Venezuela	Menemoto	19.3	2.2	20.51
Venezuela	Cabimas	20.8	1.8	NA
Venezuela	BCF-23	23	1.9	NA
Venezuela	Oficina/Mesa	32.2	0.9	NA
Venezuela	Pilon	13.8	2	20.51
Venezuela	Recon (Venez)	34	NA	NA
Venezuela	102 Tj (25)	25	1.6	NA
Venezuela	Tjl Cretaceous	39	0.6	NA
Venezuela	Tia Juana Pesado (Heavy)	12.1	2.7	20.51
Venezuela	Mesa-Recon	28.4	1.3	NA
Venezuela	Oritupano	19	2	20.51
Venezuela	Hombre Pintado	29.7	0.3	NA
Venezuela	Merey	17.4	2.2	20.51
Venezuela	Lago Light	41.2	0.4	NA
Venezuela	Laguna	11.2	0.3	20.51
Venezuela	Bach/Cueta Mix	24	1.2	NA
Venezuela	Bachaquero 13	13	2.7	20.51
Venezuela	Ceuta – 28	28	1.6	NA
Venezuela	Temblador	23.1	0.8	NA
Venezuela	Lagomar	32	1.2	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Venezuela	Taparito	17	NA	20.51
Venezuela	BCF-Heavy	16.7	NA	20.51
Venezuela	BCF-Medium	22	NA	NA
Venezuela	Caripito Blend	17.8	NA	20.51
Venezuela	Laguna/Ceuta Mix	18.1	NA	20.51
Venezuela	Morichal	10.6	NA	20.51
Venezuela	Pedemales	20.1	NA	NA
Venezuela	Quiriquire	16.3	NA	20.51
Venezuela	Tucupita	17	NA	20.51
Venezuela	Furrial-2 (E. Venezuela)	27	NA	NA
Venezuela	Curazao Blend	18	NA	20.51
Venezuela	Santa Barbara	36.5	NA	
Venezuela	Cerro Negro	15	NA	20.51
Venezuela	BCF22	21.1	2.11	NA
Venezuela	Hamaca	26	1.55	22.27
Venezuela	Zuata 10	15	NA	20.51
Venezuela	Zuata 20	25	NA	NA
Venezuela	Zuata 30	35	NA	NA
Venezuela	Monogas	15.9	3.3	20.51
Venezuela	Corocoro	24	NA	NA
Venezuela	Petrozuata	19.5	2.69	20.51
Venezuela	Morichal 16	16	NA	20.51
Venezuela	Guafita	28.6	0.73	NA

Country	Feedstock trade name	API	Sulphur (wt %)	Upstream unit GHG intensity (gCO ₂ eq/MJ)
Vietnam	Bach Ho (White Tiger)	38.6	0	NA
Vietnam	Dai Hung (Big Bear)	36.9	0.1	NA
Vietnam	Rang Dong	37.7	0.5	NA
Vietnam	Ruby	35.6	0.08	NA
Vietnam	Su Tu Den (Black Lion)	36.8	0.05	NA
Yemen	North Yemeni Blend	40.5	NA	NA
Yemen	Alif	40.4	0.1	NA
Yemen	Maarib Lt.	49	0.2	NA
Yemen	Masila Blend	30-31	0.6	NA
Yemen	Shabwa Blend	34.6	0.6	NA
Any	Oil shale	NA	NA	NA
Any	Shale oil	NA	NA	NA
Any	Natural Gas: piped from source	NA	NA	4.0
Any	Natural Gas: from LNG	NA	NA	5.7
Any	Shale gas: piped from source	NA	NA	3.9
Any	Coal	NA	NA	41.2