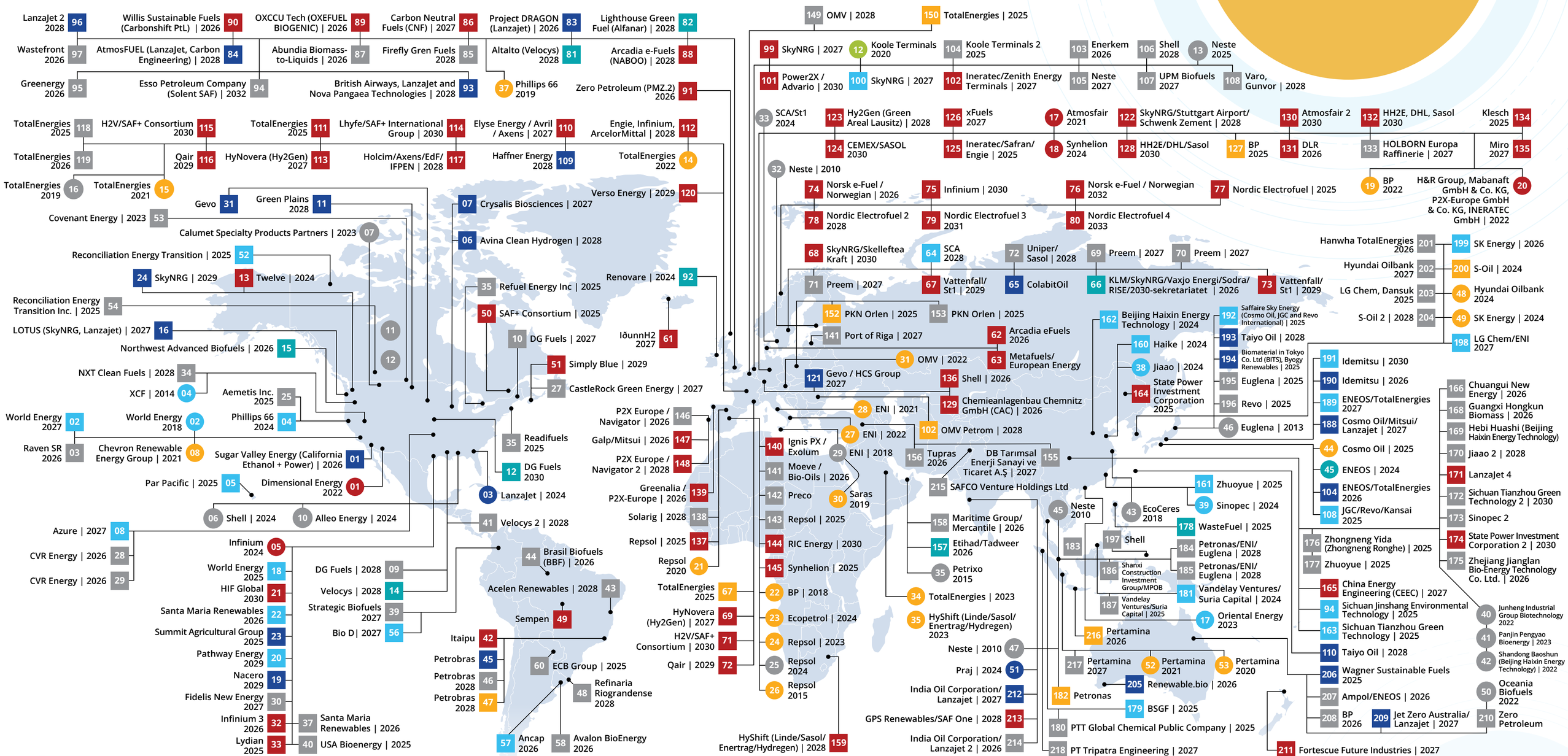
SAF Capacity Map

With mounting pressure from government mandates and directives from the global aviation industry, global airlines are being pushed to use more renewable fuels. As demand intensifies, understanding the market and where the global capacity lies is important.

Argus is leading the global SAF market with prices that reflect the way the market actually trades. Argus has developed SAF fob ARA, SAF fob Singapore, SAF del USWC, and SAF 100 price assessments.

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KEY

Operational | Operational Year (shape)

- Operational
- Planned

Operational | Operational Year (colour)

- **AtJ** Alcohol-to-Jet Synthetic Paraffinic Kerosene
- **HEFA** Hydroprocessed Esters and Fatty Acids
- **Co-processing**
- **Distillation**
- **FT-SPK** Fischer-Tropsch Synthetic Paraffinic Kerosene
- **PtL** Power-to-Liquid
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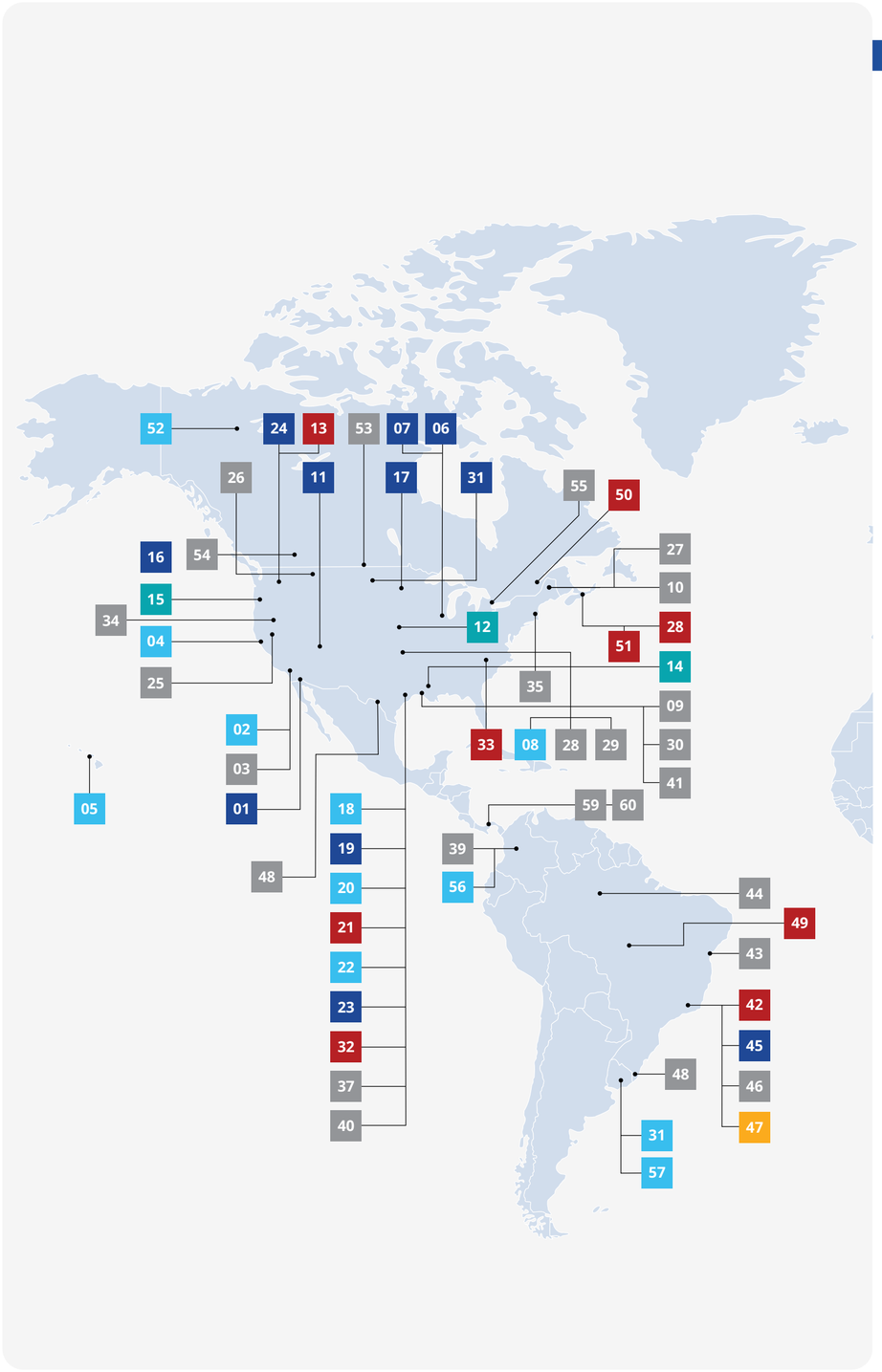
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Planned facilities | North America & South America



Operational | Operational Year

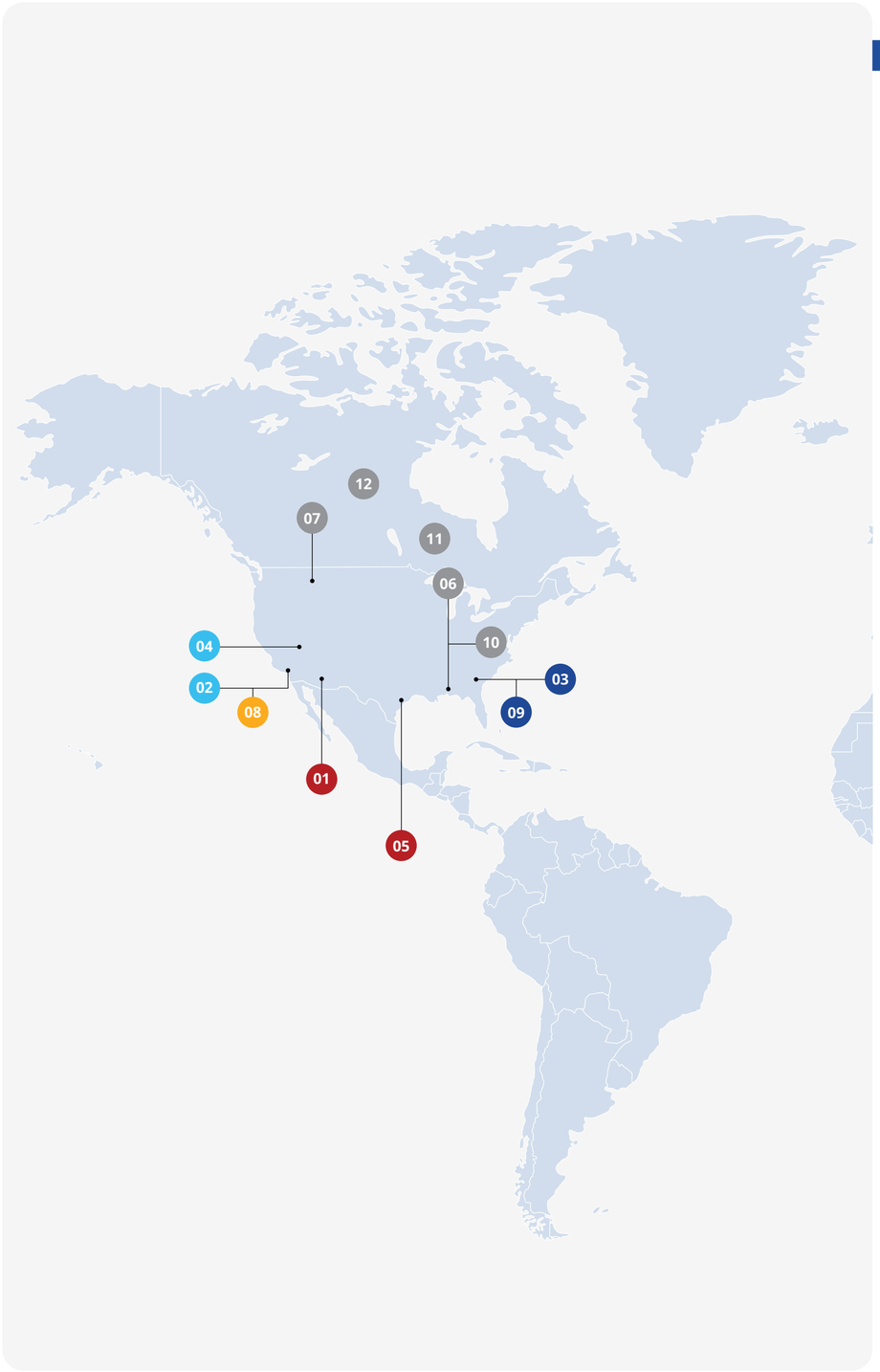
Type of facility

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Country	Location		Company	Type of Facility	Total plant capacity [mn USG/yr]	Total SAF capacity [MT/yr]	Operational Year
US	Imperial Valley, California	01	Sugar Valley Energy (California Ethanol + Power)	AtJ-SPK	61	175,000	2026
US	Paramount, California	02	World Energy	HEFA-SPK	200	576,000	2027
US	Richmond, CA	03	Raven SR	GtL	17	51,784	2026
US	Rodeo, California	04	Phillips 66	HEFA-SPK	320	905,272	2024
US	Kapolei	05	Par Pacific	Co-processing	61	176,412	2025
US	Illinois	06	Avina Clean Hydrogen	AtJ	120	343,867	2028
US	Sauget, IL	07	Crysalis Biosciences	AtJ	29	86,307	2027
US	Cherryvale, Kansas	08	Azure	HEFA-SPK	135	389,000	2027
US	Louisiana	09	DG Fuels	GtL	208	600,000	2028
US	Maine	10	DG Fuels	GtL	175	516,708	2027
US	Mid-continent	11	Green Plains	AtJ-SPK	134	387,000	2028
US	Minnesota	12	DG Fuels	FT-SPK	192	555,000	2030
US	Moses Lake, Washington	13	Twelve	PtL	0.04	14	2024
US	Natchez, Mississippi	14	Velocys	FT-SPK + GtL	34	100,692	2028
US	Oregon	15	Northwest Advanced Biofuels	FT-SPK + GtL	59	172,615	2026
US	Pacific Northwest	16	LOTUS (SkyNRG, Lanzajet)	AtJ-SPK	10	30,000	2027
US	Lake Preston, South Dakota	17	Gevo/Net-Zero 1	AtJ-SPK	65	187,245	2026
US	Houston, Texas	18	World Energy	HEFA-SPK	250	719,228	2025
US	Penwell, TX	19	Nacero	MtJ	148	428,130	2029
US	Port Arthur, Texas	20	Pathway Energy	FT-SPK + GtL	30	86,307	2029
US	Texas	21	HIF Global	PtL	168	485,000	2030
US	Texas	22	Santa Maria Renewables	HEFA-SPK	25	71,000	2026
US	Texas	23	Summit Agricultural Group	AtJ-SPK	250	716,389	2025
US	Washington	24	SkyNRG	AtJ	49	143,278	2029
US	Riverbank	25	Aemetis Inc.	Hydrotreatment	23	66,434	2025
US	Great Falls	26	Calumet Specialty Products Partners	Hydrotreatment	15	44,289	2028
US	Millinocket	27	CastleRock Green Energy	Pyrolysis	7	20,650	2027
US	Coffeyville	28	CVR Energy	Hydrotreatment	92	265,458	2026
US	Coffeyville	29	CVR Energy	Hydrotreatment	253	728,691	2026
US	Baton Rouge	30	Fidelis New Energy	Hydrotreatment	616	1,772,000	2027
US	Richardton	31	Gevo	AtJ			
US	Texas	32	Infinium 3	PtL			2026
US	North Carolina	33	Lydian	PtL	0	26	2025
US	Quincy	34	NXT Clean Fuels	Hydrotreatment	393	1,131,590	2028
US	Hull	35	Readifuels	Other	6	16,248	2025
US		36	Red Rock Biofuels	Gasification + FT	20	57,400	
US	Houston	37	Santa Maria Renewables	Hydrotreatment	23	66,155	2026
US	Industrial Business Park	38	SkyNRG 3	Gasification + FT	50	143,278	2029
US	Columbia	39	Strategic Biofuels	Gasification + FT	32	92,061	2027
US	Bon Wier	40	USA Bioenergy	Gasification + FT	11	31,888	2025
US	Natchez	41	Velocys 2	Gasification + FT	35	100,692	2028
Brazil	Rio de Janeiro	42	Itaipu	PtL	1	2,200	-
Brazil	São Francisco do Conde	43	Acelen Renewables	Hydrotreatment	153	441,000	2028
Brazil	Manaus	44	Brasil Biofuels (BBF)	Hydrotreatment	74	212,800	2026
Brazil	Paulínia	45	Petrobras	AtJ			
Brazil	Gaslub Itaboraí	46	Petrobras	Hydrotreatment	123	353,000	2028
Brazil	Cubatão	47	Petrobras	Co-processing	94	271,581	2028
Brazil	Rio Grande	48	Refinaria Riograndense	Hydrotreatment	103	295,264	2028
Brazil	Mato Grosso	49	Sempen	PtL			
Canada	Quebec	50	SAF+ Consortium	PtL	8	23,000	2025
Canada	Nova Scotia	51	Simply Blue	PtL	52	150,000	2029
Canada	Northwest Territories	52	Reconciliation Energy Transition	HEFA-SPK	10	28,769	2025
Canada	Estevan	53	Covenant Energy	Hydrotreatment	68	195,000	2026
Canada	Calgary	54	Reconciliation Energy Transition Inc.	Hydrotreatment	10	28,769	2025
Canada	Toronto	55	Refuel Energy Inc	Hydrotreatment	47	135,791	2025
Colombia	Facatativa or eastern Llanos	56	Bio D	HEFA-SPK	50	144,000	2027
Uruguay	La Teja, Montevido	57	Ancap	HEFA-SPK	62	180,000	2026
Uruguay		58	Avalon BioEnergy	Hydrotreatment	35	100,000	2026
Panama	Colón	59	SGP Bioenergy	Hydrotreatment	460	1,324,850	2027
Paraguay	Villeta	60	ECB Group	Hydrotreatment	139	400,000	2025

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Operational facilities | North America & South America



Operational | Operational Year

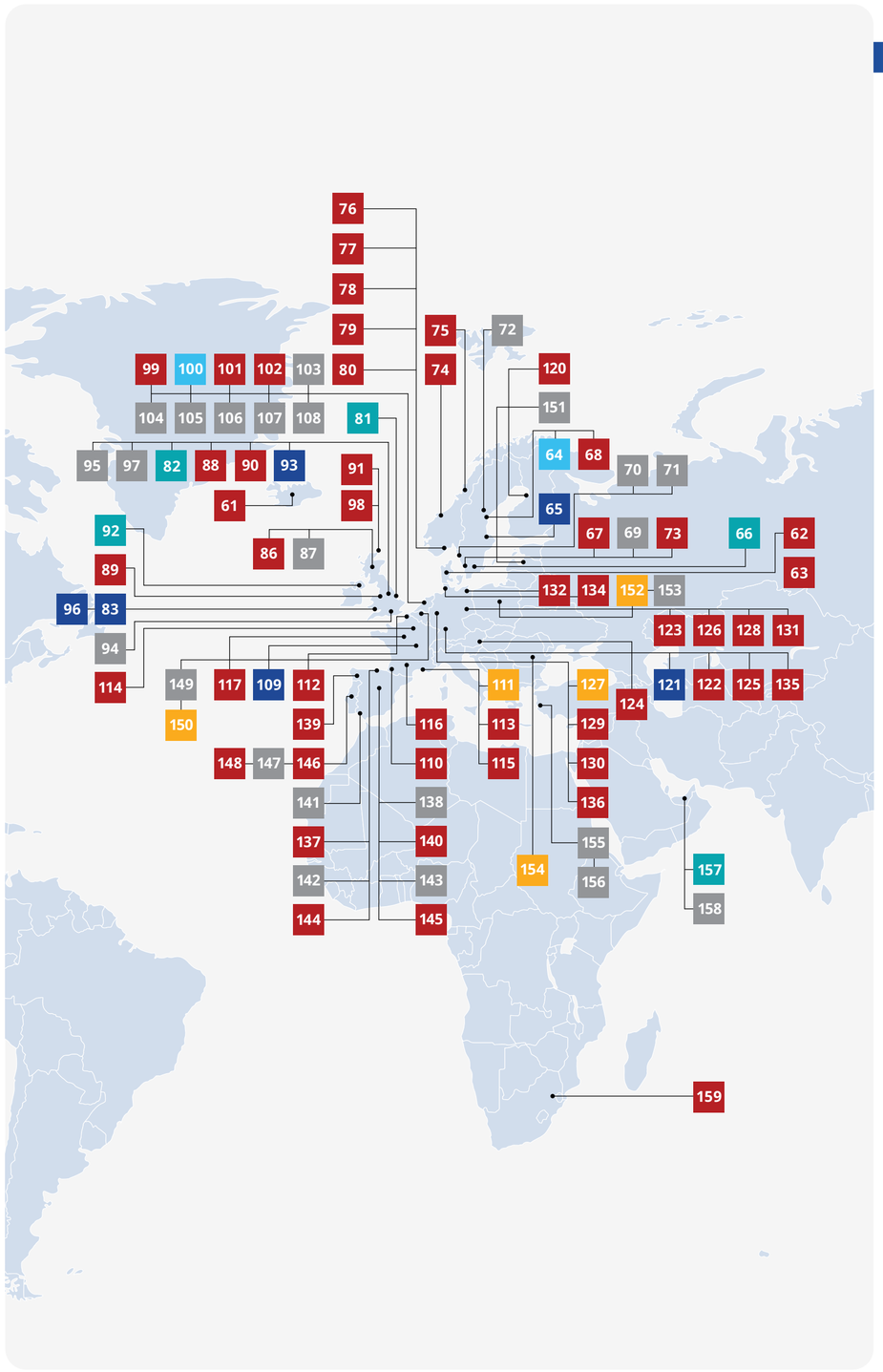
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Country	Location	Company	Type of Facility	Total plant capacity [mn USG/yr]	Total SAF capacity [MT/yr]	Operational Year
US	Tuscon, Arizona	01 Dimensional Energy	PtL	0.001825	1	2022
US	Paramount, California	02 World Energy	HEFA-SPK	50	144,000	2018
US	Soperton, Georgia (Freedom Pines Fuels facility)	03 LanzaJet	AtJ-SPK	10	29,000	2024
US	Reno, Nevada	04 XCF	HEFA-SPK	38	109,323	2014
US	Corpus Christi, Texas	05 Infinium	PtL	32	48,902	2024
US	Bay Minette	06 Alleo Energy	Pyrolysis	2	6,367	2024
US	Great Falls	07 Calumet Specialty Products Partners	Hydrotreatment	170	488,847	2023
US	El Segundo	08 Chevron Renewable Energy Group	Co-processing	79	226,500	2021
US	Soperton	09 LanzaJet 3	AtJ	10	29,000	2023
US	Convent	10 Shell	Hydrotreatment	231	664,200	2024
Canada		11 Refuel Energy Inc	Hydrotreatment	47	135,791	2025
Canada		12 Cresta Fund Management (Braya Renewable Fuels)	Hydrotreatment	51	147,106	2023

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Planned facilities | Europe, Middle East and Africa



Operational | Operational Year

Type of facility

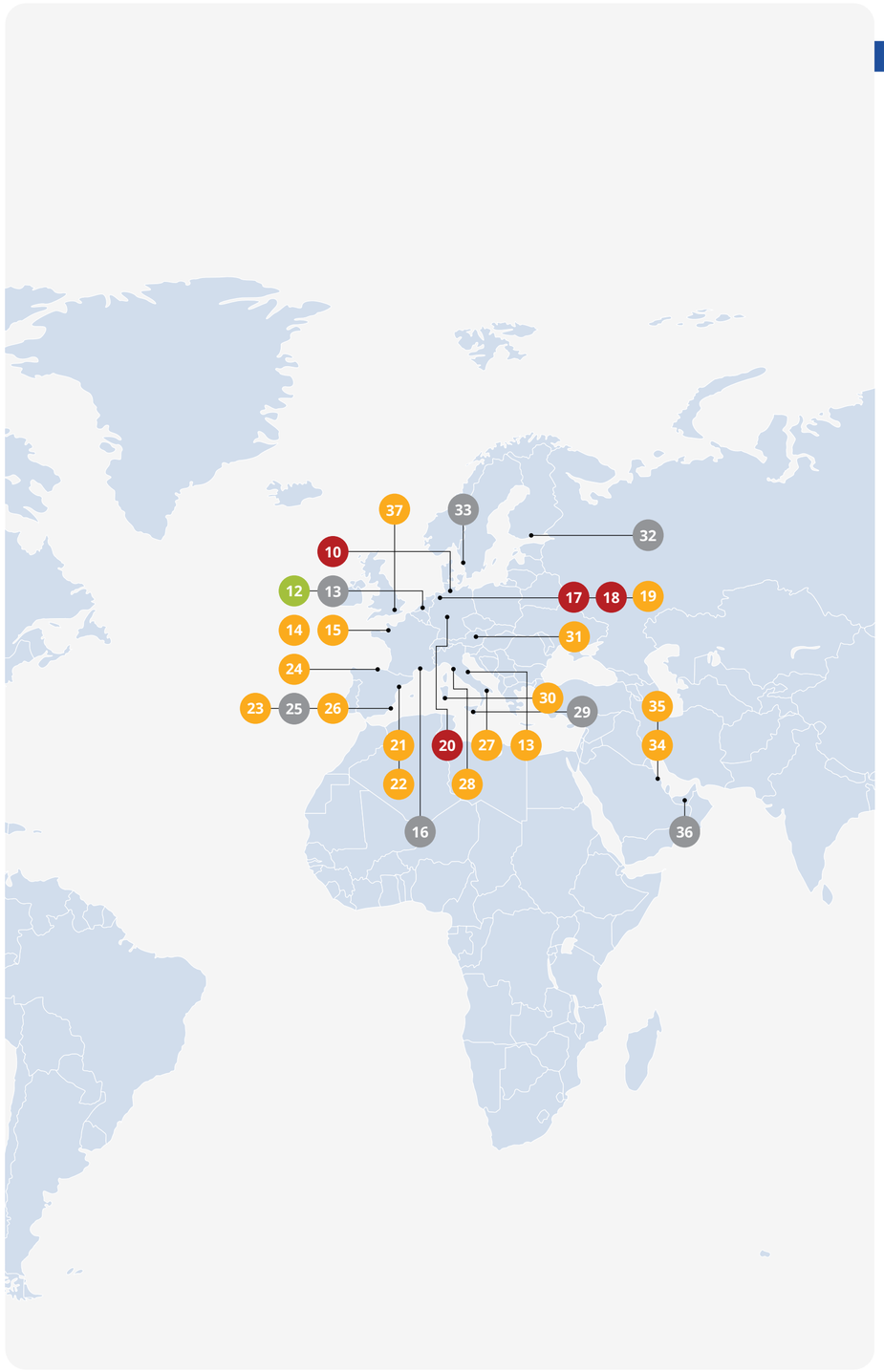
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Country	Location		Company	Type of Facility	Total plant capacity [mn USG/yr]	Total SAF capacity [MT/yr]	Operational Year
Iceland	Helguvik Harbour	61	IðunnH2	PtL	22.6	65,000	2027
Denmark	Vordingborg, Zeeland	62	Arcadia eFuels	PtL	26	76,000	2026
Denmark		63	Metafuels/European Energy	Other	1	3,500	
Sweden	Ostrand, Timra	64	SCA	HEFA-SPK	104	300,000	2028
Sweden	Gävleborg, Norrsundet	65	ColabitOil	AtJ	132	390,000	
Sweden	Vaxjo	66	KLM/SkyNRG/Vaxjo Energi/Sodra/ RISE/2030-sekretariatet	FT-SPK	5	16,000	2026
Sweden	West coast	67	Vattenfall/St1	PtL			2029
Sweden	Västerbotten, Port of Skellefteå	68	SkyNRG/Skelleftea Kraft	PtL	34	100,000	2030
Sweden	Gothenburg	69	Preem	Hydrotreatment	271	780,000	2027
Sweden	Lysekil	70	Preem	Hydrotreatment	165	475,000	2027
Sweden	Lysekil	71	Preem	Hydrotreatment	43	125,000	2028
Sweden	Långsele	72	Uniper and Sasol ecoFT	Gasification + FTt	35	100,000	2028
Sweden	West coast	73	Vattenfall/St1	PtL			2029
Norway	Mosjoen	74	Norsk e-Fuel/ Norwegian	PtL	13	38,000	2026
Norway	Mo I Rana	75	Infinium	PtL	31	90,000	2030
Norway	Nordland, Satakunta	76	Norsk e-Fuel/ Norwegian	PtL	26	76,000	2032
Norway	Porsgrunn, Herøya	77	Nordic Electrofuel	PtL	2	7,600	2025
Norway	Herøya	78	Nordic Electrofuel 2	PtL	12	34,200	2028
Norway	Herøya	79	Nordic Electrofuel 3	PtL	53	152,000	2031
Norway	Herøya	80	Nordic Electrofuel 4	PtL	197	566,200	2033
UK	Immingham	81	Altalto (Velocys)	FT-SPK	21	62,400	2028
UK	Billingham, Teeside	82	Lighthouse Green Fuel (Alfanar)	FT-SPK	43	124,400	2028
UK	Port Talbot, South Wales	83	Project DRAGON (Lanzajet)	AtJ-SPK	26	76,000	2026
UK		84	AtmosFUEL (LanzaJet, Carbon Engineering)	AtJ-SPK	26	76,100	2030
UK	Southeast UK	85	Firefly Green Fuels	Pyrolysis	34	100,000	2028
UK	Teeside	86	Carbon Neutral Fuels (CNF)	PtL	4	12,000	2027
UK	Teeside	87	Abundia Biomass-to-Liquids	Pyrolysis/ hydrotreating	1	2,600	2026
UK	Teeside	88	Arcadia e-Fuels	PtL	23	67,700	2028
UK	Sheffield	89	OXCCU Tech (OXEFUEL BIOGENIC)	PtL	2	7,400	2026
UK	Teeside	90	Willis Sustainable Fuels (Carbonshift PtL)	PtL	5	14,440	2026
UK	Orkney	91	Zero Petroleum (PMZ.2)	PtL	2	6,100	2026
UK	County Londonderry, Northern Ireland	92	Renovare	FT-SPK	0.3	761	2025
UK	Wilton International industrial complex	93	British Airways, LanzaJet and Nova Pangaea Technologies	AtJ	28	80,000	2028
UK	Fawley	94	Esso Petroleum Company (Solent SAF)	Gasification + FT	70	200,000	2032
UK	Teesside	95	Greenergy	Pyrolysis	4	11,000	2026
UK	Port Talbot	96	LanzaJet 2	AtJ	26	76,000	2028
UK	Sunderland	97	Wastefront	Pyrolysis	8	22,500	2026
UK	Orkney	98	Zero Petroleum 2	PtL	2	6,100	2026
Netherlands	Amsterdam	99	SkyNRG	PtL	34	100,000	2027
Netherlands	Delfzijl	100	SkyNRG	HEFA-SPK	34	100,000	2027
Netherlands	Rotterdam	101	Power2X/Advario	PtL	86	250,000	2030
Netherlands	Amsterdam	102	Ineratec/Zenith Energy Terminals	PtL	12	35,000	2027
Netherlands	Rotterdam	103	Enerkem	Gasification + FT	21	60,000	2026
Netherlands	Botlek	104	Koole Terminals 2	Other	156	450,000	2025
Netherlands	Rotterdam	105	Neste	Hydrotreatment	261	750,000	2027
Netherlands	Pernis Refinery	106	Shell	Hydrotreatment	285	820,000	2028
Netherlands	Rotterdam	107	UPM Biofuels	Hydrotreatment	87	250,000	2028
Netherlands	Rotterdam	108	Varo, Gunvor	Hydrotreatment	43	122,500	2028
France	Châlons-en-Champagne	109	Haffner Energy	AtJ	10	60,000	2028

Country	Location		Company	Type of Facility	Total plant capacity [mn USG/yr]	Total SAF capacity [MT/yr]	Operational Year
France	Lacq Basin	110	Elyse Energy/Avril/Axens	PtL	38	110,000	2027
France	Gonfreville	111	TotalEnergies	Co-processing	8	25,000	2025
France	Dunkirk	112	Engie, Infinium, ArcelorMittal	PtL	24	71,000	2028
France	Gurdanne, France	113	HyNovera (Hy2Gen)	PtL	11	32,000	2027
France	Le Havre	114	Lhyfe/SAF+ International Group	PtL	25	72,000	2030
France	Marseille	115	H2V/SAF+ Consortium	PtL	27	80,000	2030
France	Occitania	116	Qair	PtL	24	70,000	2029
France	Loire-Atlantique	117	Holcim/Axens/EdF/IFPEN	PtL	17	50,000	2028
France	Grandpuits-Bailly-Carrois	118	TotalEnergies	Hydrotreatment	35	100,000	2025
France	Grandpuits-Bailly-Carrois	119	TotalEnergies	Hydrotreatment	73	210,000	2026
France	Oulu Port	120	Verso Energy	PtL	28	80,000	2029
Germany	Speyer	121	Gevo / HCS Group	AtJ-SPK	20	60,000	2027
Germany	Heidenheim-Mergelstetten	122	SkyNRG/Stuttgart Airport/Schwenk Zement	PtL	17	50,000	2028
Germany	Janschwalde, Brandenburg	123	Hy2Gen (Green Areal Lausitz)	PtL	22	64,000	2028
Germany	Rudersdorf	124	CEMEX/SASOL	PtL	5	15,000	2030
Germany	Frankfurt, Hesse	125	Ineratec/Safran/Engie	PtL	1	2,500	2025
Germany	Bohlen-Lippendorf, Saxony	126	xFuels	PtL	17	50,000	2027
Germany	Gelsenkirchen	127	BP	Co-processing			2025
Germany	Emsland	128	HH2E/DHL/Sasol	PtL	69	200,000	2030
Germany	Unannounced	129	Chemieanlagenbau Chemnitz GmbH (CAC)	PtL	0.1	369	2026
Germany	Werlte	130	Atmosfair 2	PtL	69	199,365	2030
Germany	Leuna	131	DLR	PtL	1	1,500	2026
Germany	Lubmin	132	HH2E, DHL, Sasol	PtL	70	200,000	2030
Germany		133	HOLBORN Europa Raffinerie	Hydrotreatment	38	110,000	2027
Germany	Heide Refinery	134	Klesch	PtL	7	20,000	2025
Germany	Karlsruhe	135	Miro	PtL	9	25,000	2027
Germany	Wesseling	136	Shell	PtL	35	100,000	2026
Spain	Bilbao	137	Repsol	PtL	0.8	2,319	2025
Spain	Castile and León, Garray	138	Solarig	Gasification + FT	20	60,000	2028
Spain	Curtis	139	Greenalia/P2X-Europe	PtL	6	20,000	2026
Spain	Toledo	140	Ignis PX / Exolum	PtL	35	100,000	
Spain	Huelva	141	Moeve / Bio-Oils	Hydrotreatment	87	250,000	2026
Spain	Gijón	142	Preco	Pyrolysis	22	64,000	
Spain	Puertollano	143	Repsol	Hydrotreatment	83	240,000	2025
Spain	Cantabria	144	RIC Energy	PtL	35	100,000	2030
Spain	Unannounced	145	Synhelion	PtL	0	1,000	2025
Portugal	Figueira da Foz	146	P2X Europe / Navigator	PtL	13	40,000	2026
Portugal	Sines	147	Galp/Mitsui	Hydrotreatment	47	134,000	2026
Portugal	Figueira da Foz	148	P2X Europe / Navigator 2	PtL	14	40,000	2028
Belgium	Antwerp	149	OMV	Hydrotreatment	101	290,000	2028
Belgium	Antwerp	150	TotalEnergies	Co-processing	17	50,000	2025
Latvia	Kundzinsala	151	Port of Riga	Hydrotreatment	30	87,000	2027
Poland	Płock	152	PKN Orlen	Co-processing	104	300,000	2025
Poland	Płock	153	PKN Orlen	Hydrotreatment	21	60,000	2025
Romania	Ploiești	154	OMV Petrom	Co-processing	35	100,000	2028
Turkey	Izmir	155	DB Tarımsal Enerji Sanayi ve Ticaret A.Ş	Hydrotreatment	35	100,000	2027
Turkey	Izmir	156	Tupras	Hydrotreatment	104	300,000	2026
UAE	Abu Dhabi	157	Etihad/Tadweer	FT-SPK	140	403,000	2026
UAE	Emirate of Fujairah, Mena Terminals	158	Maritime Group/Mercantile	Hydrotreatment	40	115,150	2026
South Africa	Secunda	159	HyShift (Linde/Sasol/Enertrag/Hydregen)	PtL	17	50,000	2028

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Operational facilities | Europe, Middle East and Africa



Operational | Operational Year

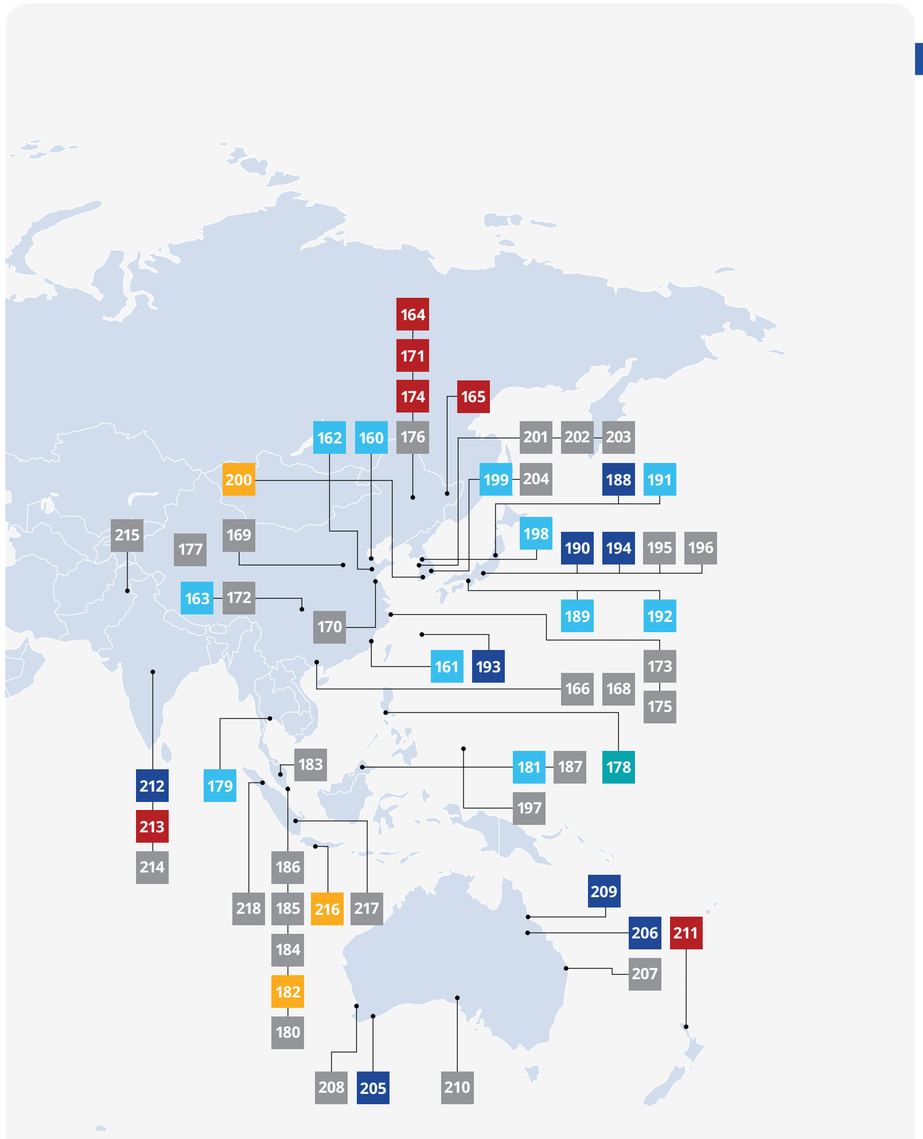
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Country	Location	Company	Type of Facility	Total plant capacity [mn USG/yr]	Total SAF capacity [MT/yr]	Operational Year
Netherlands	Botlek, Rotterdam	12 Koole Terminals	Other	68	200,000	2020
Netherlands	Rotterdam	13 Neste	Hydrotreatment	156	450,000	2011
France	Oudalle, Normandy	14 TotalEnergies	Co-processing			2022
France	Oudalle	15 TotalEnergies	Co-processing	21	59,000	2021
France	Châteauneuf-les-Martigues	16 TotalEnergies	Hydrotreatment	35	100,000	2019
Germany	Werlte	17 Atmosfair	PtL	0.127	365	2021
Germany	Lingen	18 Synhelion	PtL	0.4	1,000	2024
Germany	Lingen	19 BP	Co-processing	1	2,000	2022
Germany	Neuhof	20 H&R Group, Mabanaft GmbH & Co. KG, P2X-Europe GmbH & Co. KG, INERATEC GmbH	PtL			2022
Spain	Tarragona	21 Repsol	Co-processing	17	50,000	2020
Spain	Castellón de la Plana	22 BP	Co-processing	2	6,818	2018
Spain	Cartegena	23 Ecopetrol	Co-processing	1	3,867	2024
Spain	Bilbao	24 Repsol	Co-processing	1	2,500	2023
Spain	Cartagena	25 Repsol	Hydrotreatment	17	50,000	2024
Spain	Cartagena	26 Repsol	Co-processing	1	2,500	2015
Italy	Taranto	27 ENI	Co-processing	45	130,000	2021
Italy	Livorno	28 ENI	Co-processing	3.5	10,000	2022
Italy	Gela	29 ENI	Hydrotreatment	52	150,000	2018
Italy	Sarroch refinery	30 Saras	Co-processing	21	60,000	2019
Austria	Schwechat	31 OMV Schwechat refinery	Co-processing	1.4	4,000	2022
Finland	Porvoo	32 Neste	Hydrotreatment	35	100,000	2010
Sweden	Gothenburg	33 SCA/St1	Hydrotreatment	28	80,000	2024
Saudi Arabia	Satorp, Jubail	34 TotalEnergies	Co-processing			2023
Saudi Arabia	Jubail	35 HyShift (Linde/Sasol/Enertrag/Hydregen)	Co-processing	9	25,000	2023
UAE		36 Petrixo	Hydrotreatment			2015
UK	Kingston upon Hull	37 Phillips 66	Co-processing	12	33,900	2019

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Planned facilities | Asia Pacific



Operational | Operational Year

Type of facility

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Country	Location		Company	Type of Facility	Total plant capacity [mn USG/yr]	Total SAF capacity [MT/yr]	Operational Year
China	Dongying, Shandong	160	Haike	HEFA-SPK	173	500,000	2025
China	Fujian	161	Zhuoyue	HEFA-SPK	35	100,000	2025
China	Rizhao, Shandong	162	Beijing Haixin Energy Technology	HEFA-SPK	69	200,000	2025
China	Weiyuan, Sichuan	163	Sichuan Tianzhou Green Technology (Phase 1)	HEFA-SPK	69	200,000	2025
China	Qiqihaer, Heilongjiang	164	State Power Investment Corporation	PtL	3.5	10,000	2025
China	Shuangyashan	165	China Energy Engineering (CEEC)	PtL	35	100,000	2027
China	Qinzhou	166	Chuangui New Energy	Hydrotreatment	37	105,885	2026
China	Qinzhou	168	Guangxi Hongkun Biomass	Hydrotreatment	22	63,000	2026
China	Hebi	169	Hebi Huashi (Beijing Haixin Energy Technology)	Hydrotreatment			
China	Guanyun County	170	Jiaao 2	Hydrotreatment	174	500,000	2028
China	Hebei	171	LanzaJet 4	PtL			
China	Weiyuan County	172	Sichuan Tianzhou Green Technology 2	Hydrotreatment	104	300,000	2030
China	Zhenhai	173	Sinopec 2	Hydrotreatment	56	160,000	
China	Qiqihar	174	State Power Investment Corporation 2	PtL	136	390,000	2030
China	Zhoushan	175	Zhejiang Jianglan Bio-Energy Technology Co. Ltd.	Hydrotreatment	104	300,000	2026
China	Hebei	176	Zhongneng Yida (Zhongneng Ronghe)	Hydrotreatment	139	400,000	2026
China		177	Zhuoyue	Hydrotreatment	70	200,000	2025
Philippines	Manila	178	WasteFuel	FT-SPK	30	86,309	2025
Thailand	Sukhumvit Alley	179	Bangchak Petroleum / Thanachok Oil Light Company Limited	HEFA-SPK	96	315,000	2025
Thailand	Map Ta Phut	180	PTT Global Chemical Public Company	Hydrotreatment	6	18,240	2025
Malaysia	Kota Kinabalu, Sabah	181	Vandelay Ventures/Suria Capital	HEFA-SPK	87	250,000	2024
Malaysia	Sungai Udang, Melaka	182	Petronas	Co-processing			2026
Malaysia		183	EcoCeres	Hydrotreatment	73	210,000	2025
Malaysia	Pengerang	184	Petronas/ENI/Euglena	Hydrotreatment	35	100,000	2028
Malaysia	Pengerang	185	Petronas/ENI/Euglena	Hydrotreatment	127	365,795	2028
Malaysia	Pengerang Maritime Industrial Park	186	Shanxi Construction Investment Group/MPOB	Hydrotreatment	87	250,000	
Malaysia	Kota Kinabalu	187	Vandelay Ventures/Suria Capital	Hydrotreatment	87	250,000	2025
Japan	Chiba	188	Cosmo Oil/Mitsui/Lanzajet	AtJ-SPK	60	172,000	2027
Japan	Chiba	189	ENEOS/TotalEnergies	HEFA-SPK	106	304,000	2027
Japan	Chiba	190	Idemitsu	AtJ-SPK	26	76,000	2026
Japan		191	Idemitsu	HEFA-SPK	105	304,000	2030
Japan	Sakai, Osaka	192	Saffaire Sky Energy (Cosmo Oil, JGC and Revo International)	HEFA-SPK	8	22,800	2025
Japan	Nansei Sekiyu, Okinawa	193	Taiyo Oil	AtJ-SPK	58	167,000	2028
Japan	Kawasaki	194	Biomaterial in Tokyo Co. Ltd (BITS), Byogy Renewables	AtJ-SPK	8	22,713	2025
Japan	Yokohama	195	Euglena				2025
Japan		196	Revo	AtJ-SPK	0	69	2025
Singapore	Palau	197	Shell	Hydrotreatment			
South Korea	Daesan	198	LG Chem/ENI	HEFA-SPK	111	320,000	2027
South Korea	Ulsan	199	SK Energy	HEFA-SPK	174	500,000	2026
South Korea	Ulsan	200	S-Oil	Co-processing	52	150,000	2024
South Korea	Daesan	201	Hanwha TotalEnergies	Hydrotreatment	94	270,000	2026
South Korea	Daesan	202	Hyundai Oilbank	Hydrotreatment	87	250,000	2027
South Korea	Daesan	203	LG Chem, Dansuk	Hydrotreatment			2025
South Korea	Ulsan	204	S-Oil 2	Hydrotreatment	174	500,000	2028
Australia	Esperance, WA	205	Renewable.bio	AtJ-SPK	10.5	30,000	2026
Australia	Queensland, EA	206	Wagner Sustainable Fuels	AtJ-SPK	27	86,298	2025
Australia	Brisbane	207	Ampol/ENEOS	Hydrotreatment	136	390,000	2026
Australia	City of Kwinana	208	BP	Hydrotreatment	157	452,635	2026
Australia	Townsville	209	Jet Zero Australia/Lanzajet	Alcohol to Jet (AtJ)	27	77,000	2027
Australia	Southern Australia	210	Zero Petroleum	Hydrotreatment	3	7,600	
New Zealand	Marsden Point, Auckland	211	Fortescue Future Industries	PtL	15	46,000	2027
India	Panipat	212	India Oil Corporation/Lanzajet	AtJ-SPK	30	88,000	2027
India	Unannounced	213	GPS Renewables/SAF One	PtL	5	15,000	2028
India	Panipat	214	India Oil Corporation/Lanzajet 2	Hydrotreatment	30	86,800	2026
Pakistan	Sheikhupura	215	SAFCO Venture Holdings Ltd	Hydrotreatment	70	200,000	
Indonesia	Cilacap Regency	216	Pertamina	Co-processing	44	127,105	2026
Indonesia	Palembang	217	Pertamina	Hydrotreatment	157	452,500	2027
Indonesia	Sei Mangkei	218	PT Tripatra Engineering	Hydrotreatment	21	60,000	2027

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Operational facilities | Asia Pacific



Operational | Operational Year

Type of facility

- **AtJ**
  Alcohol-to-Jet Synthetic Paraffinic Kerosene
- **HEFA**
  Hydroprocessed Esters and Fatty Acids
- **Co-processing**
- **Distillation**
- **FT-SPK**
  Fischer-Tropsch Synthetic Paraffinic Kerosene
- **PtL**
  Power-to-Liquid
- **Other**
  (CHJ/HEFA-SPK, Gasification/methanol-to-jet, HTL, Pyrolysis, Pyrolysis/hydrotreating, Sun-to-Liquid, Thermal cracking)

Country	Location	Company	Type of Facility	Total plant capacity [mn USG/yr]	Total SAF capacity [MT/yr]	Operational Year
China	Guanyun, Jiangsu	38 Jiaao	HEFA-SPK	174	500,000	2024
China	Zhenhai	39 Sinopec	HEFA-SPK	34	100,000	2022
China	Puyang	40 Junheng Industrial Group Biotechnology	Hydrotreatment	70	200,000	2022
China	Panjin	41 Panjin Pengyao Bioenergy	Hydrotreatment	9	25,000	2023
China	Anyang	42 Shandong Baoshun (Beijing Haixin Energy Technology)	Hydrotreatment	5	15,000	2022
China	Zhangjiagang	43 EcoCeres	Hydrotreatment	43	125,000	2018
Japan	Sakai	44 Saffaire Sky Energy (Cosmo Oil, JGC and Revo International) 2	Co-processing	7	21,778	2025
Japan	Yokohama	45 ENEOS	FT-SPK	0.0100	44	2024
Japan	Yokohama	46 Euglena	Other	0	95	2023
Singapore	Tuas	47 Neste	Hydrotreatment	339	1,000,000	2010
South Korea	Daesan	48 Hyundai Oilbank	Co-processing	52	150,000	2024
South Korea	Ulsan	49 SK Energy	Co-processing	27	80,000	2024
Australia	Gladstone	50 Oceania Biofuels	Hydrotreatment	24	68,250	2022
India	Pune	51 Praj	AtJ-SPK			2024
Indonesia	Cilacap Regency	52 Pertamina	Co-processing	24	67,895	2021
Indonesia	Dumai	53 Pertamina	Co-processing	16	45,264	2020

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