



Refinery Capacity Report

June 2024

With data as of January 1, 2024

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Table 1. Number and Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2024

PAD District and State	Number of Operable Refineries			Atmospheric Crude Oil Distillation Capacity					
				Barrels per Calendar Day			Barrels per Stream Day		
	Total	Operating	Idle ^a	Total	Operating	Idle ^b	Total	Operating	Idle ^b
PAD District I	8	8	0	909,800	909,800	0	965,900	965,900	0
Delaware.....	1	1	0	171,000	171,000	0	180,000	180,000	0
New Jersey.....	3	3	0	450,500	450,500	0	473,100	473,100	0
Pennsylvania.....	3	3	0	266,000	266,000	0	289,800	289,800	0
West Virginia.....	1	1	0	22,300	22,300	0	23,000	23,000	0
PAD District II	25	25	0	4,245,662	4,245,662	0	4,480,440	4,480,440	0
Illinois.....	4	4	0	1,045,214	1,045,214	0	1,102,620	1,102,620	0
Indiana.....	2	2	0	469,500	469,500	0	475,700	475,700	0
Kansas.....	3	3	0	408,200	408,200	0	418,100	418,100	0
Kentucky.....	1	1	0	300,000	300,000	0	316,000	316,000	0
Michigan.....	1	1	0	140,000	140,000	0	152,000	152,000	0
Minnesota.....	2	2	0	440,000	440,000	0	486,000	486,000	0
North Dakota.....	1	1	0	71,000	71,000	0	75,500	75,500	0
Ohio.....	4	4	0	606,600	606,600	0	630,000	630,000	0
Oklahoma.....	5	5	0	547,148	547,148	0	569,520	569,520	0
Tennessee.....	1	1	0	180,000	180,000	0	205,000	205,000	0
Wisconsin.....	1	1	0	38,000	38,000	0	50,000	50,000	0
PAD District III	58	58	0	9,987,031	9,987,031	0	10,567,155	10,567,155	0
Alabama.....	3	3	0	142,100	142,100	0	148,700	148,700	0
Arkansas.....	2	2	0	90,500	90,500	0	92,700	92,700	0
Louisiana.....	15	15	0	2,971,022	2,971,022	0	3,117,355	3,117,355	0
Mississippi.....	3	3	0	393,940	393,940	0	415,000	415,000	0
New Mexico.....	1	1	0	110,000	110,000	0	124,000	124,000	0
Texas.....	34	34	0	6,279,469	6,279,469	0	6,669,400	6,669,400	0
PAD District IV	15	15	0	652,164	642,564	9,600	700,700	690,700	10,000
Colorado.....	2	2	0	103,000	103,000	0	111,700	111,700	0
Montana.....	4	4	0	214,600	205,000	9,600	223,400	213,400	10,000
Utah.....	5	5	0	208,714	208,714	0	220,200	220,200	0
Wyoming.....	4	4	0	125,850	125,850	0	145,400	145,400	0
PAD District V	26	26	0	2,589,571	2,589,571	0	2,738,400	2,738,400	0
Alaska.....	5	5	0	165,500	165,500	0	180,000	180,000	0
California.....	14	14	0	1,680,371	1,680,371	0	1,783,900	1,783,900	0
Hawaii.....	1	1	0	93,500	93,500	0	95,000	95,000	0
Nevada.....	1	1	0	2,000	2,000	0	5,000	5,000	0
Washington.....	5	5	0	648,200	648,200	0	674,500	674,500	0
U.S. Total	132	132	0	18,384,228	18,374,628	9,600	19,452,595	19,442,595	10,000

Table 1. Number and Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2024

PAD District and State	Downstream Charge Capacity (Barrels per Stream Day)							Fuels Solvent Deasphalting
	Vacuum Distillation	Thermal Cracking	Catalytic Cracking		Catalytic Hydro- Cracking	Catalytic Reforming	Hydrotreating/ Desulfurization	
			Fresh	Recycled				
PAD District I	391,200	54,500	305,000	5,000	47,000	182,900	754,800	22,000
Delaware	104,600	54,500	82,000	4,000	24,000	43,000	180,300	0
New Jersey	165,000	0	145,000	0	0	69,000	298,100	22,000
Pennsylvania	113,000	0	78,000	1,000	23,000	66,200	252,300	0
West Virginia	8,600	0	0	0	0	4,700	24,100	0
PAD District II	1,863,142	610,805	1,367,535	8,800	369,000	904,858	4,190,985	19,000
Illinois	491,800	214,420	324,300	0	108,000	250,100	977,710	0
Indiana	290,700	102,000	185,900	200	0	73,700	619,100	0
Kansas	163,500	75,000	104,800	500	43,000	85,500	406,400	0
Kentucky	134,000	0	109,000	0	0	58,000	281,500	14,500
Michigan	90,500	40,000	44,000	0	0	21,500	137,500	0
Minnesota	285,000	82,000	127,000	2,500	67,000	72,500	439,000	4,500
North Dakota	0	0	28,000	3,600	0	12,500	62,100	0
Ohio	164,500	59,000	206,300	0	110,500	172,300	523,400	0
Oklahoma	214,042	38,385	156,912	2,000	14,000	113,458	571,775	0
Tennessee	0	0	70,000	0	26,500	36,000	132,000	0
Wisconsin	29,100	0	11,323	0	0	9,300	40,500	0
PAD District III	4,696,325	1,715,880	2,836,390	16,500	1,389,300	1,859,056	9,440,524	257,500
Alabama	55,000	38,500	0	0	24,000	41,500	123,200	0
Arkansas	48,850	0	21,000	0	0	15,300	98,750	0
Louisiana	1,539,100	577,000	946,000	3,500	456,900	570,400	2,698,400	72,000
Mississippi	354,875	104,000	88,000	0	119,000	101,600	307,300	0
New Mexico	34,300	0	30,000	0	18,000	24,000	118,000	18,000
Texas	2,664,200	996,380	1,751,390	13,000	771,400	1,106,256	6,094,874	167,500
PAD District IV	243,800	76,000	211,860	1,990	37,200	120,550	569,280	6,000
Colorado	33,500	0	30,000	500	0	21,900	87,430	0
Montana	124,400	46,000	67,160	990	6,200	35,500	214,650	0
Utah	34,900	10,000	74,700	0	15,000	37,750	152,800	6,000
Wyoming	51,000	20,000	40,000	500	16,000	25,400	114,400	0
PAD District V	1,422,106	562,400	766,400	16,600	557,600	534,400	2,347,600	80,000
Alaska	26,000	0	0	0	13,000	13,500	24,500	0
California	1,033,256	464,600	619,000	13,600	459,600	365,500	1,783,500	56,000
Hawaii	40,000	11,000	0	0	20,000	13,500	13,000	0
Nevada	2,750	0	0	0	0	0	0	0
Washington	320,100	86,800	147,400	3,000	65,000	141,900	526,600	24,000
U.S. Total	8,616,573	3,019,585	5,487,185	48,890	2,400,100	3,601,764	17,303,189	384,500

^a Refineries where distillation units were completely idle but not permanently shutdown on January 1, 2024.

^b Includes capacity from refineries that are either completely or partially idle.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 2. Production Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

PAD District and State	Production Capacity							
	Alkylates	Aromatics	Asphalt and Road Oil	Isomers	Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons/day)
PAD District I	47,800	5,191	45,260	19,280	20,945	13,620	109	1,074
Delaware	12,500	5,191	0	6,000	0	13,620	65	596
New Jersey	18,800	0	21,000	4,000	12,000	0	31	320
Pennsylvania	16,500	0	23,560	9,280	2,945	0	10	157
West Virginia	0	0	700	0	6,000	0	3	1
PAD District II	309,386	112,600	281,900	169,350	9,900	194,550	659	8,655
Illinois	97,250	17,200	45,100	16,000	0	74,690	202	2,370
Indiana	34,400	16,800	33,200	31,750	0	30,000	0	1,913
Kansas	34,500	0	4,000	31,000	0	23,260	156	795
Kentucky	24,000	2,500	35,400	20,000	0	0	0	438
Michigan	8,500	0	32,000	0	0	12,850	0	435
Minnesota	21,000	0	64,500	33,500	0	28,400	209	1,339
North Dakota	5,500	0	0	0	0	0	0	15
Ohio	29,950	20,000	26,000	23,200	0	16,300	0	922
Oklahoma	35,586	21,000	21,700	13,900	9,900	9,050	62	275
Tennessee	17,000	29,000	0	0	0	0	30	116
Wisconsin	1,700	6,100	20,000	0	0	0	0	37
PAD District III	678,593	229,265	206,125	345,870	192,900	505,031	747	24,343
Alabama	0	0	26,000	9,650	0	8,000	45	233
Arkansas	5,000	0	21,300	8,000	6,000	0	13	90
Louisiana	225,700	34,400	88,000	115,720	66,000	164,436	118	5,979
Mississippi	22,000	15,600	16,125	0	48,000	35,500	242	1,264
New Mexico	9,500	0	7,000	0	0	0	38	224
Texas	416,393	179,265	47,700	212,500	72,900	297,095	291	16,553
PAD District IV	45,350	0	62,000	16,068	0	23,900	208	664
Colorado	0	0	13,200	0	0	0	22	116
Montana	17,350	0	39,000	6,750	0	15,600	134	243
Utah	21,700	0	1,800	9,318	0	2,500	0	92
Wyoming	6,300	0	8,000	0	0	5,800	52	213
PAD District V	235,562	1,500	49,050	228,400	39,800	152,570	1,190	5,640
Alaska	0	0	12,500	5,000	0	0	13	25
California	193,362	1,500	25,950	180,800	39,800	128,920	971	4,728
Hawaii	0	0	0	0	0	0	18	38
Nevada	0	0	1,600	0	0	0	0	0
Washington	42,200	0	9,000	42,600	0	23,650	188	849
U.S. Total	1,316,691	348,556	644,335	778,968	263,545	889,671	2,913	40,376

^a Includes hydrogen production capacity of hydrogen plants on refinery grounds and operated by the refinery operator.

MMcfd = Million cubic feet per day.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Directory of Operable Petroleum Refineries on Tables 3 and 4

Refiner	State(s)	Refiner	State(s)
Alon Refining Krotz Springs Inc.....		LA Lazarus Energy LLC.....	TX
Alon USA Energy Inc.....		TX Lima Refining Company.....	OH
American Refining Group Inc.....		PA Lion Oil Co.....	AR
Big West Oil Co.....		UT Magellan Processing LP.....	TX
BP Products North America Inc.....	IN, WA	Lunday Thagard Co.....	CA
Buckeye Texas Processing LLC.....	TX	Marathon Petroleum Co LP.....	IL, KY, LA, MI, OH, TX
Calcasieu Refining Co.....	LA	PDV Midwest Refining LLC.....	IL
Calumet Cotton Valley Refining LLC.....	LA	Par Hawaii Refining LLC.....	HI
Calumet Montana Refining LLC.....	MT	Par Montana LLC.....	MT
Calumet Princeton Refining LLC.....	LA	Pasadena Refining Systems Inc.....	TX
Calumet Shreveport Refining LLC.....	LA	Paulsboro Refining Co LLC.....	NJ
Cenex Harvest States Coop.....	MT	Petro Star Inc.....	AK
Chalmette Refining LLC.....	LA	Petromax Refining Co LLC.....	TX
Chevron USA Inc.....	CA, MS, UT	Phillips 66 Company.....	CA, LA, MT, NJ, OK, TX, WA
CHS McPherson Refinery Inc.....	KS	Martinez Refining Co LLC.....	CA
Citgo Petroleum Corp.....	LA	Placid Refining Co.....	LA
Citgo Refining & Chemical Inc.....	TX	Premcor Refining Group Inc.....	TX
ConocoPhillips Alaska Inc.....	AK	San Joaquin Refining Co Inc.....	CA
Countrymark Refining & Logistics LLC.....	IN	Shell Oil Products US.....	LA
CPI Operations LLC.....	NJ	Monroe Energy LLC.....	PA
Cross Oil Refining & Marketing Inc.....	AR	Silver Eagle Refining.....	UT, WY
CVR Refining CVL LLC.....	KS	Motiva Enterprises LLC.....	TX
CVR Refining WYN LLC.....	OK	Ohio Refining Company LLC.....	OH
Deer Park Refining LP.....	TX	St Paul Park Refining Co LLC.....	MN
Delaware City Refining Co LLC.....	DE	Suncor Energy (USA) Inc.....	CO
Delek Refining LTD.....	TX	Superior Refining Company LLC.....	WI
Diamond Shamrock Refining Co LP.....	TX	Talley Asphalt Products Inc.....	CA
Enterprise Prod Texas Operating LLC.....	TX	Targa Downstream LLC.....	TX
Equistar Chemicals LP.....	TX	Tesoro Alaska Company LLC.....	AK
Ergon Refining Inc.....	MS	Tesoro Refining & Marketing Co.....	CA, ND, UT, WA
Ergon West Virginia Inc.....	WV	Texas International Terminals.....	TX
Excel Paralubes.....	LA	The San Antonio Refinery LLC.....	TX
ExxonMobil Refining & Supply Co.....	IL, LA, TX	Toledo Refining Co LLC.....	OH
Flint Hills Resources LP.....	MN, TX	Torrance Refining Co LLC.....	CA
Foreland Refining Corp.....	NV	TotalEnergies Petrochem & Refg USA.....	TX
Goodway Refining LLC.....	AL	Trecora Hydrocarbons LLC.....	TX
Hartree Refining LLC.....	TX	Valero Refining Co Texas LP.....	TX
HF Sinclair Casper Refining Company.....	WY	US Oil & Refining Co.....	WA
HF Sinclair El Dorado Refining LLC.....	KS	Ultramar Inc.....	CA
HF Sinclair Navajo Refining LLC.....	NM	United Refining Co.....	PA
HF Sinclair Puget Sound Refg LLC.....	WA	Valero Ref Company Tennessee LLC.....	TN
HF Sinclair Tulsa Refining LLC.....	OK	Valero Refining - Meraux LLC.....	LA
HF Sinclair Woods Cross Refining LLC.....	UT	Valero Refining Co California.....	CA
HF Sinclair Wyoming Refining Co.....	WY	Valero Refining Co Oklahoma.....	OK
Hilcorp North Slope LLC.....	AK	Valero Refining New Orleans LLC.....	LA
Houston Refining LP.....	TX	Vertex Refining Alabama LLC.....	AL
Hunt Refining Co.....	AL	WRB Refining LP.....	IL, TX
Hunt Southland Refining Co.....	MS	Western Refining Company LP.....	TX
Kern Oil & Refining Co.....	CA	Wyoming Refining Co.....	WY
Kinder Morgan Crude & Condensate.....	TX		

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Alabama	142,100	0	148,700	0	55,000	38,500	0	0	0
Goodway Refining LLC									
Atmore	4,100	0	5,000	0	0	0	0	0	0
Hunt Refining Co									
Tuscaloosa	50,000	0	52,500	0	26,000	38,500	0	0	0
Vertex Refining Alabama LLC									
Saraland	88,000	0	91,200	0	29,000	0	0	0	0
Alaska	165,500	0	180,000	0	26,000	0	0	0	0
ConocoPhillips Alaska Inc									
Prudhoe Bay	15,000	0	16,000	0	0	0	0	0	0
Hilcorp North Slope LLC									
Prudhoe Bay	6,500	0	8,000	0	0	0	0	0	0
Petro Star Inc									
North Pole	21,000	0	24,000	0	0	0	0	0	0
Valdez	55,000	0	60,000	0	0	0	0	0	0
Tesoro Alaska Company LLC									
Kenai	68,000	0	72,000	0	26,000	0	0	0	0
Arkansas	90,500	0	92,700	0	48,850	0	0	0	0
Cross Oil Refining & Marketing Inc									
Smackover	7,500	0	7,700	0	3,850	0	0	0	0
Lion Oil Co									
El Dorado	83,000	0	85,000	0	45,000	0	0	0	0
California	1,680,371	0	1,783,900	0	1,033,256	407,600	52,000	5,000	0
Chevron USA Inc									
El Segundo	269,000	0	290,500	0	169,100	76,700	0	0	0
Richmond	245,271	0	257,200	0	123,456	0	0	0	0
Kern Oil & Refining Co									
Bakersfield	26,000	0	27,000	0	0	0	0	0	0
Lunday Thagard Co									
South Gate	8,500	0	10,000	0	5,000	0	0	0	0
Martinez Refining Co LLC									
Martinez	156,400	0	157,000	0	101,000	26,800	22,500	0	0
Phillips 66 Company									
Rodeo	58,200	0	62,000	0	93,200	51,000	0	0	0
Wilmington	139,000	0	159,000	0	83,400	53,200	0	0	0
San Joaquin Refining Co Inc									
Bakersfield	15,000	0	25,000	0	14,300	0	0	5,000	0
Talley Asphalt Products Inc									
Kern	1,700	0	2,000	0	0	0	0	0	0
Tesoro Refining & Marketing Co									
Carson	365,000	0	384,500	0	205,000	109,100	0	0	0
Torrance Refining Co LLC									
Torrance	160,000	0	166,200	0	102,300	62,000	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Alabama	0	0	0	24,000	0	19,500	22,000	0
Goodway Refining LLC								
Atmore	0	0	0	0	0	0	0	0
Hunt Refining Co								
Tuscaloosa	0	0	0	24,000	0	19,500	0	0
Vertex Refining Alabama LLC								
Saraland	0	0	0	0	0	0	22,000	0
Alaska	0	0	0	13,000	0	13,500	0	0
ConocoPhillips Alaska Inc								
Prudhoe Bay	0	0	0	0	0	0	0	0
Hilcorp North Slope LLC								
Prudhoe Bay	0	0	0	0	0	0	0	0
Petro Star Inc								
North Pole	0	0	0	0	0	0	0	0
Valdez	0	0	0	0	0	0	0	0
Tesoro Alaska Company LLC								
Kenai	0	0	0	13,000	0	13,500	0	0
Arkansas	21,000	0	0	0	0	15,300	0	0
Cross Oil Refining & Marketing Inc								
Smackover	0	0	0	0	0	0	0	0
Lion Oil Co								
El Dorado	21,000	0	0	0	0	15,300	0	0
California	619,000	13,600	232,200	227,400	0	171,800	193,700	56,000
Chevron USA Inc								
El Segundo	73,800	0	0	55,000	0	49,000	0	0
Richmond	90,000	0	0	103,400	0	71,300	0	56,000
Kern Oil & Refining Co								
Bakersfield	0	0	0	0	0	2,500	3,300	0
Lunday Thagard Co								
South Gate	0	0	0	0	0	0	0	0
Martinez Refining Co LLC								
Martinez	72,000	0	42,900	0	0	31,000	0	0
Phillips 66 Company								
Rodeo	0	0	0	69,000	0	0	34,000	0
Wilmington	51,600	0	27,500	0	0	0	36,200	0
San Joaquin Refining Co Inc								
Bakersfield	0	0	0	0	0	0	0	0
Talley Asphalt Products Inc								
Kern	0	0	0	0	0	0	0	0
Tesoro Refining & Marketing Co								
Carson	110,000	0	99,500	0	0	0	83,000	0
Torrance Refining Co LLC								
Torrance	90,000	13,600	28,300	0	0	0	0	0

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(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Alabama	45,700	0	21,500	17,000	28,500	0	10,500	0
Goodway Refining LLC								
Atmore	0	0	0	0	0	0	0	0
Hunt Refining Co								
Tuscaloosa	19,000	0	3,500	0	28,500	0	10,500	0
Vertex Refining Alabama LLC								
Saraland	26,700	0	18,000	17,000	0	0	0	0
Alaska	13,000	0	0	11,500	0	0	0	0
ConocoPhillips Alaska Inc								
Prudhoe Bay	0	0	0	0	0	0	0	0
Hilcorp North Slope LLC								
Prudhoe Bay	0	0	0	0	0	0	0	0
Petro Star Inc								
North Pole	0	0	0	0	0	0	0	0
Valdez	0	0	0	0	0	0	0	0
Tesoro Alaska Company LLC								
Kenai	13,000	0	0	11,500	0	0	0	0
Arkansas	20,000	8,750	0	35,000	0	0	21,000	14,000
Cross Oil Refining & Marketing Inc								
Smackover	0	0	0	0	0	0	0	6,000
Lion Oil Co								
El Dorado	20,000	8,750	0	35,000	0	0	21,000	8,000
California	397,700	215,000	203,800	252,100	81,100	0	563,600	70,200
Chevron USA Inc								
El Segundo	62,500	0	41,500	51,500	14,000	0	0	0
Richmond	57,600	64,800	96,000	64,800	0	0	65,000	34,000
Kern Oil & Refining Co								
Bakersfield	5,000	0	0	0	9,000	0	0	0
Lunday Thagard Co								
South Gate	0	0	0	0	0	0	0	0
Martinez Refining Co LLC								
Martinez	28,000	90,000	0	0	49,500	0	80,500	14,500
Phillips 66 Company								
Rodeo	27,500	0	0	0	0	0	0	0
Wilmington	50,800	0	12,900	32,000	0	0	55,000	0
San Joaquin Refining Co Inc								
Bakersfield	0	0	0	0	3,600	0	1,800	0
Talley Asphalt Products Inc								
Kern	0	0	0	0	0	0	0	0
Tesoro Refining & Marketing Co								
Carson	79,000	17,000	38,000	24,000	0	0	147,000	0
Torrance Refining Co LLC								
Torrance	25,300	0	0	19,800	0	0	108,300	0

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(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
California	1,680,371	0	1,783,900	0	1,033,256	407,600	52,000	5,000	0
Ultramar Inc									
Wilmington	85,000	0	87,000	0	46,000	28,800	0	0	0
Valero Refining Co California									
Benicia	145,000	0	150,000	0	85,500	0	29,500	0	0
Wilmington	6,300	0	6,500	0	5,000	0	0	0	0
Colorado	103,000	0	111,700	0	33,500	0	0	0	0
Suncor Energy (USA) Inc									
Commerce City East	36,000	0	38,700	0	8,500	0	0	0	0
Commerce City West	67,000	0	73,000	0	25,000	0	0	0	0
Delaware	171,000	0	180,000	0	104,600	0	54,500	0	0
Delaware City Refining Co LLC									
Delaware City	171,000	0	180,000	0	104,600	0	54,500	0	0
Hawaii	93,500	0	95,000	0	40,000	0	0	11,000	0
Par Hawaii Refining LLC									
Kapolei	93,500	0	95,000	0	40,000	0	0	11,000	0
Illinois	1,045,214	0	1,102,620	0	491,800	214,420	0	0	0
ExxonMobil Refining & Supply Co									
Joliet	251,800	0	275,000	0	142,100	58,500	0	0	0
Marathon Petroleum Co LP									
Robinson	253,000	0	266,000	0	76,000	31,000	0	0	0
PDV Midwest Refining LLC									
Lemont	184,414	0	194,120	0	77,200	41,220	0	0	0
WRB Refining LP									
Wood River	356,000	0	367,500	0	196,500	83,700	0	0	0
Indiana	469,500	0	475,700	0	290,700	102,000	0	0	0
BP Products North America Inc									
Whiting	435,000	0	440,000	0	276,200	102,000	0	0	0
Countrymark Refining & Logistics LLC									
Mount Vernon	34,500	0	35,700	0	14,500	0	0	0	0
Kansas	408,200	0	418,100	0	163,500	75,000	0	0	0
CHS McPherson Refinery Inc									
McPherson	114,200	0	117,100	0	52,500	27,500	0	0	0
CVR Refining CVL LLC									
Coffeyville	132,000	0	136,000	0	46,000	25,000	0	0	0
HF Sinclair EI Dorado Refining LLC									
EI Dorado	162,000	0	165,000	0	65,000	22,500	0	0	0
Kentucky	300,000	0	316,000	0	134,000	0	0	0	0
Marathon Petroleum Co LP									
Catlettsburg	300,000	0	316,000	0	134,000	0	0	0	0
Louisiana	2,971,022	0	3,117,355	0	1,539,100	565,200	0	0	11,800
Alon Refining Krotz Springs Inc									
Krotz Springs	80,000	0	83,000	0	36,200	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
California	619,000	13,600	232,200	227,400	0	171,800	193,700	56,000
Ultramar Inc								
Wilmington	56,300	0	0	0	0	18,000	0	0
Valero Refining Co California								
Benicia	75,300	0	34,000	0	0	0	37,200	0
Wilmington	0	0	0	0	0	0	0	0
Colorado	30,000	500	0	0	0	21,900	0	0
Suncor Energy (USA) Inc								
Commerce City East	9,000	500	0	0	0	11,000	0	0
Commerce City West	21,000	0	0	0	0	10,900	0	0
Delaware	82,000	4,000	0	24,000	0	43,000	0	0
Delaware City Refining Co LLC								
Delaware City	82,000	4,000	0	24,000	0	43,000	0	0
Hawaii	0	0	2,000	18,000	0	13,500	0	0
Par Hawaii Refining LLC								
Kapolei	0	0	2,000	18,000	0	13,500	0	0
Illinois	324,300	0	0	108,000	0	214,300	35,800	0
ExxonMobil Refining & Supply Co								
Joliet	99,300	0	0	0	0	52,600	0	0
Marathon Petroleum Co LP								
Robinson	54,500	0	0	44,000	0	82,000	0	0
PDV Midwest Refining LLC								
Lemont	69,500	0	0	0	0	0	35,800	0
WRB Refining LP								
Wood River	101,000	0	0	64,000	0	79,700	0	0
Indiana	185,900	200	0	0	0	6,700	67,000	0
BP Products North America Inc								
Whiting	177,000	0	0	0	0	0	67,000	0
Countrymark Refining & Logistics LLC								
Mount Vernon	8,900	200	0	0	0	6,700	0	0
Kansas	104,800	500	0	43,000	0	62,000	23,500	0
CHS McPherson Refinery Inc								
McPherson	24,800	500	0	43,000	0	28,500	0	0
CVR Refining CVL LLC								
Coffeyville	36,000	0	0	0	0	26,000	0	0
HF Sinclair El Dorado Refining LLC								
El Dorado	44,000	0	0	0	0	7,500	23,500	0
Kentucky	109,000	0	0	0	0	24,500	33,500	14,500
Marathon Petroleum Co LP								
Catlettsburg	109,000	0	0	0	0	24,500	33,500	14,500
Louisiana	946,000	3,500	55,000	401,900	0	474,200	96,200	72,000
Alon Refining Krotz Springs Inc								
Krotz Springs	34,000	0	0	0	0	0	13,000	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
California	397,700	215,000	203,800	252,100	81,100	0	563,600	70,200
Ultramar Inc								
Wilmington	32,000	0	0	45,000	0	0	67,000	0
Valero Refining Co California								
Benicia	30,000	43,200	15,400	15,000	5,000	0	39,000	21,700
Wilmington	0	0	0	0	0	0	0	0
Colorado	22,000	0	12,100	23,330	0	0	30,000	0
Suncor Energy (USA) Inc								
Commerce City East	11,000	0	0	0	0	0	0	0
Commerce City West	11,000	0	12,100	23,330	0	0	30,000	0
Delaware	58,800	33,000	16,500	52,000	0	0	0	20,000
Delaware City Refining Co LLC								
Delaware City	58,800	33,000	16,500	52,000	0	0	0	20,000
Hawaii	13,000	0	0	0	0	0	0	0
Par Hawaii Refining LLC								
Kapolei	13,000	0	0	0	0	0	0	0
Illinois	444,400	120,000	66,950	330,060	0	0	0	16,300
ExxonMobil Refining & Supply Co								
Joliet	177,800	0	0	89,100	0	0	0	0
Marathon Petroleum Co LP								
Robinson	71,000	46,000	0	83,500	0	0	0	0
PDV Midwest Refining LLC								
Lemont	111,300	0	13,700	97,160	0	0	0	6,800
WRB Refining LP								
Wood River	84,300	74,000	53,250	60,300	0	0	0	9,500
Indiana	134,200	103,700	51,400	137,800	0	0	192,000	0
BP Products North America Inc								
Whiting	122,700	97,000	51,400	121,500	0	0	192,000	0
Countrymark Refining & Logistics LLC								
Mount Vernon	11,500	6,700	0	16,300	0	0	0	0
Kansas	128,400	49,000	21,000	131,000	27,000	0	50,000	0
CHS McPherson Refinery Inc								
McPherson	42,400	0	0	47,000	0	0	0	0
CVR Refining CVL LLC								
Coffeyville	36,000	22,000	9,000	30,000	27,000	0	0	0
HF Sinclair El Dorado Refining LLC								
El Dorado	50,000	27,000	12,000	54,000	0	0	50,000	0
Kentucky	59,500	0	33,500	81,500	0	0	107,000	0
Marathon Petroleum Co LP								
Catlettsburg	59,500	0	33,500	81,500	0	0	107,000	0
Louisiana	602,700	763,200	208,100	809,700	9,500	13,500	266,700	25,000
Alon Refining Krotz Springs Inc								
Krotz Springs	14,000	18,000	0	0	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Louisiana	2,971,022	0	3,117,355	0	1,539,100	565,200	0	0	11,800
Calcasieu Refining Co Lake Charles	135,500	0	137,000	0	36,000	0	0	0	0
Calumet Cotton Valley Refining LLC Cotton Valley	13,020	0	14,000	0	0	0	0	0	0
Calumet Princeton Refining LLC Princeton	8,300	0	8,655	0	7,000	0	0	0	0
Calumet Shreveport Refining LLC Shreveport	57,000	0	60,000	0	28,000	0	0	0	0
Chalmette Refining LLC Chalmette	190,000	0	197,000	0	169,000	42,000	0	0	0
Citgo Petroleum Corp Lake Charles	455,000	0	479,000	0	230,000	110,000	0	0	0
Excel Paralubes Westlake	0	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baton Rouge	522,500	0	544,600	0	254,000	123,500	0	0	0
Marathon Petroleum Co LP Garyville	597,000	0	628,000	0	299,000	110,000	0	0	0
Phillips 66 Company Westlake	264,000	0	273,000	0	125,000	65,200	0	0	11,800
Placid Refining Co Port Allen	75,000	0	82,500	0	27,000	0	0	0	0
Shell Oil Products US Norco	233,702	0	250,000	0	91,300	28,500	0	0	0
Valero Refining - Meraux LLC Meraux	125,000	0	125,600	0	56,600	0	0	0	0
Valero Refining New Orleans LLC Norco	215,000	0	235,000	0	180,000	86,000	0	0	0
Michigan	140,000	0	152,000	0	90,500	40,000	0	0	0
Marathon Petroleum Co LP Detroit	140,000	0	152,000	0	90,500	40,000	0	0	0
Minnesota	440,000	0	486,000	0	285,000	82,000	0	0	0
Flint Hills Resources LP Saint Paul	335,000	0	375,000	0	234,000	82,000	0	0	0
St Paul Park Refining Co LLC Saint Paul	105,000	0	111,000	0	51,000	0	0	0	0
Mississippi	393,940	0	415,000	0	354,875	104,000	0	0	0
Chevron USA Inc Pascagoula	356,440	0	375,200	0	330,000	104,000	0	0	0
Ergon Refining Inc Vicksburg	26,500	0	27,300	0	18,000	0	0	0	0
Hunt Southland Refining Co Sandersville	11,000	0	12,500	0	6,875	0	0	0	0
Montana	205,000	9,600	213,400	10,000	124,400	36,000	10,000	0	0
Calumet Montana Refining LLC Great Falls	15,000	9,600	17,000	10,000	10,000	0	0	0	0
Cenex Harvest States Coop Laurel	62,500	0	64,000	0	32,200	16,000	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Louisiana	946,000	3,500	55,000	401,900	0	474,200	96,200	72,000
Calcasieu Refining Co Lake Charles	0	0	0	0	0	0	0	0
Calumet Cotton Valley Refining LLC Cotton Valley	0	0	0	0	0	0	0	0
Calumet Princeton Refining LLC Princeton	0	0	0	0	0	0	0	0
Calumet Shreveport Refining LLC Shreveport	0	0	0	0	0	12,000	0	0
Chalmette Refining LLC Chalmette	75,600	0	0	0	0	22,700	30,000	0
Citgo Petroleum Corp Lake Charles	148,000	3,000	0	51,200	0	65,000	53,200	0
Excel Paralubes Westlake	0	0	0	43,000	0	0	0	0
ExxonMobil Refining & Supply Co Baton Rouge	243,000	0	27,000	0	0	80,000	0	0
Marathon Petroleum Co LP Garyville	150,000	0	0	130,000	0	138,000	0	38,000
Phillips 66 Company Westlake	51,600	0	0	0	0	48,000	0	0
Placid Refining Co Port Allen	25,000	500	0	0	0	11,500	0	12,000
Shell Oil Products US Norco	118,800	0	0	44,000	0	40,000	0	0
Valero Refining - Meraux LLC Meraux	0	0	0	48,700	0	32,000	0	22,000
Valero Refining New Orleans LLC Norco	100,000	0	28,000	85,000	0	25,000	0	0
Michigan	44,000	0	0	0	0	21,500	0	0
Marathon Petroleum Co LP Detroit	44,000	0	0	0	0	21,500	0	0
Minnesota	127,000	2,500	67,000	0	0	36,000	36,500	4,500
Flint Hills Resources LP Saint Paul	96,000	0	67,000	0	0	36,000	13,000	0
St Paul Park Refining Co LLC Saint Paul	31,000	2,500	0	0	0	0	23,500	4,500
Mississippi	88,000	0	0	119,000	0	61,600	40,000	0
Chevron USA Inc Pascagoula	88,000	0	0	119,000	0	61,600	40,000	0
Ergon Refining Inc Vicksburg	0	0	0	0	0	0	0	0
Hunt Southland Refining Co Sandersville	0	0	0	0	0	0	0	0
Montana	67,160	990	6,200	0	0	12,500	23,000	0
Calumet Montana Refining LLC Great Falls	3,000	0	0	0	0	0	1,300	0
Cenex Harvest States Coop Laurel	16,500	0	0	0	0	12,500	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Louisiana	602,700	763,200	208,100	809,700	9,500	13,500	266,700	25,000
Calcasieu Refining Co Lake Charles	0	0	0	0	0	0	0	0
Calumet Cotton Valley Refining LLC Cotton Valley	6,500	0	0	0	0	0	0	0
Calumet Princeton Refining LLC Princeton	0	0	0	0	9,500	0	0	0
Calumet Shreveport Refining LLC Shreveport	16,000	0	0	14,000	0	0	21,100	1,200
Chalmette Refining LLC Chalmette	42,000	46,000	0	35,000	0	0	65,600	0
Citgo Petroleum Corp Lake Charles	131,200	85,400	70,100	100,000	0	0	0	23,800
Excel Paralubes Westlake	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co Baton Rouge	79,000	265,300	0	216,200	0	0	0	0
Marathon Petroleum Co LP Garyville	125,000	128,000	85,000	181,500	0	0	106,000	0
Phillips 66 Company Westlake	50,000	63,500	38,000	62,000	0	13,500	50,000	0
Placid Refining Co Port Allen	12,000	20,000	0	25,000	0	0	0	0
Shell Oil Products US Norco	42,000	77,000	0	70,000	0	0	0	0
Valero Refining - Meraux LLC Meraux	40,000	0	15,000	40,000	0	0	0	0
Valero Refining New Orleans LLC Norco	45,000	60,000	0	66,000	0	0	24,000	0
Michigan	35,500	0	8,000	49,500	0	0	44,500	0
Marathon Petroleum Co LP Detroit	35,500	0	8,000	49,500	0	0	44,500	0
Minnesota	74,000	57,000	53,500	95,500	0	0	159,000	0
Flint Hills Resources LP Saint Paul	49,000	57,000	43,500	63,500	0	0	128,000	0
St Paul Park Refining Co LLC Saint Paul	25,000	0	10,000	32,000	0	0	31,000	0
Mississippi	60,800	0	34,000	38,000	0	0	104,000	70,500
Chevron USA Inc Pascagoula	60,800	0	34,000	35,500	0	0	104,000	50,000
Ergon Refining Inc Vicksburg	0	0	0	2,500	0	0	0	20,500
Hunt Southland Refining Co Sandersville	0	0	0	0	0	0	0	0
Montana	45,900	27,800	13,400	47,750	25,000	0	46,900	7,900
Calumet Montana Refining LLC Great Falls	2,750	0	0	7,000	0	0	0	0
Genex Harvest States Coop Laurel	17,000	0	0	0	25,000	0	20,000	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Montana	205,000	9,600	213,400	10,000	124,400	36,000	10,000	0	0
Par Montana LLC									
Billings (Formerly ExxonMobil Refining & Supply Co)	61,500	0	62,900	0	32,300	0	10,000	0	0
Phillips 66 Company									
Billings	66,000	0	69,500	0	49,900	20,000	0	0	0
Nevada	2,000	0	5,000	0	2,750	0	0	0	0
Foreland Refining Corp									
Ely	2,000	0	5,000	0	2,750	0	0	0	0
New Jersey	450,500	0	473,100	0	165,000	0	0	0	0
CPI Operations LLC									
Paulsboro	32,000	0	35,000	0	0	0	0	0	0
Paulsboro Refining Co LLC									
Paulsboro	160,000	0	166,000	0	90,000	0	0	0	0
Phillips 66 Company									
Linden	258,500	0	272,100	0	75,000	0	0	0	0
New Mexico	110,000	0	124,000	0	34,300	0	0	0	0
HF Sinclair Navajo Refining LLC									
Artesia	110,000	0	124,000	0	34,300	0	0	0	0
North Dakota	71,000	0	75,500	0	0	0	0	0	0
Tesoro Refining & Marketing Co									
Mandan	71,000	0	75,500	0	0	0	0	0	0
Ohio	606,600	0	630,000	0	164,500	59,000	0	0	0
Lima Refining Company									
Lima	183,000	0	185,000	0	57,000	23,000	0	0	0
Marathon Petroleum Co LP									
Canton	100,000	0	105,000	0	35,000	0	0	0	0
Ohio Refining Company LLC									
Toledo	150,800	0	160,000	0	72,500	36,000	0	0	0
(Formerly BP-Husky Refining LLC)									
Toledo Refining Co LLC									
Toledo	172,800	0	180,000	0	0	0	0	0	0
Oklahoma	547,148	0	569,520	0	214,042	38,385	0	0	0
CVR Refining WYN LLC									
Wynnewood	74,500	0	78,000	0	34,000	0	0	0	0
HF Sinclair Tulsa Refining LLC									
Tulsa East	70,300	0	75,500	0	27,000	0	0	0	0
Tulsa West	85,000	0	91,020	0	32,000	11,000	0	0	0
Phillips 66 Company									
Ponca City	231,348	0	235,000	0	89,042	27,385	0	0	0
Valero Refining Co Oklahoma									
Ardmore	86,000	0	90,000	0	32,000	0	0	0	0
Pennsylvania	266,000	0	289,800	0	113,000	0	0	0	0
American Refining Group Inc									
Bradford	11,000	0	11,800	0	0	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Montana	67,160	990	6,200	0	0	12,500	23,000	0
Par Montana LLC								
Billings	23,660	0	6,200	0	0	0	12,500	0
(Formerly ExxonMobil Refining & Supply Co)								
Phillips 66 Company								
Billings	24,000	990	0	0	0	0	9,200	0
Nevada	0	0	0	0	0	0	0	0
Foreland Refining Corp								
Ely	0	0	0	0	0	0	0	0
New Jersey	145,000	0	0	0	0	69,000	0	22,000
CPI Operations LLC								
Paulsboro	0	0	0	0	0	0	0	0
Paulsboro Refining Co LLC								
Paulsboro	0	0	0	0	0	32,000	0	0
Phillips 66 Company								
Linden	145,000	0	0	0	0	37,000	0	22,000
New Mexico	30,000	0	0	18,000	0	24,000	0	18,000
HF Sinclair Navajo Refining LLC								
Artesia	30,000	0	0	18,000	0	24,000	0	18,000
North Dakota	28,000	3,600	0	0	0	0	12,500	0
Tesoro Refining & Marketing Co								
Mandan	28,000	3,600	0	0	0	0	12,500	0
Ohio	206,300	0	52,000	58,500	0	65,500	106,800	0
Lima Refining Company								
Lima	45,300	0	0	26,000	0	0	55,000	0
Marathon Petroleum Co LP								
Canton	24,000	0	0	0	0	23,500	0	0
Ohio Refining Company LLC								
Toledo	55,000	0	0	32,500	0	42,000	0	0
(Formerly BP-Husky Refining LLC)								
Toledo Refining Co LLC								
Toledo	82,000	0	52,000	0	0	0	51,800	0
Oklahoma	156,912	2,000	14,000	0	0	64,200	49,258	0
CVR Refining WYN LLC								
Wynnewood	22,000	0	0	0	0	18,700	0	0
HF Sinclair Tulsa Refining LLC								
Tulsa East	28,000	2,000	0	0	0	25,000	0	0
Tulsa West	0	0	0	0	0	0	0	0
Phillips 66 Company								
Ponca City	76,912	0	0	0	0	0	49,258	0
Valero Refining Co Oklahoma								
Ardmore	30,000	0	14,000	0	0	20,500	0	0
Pennsylvania	78,000	1,000	23,000	0	0	50,000	16,200	0
American Refining Group Inc								
Bradford	0	0	0	0	0	0	2,200	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Montana	45,900	27,800	13,400	47,750	25,000	0	46,900	7,900
Par Montana LLC								
Billings (Formerly ExxonMobil Refining & Supply Co)	13,900	20,500	7,600	11,000	0	0	0	7,900
Phillips 66 Company Billings	12,250	7,300	5,800	29,750	0	0	26,900	0
Nevada	0	0	0	0	0	0	0	0
Foreland Refining Corp Ely	0	0	0	0	0	0	0	0
New Jersey	97,500	0	29,100	154,000	17,500	0	0	0
CPI Operations LLC Paulsboro	0	0	0	0	0	0	0	0
Paulsboro Refining Co LLC Paulsboro	32,000	0	29,100	46,000	0	0	0	0
Phillips 66 Company Linden	65,500	0	0	108,000	17,500	0	0	0
New Mexico	42,000	0	15,000	43,000	0	0	18,000	0
HF Sinclair Navajo Refining LLC Artesia	42,000	0	15,000	43,000	0	0	18,000	0
North Dakota	29,600	0	7,000	25,500	0	0	0	0
Tesoro Refining & Marketing Co Mandan	29,600	0	7,000	25,500	0	0	0	0
Ohio	187,400	107,000	69,500	84,000	0	0	75,500	0
Lima Refining Company Lima	63,000	35,000	24,000	36,000	0	0	0	0
Marathon Petroleum Co LP Canton	36,500	0	13,500	25,500	0	0	22,500	0
Ohio Refining Company LLC Toledo	42,000	0	0	22,500	0	0	53,000	0
(Formerly BP-Husky Refining LLC)								
Toledo Refining Co LLC Toledo	45,900	72,000	32,000	0	0	0	0	0
Oklahoma	158,411	119,487	18,678	139,600	39,161	0	58,338	38,100
CVR Refining WYN LLC Wynnewood	26,900	15,000	0	25,600	0	0	0	0
HF Sinclair Tulsa Refining LLC Tulsa East	25,000	29,000	0	45,000	0	0	0	0
Tulsa West	28,000	0	0	0	0	0	0	21,600
Phillips 66 Company Ponca City	51,511	58,987	18,678	34,000	39,161	0	23,888	16,500
Valero Refining Co Oklahoma Ardmore	27,000	16,500	0	35,000	0	0	34,450	0
Pennsylvania	109,900	39,000	28,300	75,100	0	0	0	0
American Refining Group Inc Bradford	3,900	0	0	4,800	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Pennsylvania	266,000	0	289,800	0	113,000	0	0	0	0
Monroe Energy LLC									
Trainer	190,000	0	208,000	0	73,000	0	0	0	0
United Refining Co									
Warren	65,000	0	70,000	0	40,000	0	0	0	0
Tennessee	180,000	0	205,000	0	0	0	0	0	0
Valero Ref Company Tennessee LLC									
Memphis	180,000	0	205,000	0	0	0	0	0	0
Texas	6,279,469	0	6,669,400	0	2,664,200	954,380	42,000	0	0
Alon USA Energy Inc									
Big Spring	73,000	0	74,000	0	28,000	0	0	0	0
Buckeye Texas Processing LLC									
Corpus Christi	60,000	0	65,000	0	0	0	0	0	0
Citgo Refining & Chemical Inc									
Corpus Christi	165,000	0	175,500	0	85,300	45,100	0	0	0
Deer Park Refining LP									
Deer Park	312,500	0	340,000	0	180,000	96,000	0	0	0
Delek Refining LTD									
Tyler	74,000	0	77,500	0	28,000	7,500	0	0	0
Diamond Shamrock Refining Co LP									
Sunray	195,000	0	204,000	0	50,000	0	0	0	0
Three Rivers	89,000	0	100,000	0	33,500	0	0	0	0
Enterprise Prod Texas Operating LLC									
Mont Belvieu	0	0	0	0	0	0	0	0	0
Equistar Chemicals LP									
Channelview	0	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co									
Baytown	564,440	0	588,000	0	297,000	54,000	42,000	0	0
Beaumont	609,024	0	634,400	0	180,000	46,500	0	0	0
Flint Hills Resources LP									
Corpus Christi East	74,500	0	75,000	0	0	0	0	0	0
Corpus Christi West	268,500	0	275,000	0	87,500	0	0	0	0
Hartree Refining LLC									
Channelview	45,000	0	50,000	0	0	0	0	0	0
Houston Refining LP									
Houston	263,776	0	289,000	0	196,500	100,500	0	0	0
Kinder Morgan Crude & Condensate									
Galena Park	105,000	0	121,000	0	0	0	0	0	0
Lazarus Energy LLC									
Nixon	14,000	0	15,000	0	0	0	0	0	0
Magellan Processing LP									
Corpus Christi	42,500	0	50,000	0	0	0	0	0	0
Marathon Petroleum Co LP									
Galveston Bay	631,000	0	665,000	0	259,500	32,500	0	0	0
Motiva Enterprises LLC									
Port Arthur	626,000	0	659,700	0	331,800	178,000	0	0	0
Pasadena Refining Systems Inc									
Pasadena	112,229	0	115,700	0	38,000	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Pennsylvania	78,000	1,000	23,000	0	0	50,000	16,200	0
Monroe Energy LLC								
Trainer	53,000	0	23,000	0	0	50,000	0	0
United Refining Co								
Warren	25,000	1,000	0	0	0	0	14,000	0
Tennessee	70,000	0	26,500	0	0	36,000	0	0
Valero Ref Company Tennessee LLC								
Memphis	70,000	0	26,500	0	0	36,000	0	0
Texas	1,751,390	13,000	255,100	431,800	84,500	1,002,976	103,280	167,500
Alon USA Energy Inc								
Big Spring	23,500	0	0	0	0	21,500	0	10,000
Buckeye Texas Processing LLC								
Corpus Christi	0	0	0	0	0	0	0	0
Citgo Refining & Chemical Inc								
Corpus Christi	70,700	0	0	0	0	51,500	0	0
Deer Park Refining LP								
Deer Park	75,100	5,000	0	60,000	0	44,000	24,500	0
Delek Refining LTD								
Tyler	20,250	0	0	0	0	17,500	0	0
Diamond Shamrock Refining Co LP								
Sunray	56,000	0	0	27,000	0	29,000	18,000	13,500
Three Rivers	23,840	0	0	28,000	0	23,500	10,000	10,500
Enterprise Prod Texas Operating LLC								
Mont Belvieu	0	0	0	0	0	0	0	0
Equistar Chemicals LP								
Channelview	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co								
Baytown	220,000	8,000	30,600	0	0	126,500	0	47,000
Beaumont	115,000	0	70,000	0	0	146,000	0	0
Flint Hills Resources LP								
Corpus Christi East	49,100	0	0	0	0	0	0	0
Corpus Christi West	58,100	0	0	15,500	0	0	0	0
Hartree Refining LLC								
Channelview	0	0	0	0	0	0	0	0
Houston Refining LP								
Houston	110,000	0	0	0	0	0	0	0
Kinder Morgan Crude & Condensate								
Galena Park	0	0	0	0	0	0	0	0
Lazarus Energy LLC								
Nixon	0	0	0	0	0	0	0	0
Magellan Processing LP								
Corpus Christi	0	0	0	0	0	0	0	0
Marathon Petroleum Co LP								
Galveston Bay	219,500	0	79,500	0	84,500	146,500	0	19,500
Motiva Enterprises LLC								
Port Arthur	92,600	0	0	115,500	0	134,500	0	0
Pasadena Refining Systems Inc								
Pasadena	0	0	0	0	0	23,000	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Pennsylvania	109,900	39,000	28,300	75,100	0	0	0	0
Monroe Energy LLC								
Trainer	80,000	34,000	23,300	53,300	0	0	0	0
United Refining Co								
Warren	26,000	5,000	5,000	17,000	0	0	0	0
Tennessee	55,000	39,000	0	38,000	0	0	0	0
Valero Ref Company Tennessee LLC								
Memphis	55,000	39,000	0	38,000	0	0	0	0
Texas	1,472,400	1,103,807	670,200	1,494,467	16,000	75,000	994,900	268,100
Alon USA Energy Inc								
Big Spring	25,500	0	5,000	24,000	0	0	6,300	0
Buckeye Texas Processing LLC								
Corpus Christi	0	0	0	0	0	0	0	0
Citgo Refining & Chemical Inc								
Corpus Christi	52,800	47,080	0	102,267	0	0	70,900	0
Deer Park Refining LP								
Deer Park	80,000	46,600	40,000	50,000	0	0	49,000	63,000
Delek Refining LTD								
Tyler	28,000	13,000	0	36,000	0	0	0	0
Diamond Shamrock Refining Co LP								
Sunray	44,400	39,600	0	48,000	0	0	0	0
Three Rivers	35,000	0	0	28,000	0	0	20,000	0
Enterprise Prod Texas Operating LLC								
Mont Belvieu	0	0	0	0	0	0	0	65,000
Equistar Chemicals LP								
Channelview	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co								
Baytown	158,000	212,000	133,800	159,300	0	0	117,000	50,300
Beaumont	166,300	69,700	121,000	97,000	0	0	0	23,300
Flint Hills Resources LP								
Corpus Christi East	33,000	0	0	0	0	0	0	0
Corpus Christi West	60,000	72,000	32,000	91,000	0	0	0	0
Hartree Refining LLC								
Channelview	0	0	0	0	0	0	0	0
Houston Refining LP								
Houston	61,000	89,000	41,000	92,600	0	0	117,000	0
Kinder Morgan Crude & Condensate								
Galena Park	0	0	0	0	0	0	0	0
Lazarus Energy LLC								
Nixon	0	0	0	0	0	0	0	0
Magellan Processing LP								
Corpus Christi	0	0	0	0	0	0	0	0
Marathon Petroleum Co LP								
Galveston Bay	129,000	57,000	76,000	60,000	0	0	108,500	0
Motiva Enterprises LLC								
Port Arthur	184,500	55,000	79,000	182,800	0	0	65,000	21,000
Pasadena Refining Systems Inc								
Pasadena	23,000	0	0	0	16,000	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	Other/Gas Oil
Texas	6,279,469	0	6,669,400	0	2,664,200	954,380	42,000	0	0
Petromax Refining Co LLC									
Houston	25,000	0	27,500	0	0	0	0	0	0
Phillips 66 Company									
Sweeny	265,000	0	286,000	0	132,100	78,700	0	0	0
Premcor Refining Group Inc									
Port Arthur	360,000	0	424,000	0	220,000	154,700	0	0	0
Targa Downstream LLC									
Mont Belvieu	0	0	0	0	0	0	0	0	0
Texas International Terminals									
Galveston	45,000	0	50,000	0	0	0	0	0	0
The San Antonio Refinery LLC									
San Antonio	20,000	0	21,000	0	0	0	0	0	0
TotalEnergies Petrochem & Refg USA									
Port Arthur	238,000	0	245,000	0	117,000	60,000	0	0	0
Trecora Hydrocarbons LLC									
Silsbee	0	0	0	0	0	0	0	0	0
Valero Refining Co Texas LP									
Corpus Christi	290,000	0	301,000	0	91,000	19,000	0	0	0
Houston	205,000	0	218,700	0	38,000	0	0	0	0
Texas City	225,000	0	227,400	0	133,500	53,500	0	0	0
Western Refining Company LP									
El Paso	133,000	0	140,000	0	55,500	0	0	0	0
WRB Refining LP									
Borger	149,000	0	155,000	0	82,000	28,380	0	0	0
Utah	208,714	0	220,200	0	34,900	10,000	0	0	0
Big West Oil Co									
North Salt Lake	31,664	0	33,000	0	0	0	0	0	0
Chevron USA Inc									
Salt Lake City	54,720	0	57,600	0	27,900	10,000	0	0	0
HF Sinclair Woods Cross Refining LLC									
Woods Cross	39,330	0	41,400	0	0	0	0	0	0
Silver Eagle Refining									
Woods Cross	15,000	0	15,700	0	7,000	0	0	0	0
Tesoro Refining & Marketing Co									
Salt Lake City	68,000	0	72,500	0	0	0	0	0	0
Washington	648,200	0	674,500	0	320,100	86,800	0	0	0
BP Products North America Inc									
Ferndale	238,500	0	251,000	0	139,000	61,500	0	0	0
HF Sinclair Puget Sound Refg LLC									
Anacortes	145,000	0	149,000	0	65,800	25,300	0	0	0
Phillips 66 Company									
Ferndale	105,000	0	110,500	0	48,100	0	0	0	0
Tesoro Refining & Marketing Co									
Anacortes	119,000	0	122,000	0	48,000	0	0	0	0
US Oil & Refining Co									
Tacoma	40,700	0	42,000	0	19,200	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
Texas	1,751,390	13,000	255,100	431,800	84,500	1,002,976	103,280	167,500
Petromax Refining Co LLC								
Houston	0	0	0	0	0	0	0	0
Phillips 66 Company								
Sweeny	111,000	0	0	0	0	46,176	0	0
Premcor Refining Group Inc								
Port Arthur	75,000	0	0	134,800	0	58,000	0	0
Targa Downstream LLC								
Mont Belvieu	0	0	0	0	0	0	0	0
Texas International Terminals								
Galveston	0	0	0	0	0	0	0	0
The San Antonio Refinery LLC								
San Antonio	0	0	0	0	0	0	6,000	0
TotalEnergies Petrochem & Refg USA								
Port Arthur	80,000	0	0	0	0	43,000	0	15,500
Trecora Hydrocarbons LLC								
Silsbee	0	0	0	0	0	5,200	0	0
Valero Refining Co Texas LP								
Corpus Christi	95,500	0	0	51,000	0	39,000	11,000	0
Houston	75,200	0	75,000	0	0	0	0	18,000
Texas City	86,000	0	0	0	0	18,100	0	33,500
Western Refining Company LP								
El Paso	35,000	0	0	0	0	30,000	0	0
WRB Refining LP								
Borger	60,000	0	0	0	0	0	33,780	0
Utah	74,700	0	0	15,000	0	0	37,750	6,000
Big West Oil Co								
North Salt Lake	12,500	0	0	0	0	0	8,750	0
Chevron USA Inc								
Salt Lake City	15,500	0	0	0	0	0	9,100	0
HF Sinclair Woods Cross Refining LLC								
Woods Cross	18,200	0	0	15,000	0	0	8,400	6,000
Silver Eagle Refining								
Woods Cross	0	0	0	0	0	0	0	0
Tesoro Refining & Marketing Co								
Salt Lake City	28,500	0	0	0	0	0	11,500	0
Washington	147,400	3,000	0	65,000	0	113,400	28,500	24,000
BP Products North America Inc								
Ferndale	0	0	0	65,000	0	65,400	0	0
HF Sinclair Puget Sound Refg LLC								
Anacortes	57,900	0	0	0	0	0	21,700	0
Phillips 66 Company								
Ferndale	38,000	0	0	0	0	18,500	0	0
Tesoro Refining & Marketing Co								
Anacortes	51,500	3,000	0	0	0	29,500	0	24,000
US Oil & Refining Co								
Tacoma	0	0	0	0	0	0	6,800	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
Texas	1,472,400	1,103,807	670,200	1,494,467	16,000	75,000	994,900	268,100
Petromax Refining Co LLC								
Houston	0	0	0	0	0	0	0	0
Phillips 66 Company								
Sweeny	73,400	68,700	0	126,300	0	0	110,200	0
Premcor Refining Group Inc								
Port Arthur	51,500	90,000	33,000	104,600	0	0	60,000	0
Targa Downstream LLC								
Mont Belvieu	0	0	0	0	0	0	0	35,000
Texas International Terminals								
Galveston	0	0	0	0	0	0	0	0
The San Antonio Refinery LLC								
San Antonio	7,000	0	0	8,000	0	0	0	0
TotalEnergies Petrochem & Refg USA								
Port Arthur	57,500	51,600	31,000	80,000	0	0	54,400	0
Trecora Hydrocarbons LLC								
Silsbee	11,000	0	0	0	0	0	0	4,000
Valero Refining Co Texas LP								
Corpus Christi	57,000	54,500	10,000	72,000	0	75,000	25,000	0
Houston	9,000	38,027	15,900	0	0	0	0	0
Texas City	25,000	61,500	28,000	55,000	0	0	110,000	6,500
Western Refining Company LP								
El Paso	33,000	38,500	9,500	49,000	0	0	0	0
WRB Refining LP								
Borger	67,500	0	15,000	28,600	0	0	81,600	0
Utah	46,400	13,000	2,900	51,800	31,500	0	0	7,200
Big West Oil Co								
North Salt Lake	11,800	0	0	13,000	0	0	0	0
Chevron USA Inc								
Salt Lake City	9,100	0	0	13,300	20,700	0	0	7,200
HF Sinclair Woods Cross Refining LLC								
Woods Cross	12,500	0	2,900	0	10,800	0	0	0
Silver Eagle Refining								
Woods Cross	1,000	0	0	3,000	0	0	0	0
Tesoro Refining & Marketing Co								
Salt Lake City	12,000	13,000	0	22,500	0	0	0	0
Washington	202,900	104,500	45,000	174,200	0	0	0	0
BP Products North America Inc								
Ferndale	100,500	0	20,000	59,400	0	0	0	0
HF Sinclair Puget Sound Refg LLC								
Anacortes	21,700	43,900	25,000	39,900	0	0	0	0
Phillips 66 Company								
Ferndale	19,400	34,100	0	37,800	0	0	0	0
Tesoro Refining & Marketing Co								
Anacortes	50,500	26,500	0	28,500	0	0	0	0
US Oil & Refining Co								
Tacoma	10,800	0	0	8,600	0	0	0	0

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity				
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	Thermal Cracking			Other/Gas Oil
	Operating	Idle	Operating	Idle		Delayed Coking	Fluid Coking	Visbreaking	
West Virginia	22,300	0	23,000	0	8,600	0	0	0	0
Ergon West Virginia Inc Newell	22,300	0	23,000	0	8,600	0	0	0	0
Wisconsin	38,000	0	50,000	0	29,100	0	0	0	0
Superior Refining Company LLC Superior	38,000	0	50,000	0	29,100	0	0	0	0
Wyoming	125,850	0	145,400	0	51,000	20,000	0	0	0
HF Sinclair Casper Refining Company Evansville	29,850	0	30,000	0	0	0	0	0	0
HF Sinclair Wyoming Refining Co Sinclair	75,000	0	92,000	0	51,000	20,000	0	0	0
Silver Eagle Refining Evanston	3,000	0	3,400	0	0	0	0	0	0
Wyoming Refining Co Newcastle	18,000	0	20,000	0	0	0	0	0	0
U.S. Total	18,374,628	9,600	19,442,595	10,000	8,616,573	2,833,285	158,500	16,000	11,800

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Catalytic Cracking		Catalytic Hydrocracking			Catalytic Reforming		Fuels Solvent Deasphalting
	Fresh	Recycled	Distillate	Gas Oil	Residual	Low Pressure	High Pressure	
West Virginia	0	0	0	0	0	4,700	0	0
Ergon West Virginia Inc Newell	0	0	0	0	0	4,700	0	0
Wisconsin	11,323	0	0	0	0	9,300	0	0
Superior Refining Company LLC Superior	11,323	0	0	0	0	9,300	0	0
Wyoming	40,000	500	16,000	0	0	5,000	20,400	0
HF Sinclair Casper Refining Company Evansville	10,500	500	0	0	0	5,000	0	0
HF Sinclair Wyoming Refining Co Sinclair	22,000	0	16,000	0	0	0	13,000	0
Silver Eagle Refining Evanston	0	0	0	0	0	0	2,900	0
Wyoming Refining Co Newcastle	7,500	0	0	0	0	0	4,500	0
U.S. Total	5,487,185	48,890	749,000	1,566,600	84,500	2,655,876	945,888	384,500

Table 3. Capacity of Operable Petroleum Refineries by State as of January 1, 2024
(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Downstream Charge Capacity							
	Desulfurization (incl. Catalytic Hydrotreating)							
	Naphtha/ Reformer Feed	Gasoline	Kerosene/ Jet Fuel	Diesel Fuel	Other Distillate	Residual	Heavy Gas Oil	Other
West Virginia	7,700	0	0	9,500	0	0	6,900	0
Ergon West Virginia Inc Newell	7,700	0	0	9,500	0	0	6,900	0
Wisconsin	12,500	12,500	8,000	7,500	0	0	0	0
Superior Refining Company LLC Superior	12,500	12,500	8,000	7,500	0	0	0	0
Wyoming	38,100	6,500	14,000	35,800	0	0	20,000	0
HF Sinclair Casper Refining Company Evansville	8,200	6,500	0	11,200	0	0	0	0
HF Sinclair Wyoming Refining Co Sinclair	21,500	0	14,000	18,500	0	0	20,000	0
Silver Eagle Refining Evanston	3,900	0	0	0	0	0	0	0
Wyoming Refining Co Newcastle	4,500	0	0	6,100	0	0	0	0
U.S. Total	4,615,411	2,922,244	1,651,428	4,444,207	275,261	88,500	2,768,838	537,300

Note: Refer to Table 5 for corporate ownership information. Some names of previously independent companies have been preserved by acquiring companies.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Directory of Operable Petroleum Refineries on Tables 3 and 4

Refiner	State(s)	Refiner	State(s)
Alon Refining Krotz Springs Inc.....	LA	Lazarus Energy LLC.....	TX
Alon USA Energy Inc.....	TX	Lima Refining Company.....	OH
American Refining Group Inc.....	PA	Lion Oil Co.....	AR
Big West Oil Co.....	UT	Magellan Processing LP.....	TX
BP Products North America Inc.....	IN, WA	Lunday Thagard Co.....	CA
Buckeye Texas Processing LLC.....	TX	Marathon Petroleum Co LP.....	IL, KY, LA, MI, OH, TX
Calcasieu Refining Co.....	LA	PDV Midwest Refining LLC.....	IL
Calumet Cotton Valley Refining LLC.....	LA	Par Hawaii Refining LLC.....	HI
Calumet Montana Refining LLC.....	MT	Par Montana LLC.....	MT
Calumet Princeton Refining LLC.....	LA	Pasadena Refining Systems Inc.....	TX
Calumet Shreveport Refining LLC.....	LA	Paulsboro Refining Co LLC.....	NJ
Cenex Harvest States Coop.....	MT	Petro Star Inc.....	AK
Chalmette Refining LLC.....	LA	Petromax Refining Co LLC.....	TX
Chevron USA Inc.....	CA, MS, UT	Phillips 66 Company.....	CA, LA, MT, NJ, OK, TX, WA
CHS McPherson Refinery Inc.....	KS	Martinez Refining Co LLC.....	CA
Citgo Petroleum Corp.....	LA	Placid Refining Co.....	LA
Citgo Refining & Chemical Inc.....	TX	Premcor Refining Group Inc.....	TX
ConocoPhillips Alaska Inc.....	AK	San Joaquin Refining Co Inc.....	CA
Countrymark Refining & Logistics LLC.....	IN	Shell Oil Products US.....	LA
CPI Operations LLC.....	NJ	Monroe Energy LLC.....	PA
Cross Oil Refining & Marketing Inc.....	AR	Silver Eagle Refining.....	UT, WY
CVR Refining CVL LLC.....	KS	Motiva Enterprises LLC.....	TX
CVR Refining WYN LLC.....	OK	Ohio Refining Company LLC.....	OH
Deer Park Refining LP.....	TX	St Paul Park Refining Co LLC.....	MN
Delaware City Refining Co LLC.....	DE	Suncor Energy (USA) Inc.....	CO
Delek Refining LTD.....	TX	Superior Refining Company LLC.....	WI
Diamond Shamrock Refining Co LP.....	TX	Talley Asphalt Products Inc.....	CA
Enterprise Prod Texas Operating LLC.....	TX	Targa Downstream LLC.....	TX
Equistar Chemicals LP.....	TX	Tesoro Alaska Company LLC.....	AK
Ergon Refining Inc.....	MS	Tesoro Refining & Marketing Co.....	CA, ND, UT, WA
Ergon West Virginia Inc.....	WV	Texas International Terminals.....	TX
Excel Paralubes.....	LA	The San Antonio Refinery LLC.....	TX
ExxonMobil Refining & Supply Co.....	IL, LA, TX	Toledo Refining Co LLC.....	OH
Flint Hills Resources LP.....	MN, TX	Torrance Refining Co LLC.....	CA
Foreland Refining Corp.....	NV	TotalEnergies Petrochem & Refg USA.....	TX
Goodway Refining LLC.....	AL	Trecora Hydrocarbons LLC.....	TX
Hartree Refining LLC.....	TX	Valero Refining Co Texas LP.....	TX
HF Sinclair Casper Refining Company.....	WY	US Oil & Refining Co.....	WA
HF Sinclair El Dorado Refining LLC.....	KS	Ultramar Inc.....	CA
HF Sinclair Navajo Refining LLC.....	NM	United Refining Co.....	PA
HF Sinclair Puget Sound Refg LLC.....	WA	Valero Ref Company Tennessee LLC.....	TN
HF Sinclair Tulsa Refining LLC.....	OK	Valero Refining - Meraux LLC.....	LA
HF Sinclair Woods Cross Refining LLC.....	UT	Valero Refining Co California.....	CA
HF Sinclair Wyoming Refining Co.....	WY	Valero Refining Co Oklahoma.....	OK
Hilcorp North Slope LLC.....	AK	Valero Refining New Orleans LLC.....	LA
Houston Refining LP.....	TX	Vertex Refining Alabama LLC.....	AL
Hunt Refining Co.....	AL	WRB Refining LP.....	IL, TX
Hunt Southland Refining Co.....	MS	Western Refining Company LP.....	TX
Kern Oil & Refining Co.....	CA	Wyoming Refining Co.....	WY
Kinder Morgan Crude & Condensate.....	TX		

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Alabama	0	0	26,000	1,150	8,500	0	0	8,000	45	233
Hunt Refining Co										
Tuscaloosa	0	0	26,000	0	8,500	0	0	8,000	45	200
Vertex Refining Alabama LLC										
Saraland	0	0	0	1,150	0	0	0	0	0	33
Alaska	0	0	12,500	0	5,000	0	0	0	13	25
Petro Star Inc										
North Pole	0	0	3,000	0	0	0	0	0	0	0
Tesoro Alaska Company LLC										
Kenai	0	0	9,500	0	5,000	0	0	0	13	25
Arkansas	5,000	0	21,300	0	8,000	0	6,000	0	13	90
Cross Oil Refining & Marketing Inc										
Smackover	0	0	800	0	0	0	6,000	0	3	0
Lion Oil Co										
El Dorado	5,000	0	20,500	0	8,000	0	0	0	10	90
California	193,362	1,500	25,950	49,200	131,600	0	39,800	128,920	971	4,728
Chevron USA Inc										
El Segundo	33,300	0	0	10,500	22,300	0	0	30,000	74	628
Richmond	32,662	0	0	7,200	46,000	0	34,000	0	330	1,008
Kern Oil & Refining Co										
Bakersfield	0	0	0	0	0	0	0	0	0	11
Lunday Thagard Co										
South Gate	0	0	3,750	0	0	0	0	0	0	0
Martinez Refining Co LLC										
Martinez	12,800	0	0	0	15,000	0	0	9,000	179	413

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2024

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State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Phillips 66 Company										
Rodeo	0	0	0	3,800	10,000	0	0	14,500	22	560
Wilmington	16,000	0	0	7,000	12,800	0	0	16,800	105	370
San Joaquin Refining Co Inc										
Bakersfield	0	1,500	8,000	0	0	0	5,800	0	4	6
Talley Asphalt Products Inc										
Kern	0	0	1,700	0	0	0	0	0	0	0
Tesoro Refining & Marketing Co										
Carson	29,500	0	0	16,500	25,500	0	0	22,640	122	749
Torrance Refining Co LLC										
Torrance	30,000	0	0	0	0	0	0	19,180	0	400
Ultramar Inc										
Wilmington	22,000	0	0	0	0	0	0	10,000	0	280
Valero Refining Co California										
Benicia	17,100	0	9,000	4,200	0	0	0	6,800	135	303
Wilmington	0	0	3,500	0	0	0	0	0	0	0
Colorado	0	0	13,200	0	0	0	0	0	22	116
Suncor Energy (USA) Inc										
Commerce City East	0	0	0	0	0	0	0	0	0	2
Commerce City West	0	0	13,200	0	0	0	0	0	22	114
Delaware	12,500	5,191	0	6,000	0	0	0	13,620	65	596
Delaware City Refining Co LLC										
Delaware City	12,500	5,191	0	6,000	0	0	0	13,620	65	596
Hawaii	0	0	0	0	0	0	0	0	18	38
Par Hawaii Refining LLC										
Kapolei	0	0	0	0	0	0	0	0	18	38

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Illinois	97,250	17,200	45,100	0	16,000	0	0	74,690	202	2,370
ExxonMobil Refining & Supply Co										
Joliet	32,000	0	17,100	0	0	0	0	26,000	0	683
Marathon Petroleum Co LP										
Robinson	19,000	3,300	0	0	16,000	0	0	7,890	0	192
PDV Midwest Refining LLC										
Lemont	24,450	9,400	0	0	0	0	0	12,900	12	487
WRB Refining LP										
Wood River	21,800	4,500	28,000	0	0	0	0	27,900	190	1,008
Indiana	34,400	16,800	33,200	0	31,750	0	0	30,000	0	1,913
BP Products North America Inc										
Whiting	32,000	16,800	29,500	0	27,900	0	0	30,000	0	1,904
Countrymark Refining & Logistics LLC										
Mount Vernon	2,400	0	3,700	0	3,850	0	0	0	0	9
Kansas	34,500	0	4,000	4,000	27,000	0	0	23,260	156	795
CHS McPherson Refinery Inc										
McPherson	10,500	0	0	2,500	12,000	0	0	7,560	78	287
CVR Refining CVL LLC										
Coffeyville	10,000	0	0	0	0	0	0	8,700	22	193
HF Sinclair El Dorado Refining LLC										
El Dorado	14,000	0	4,000	1,500	15,000	0	0	7,000	56	315
Kentucky	24,000	2,500	35,400	0	20,000	0	0	0	0	438
Marathon Petroleum Co LP										
Catlettsburg	24,000	2,500	35,400	0	20,000	0	0	0	0	438
Louisiana	225,700	34,400	88,000	23,000	92,720	0	66,000	164,436	118	5,979

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Alon Refining Krotz Springs Inc										
Krotz Springs	6,000	0	0	0	6,220	0	0	0	0	0
Calumet Cotton Valley Refining LLC										
Cotton Valley	0	0	0	0	500	0	0	0	2	0
Calumet Princeton Refining LLC										
Princeton	0	0	2,000	0	0	0	7,000	0	4	3
Calumet Shreveport Refining LLC										
Shreveport	0	0	6,500	0	0	0	12,500	0	12	40
Chalmette Refining LLC										
Chalmette	16,800	10,500	0	0	0	0	0	13,000	0	920
Citgo Petroleum Corp										
Lake Charles	28,100	20,900	0	0	28,000	0	0	32,820	0	717
Excel Paralubes										
Westlake	0	0	0	0	0	0	30,000	0	0	185
ExxonMobil Refining & Supply Co										
Baton Rouge	43,200	0	40,000	0	0	0	16,500	31,525	0	944
Marathon Petroleum Co LP										
Garyville	49,000	0	33,000	23,000	33,000	0	0	33,275	0	1,402
Phillips 66 Company										
Westlake	9,000	0	6,500	0	25,000	0	0	22,500	0	440
Placid Refining Co										
Port Allen	7,500	0	0	0	0	0	0	0	0	55
Shell Oil Products US										
Norco	18,100	0	0	0	0	0	0	7,316	0	209
Valero Refining - Meraux LLC										
Meraux	0	0	0	0	0	0	0	0	0	224
Valero Refining New Orleans LLC										
Norco	48,000	3,000	0	0	0	0	0	24,000	100	840
Michigan	8,500	0	32,000	0	0	0	0	12,850	0	435

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Marathon Petroleum Co LP										
Detroit	8,500	0	32,000	0	0	0	0	12,850	0	435
Minnesota	21,000	0	64,500	0	33,500	0	0	28,400	209	1,339
Flint Hills Resources LP										
Saint Paul	14,000	0	45,000	0	18,000	0	0	28,400	199	1,229
St Paul Park Refining Co LLC										
Saint Paul	7,000	0	19,500	0	15,500	0	0	0	10	110
Mississippi	22,000	15,600	16,125	0	0	0	48,000	35,500	242	1,264
Chevron USA Inc										
Pascagoula	22,000	15,600	0	0	0	0	25,000	35,500	229	1,264
Ergon Refining Inc										
Vicksburg	0	0	10,000	0	0	0	23,000	0	13	0
Hunt Southland Refining Co										
Sandersville	0	0	6,125	0	0	0	0	0	0	0
Montana	17,350	0	39,000	5,250	1,500	0	0	15,600	134	243
Calumet Montana Refining LLC										
Great Falls	750	0	4,700	0	1,500	0	0	0	5	0
Cenex Harvest States Coop										
Laurel	4,000	0	19,800	1,250	0	0	0	4,800	70	243
Par Montana LLC										
Billings	5,100	0	14,500	0	0	0	0	4,000	23	0
(Formerly ExxonMobil Refining & Supply Co)										
Phillips 66 Company										
Billings	7,500	0	0	4,000	0	0	0	6,800	36	0
Nevada	0	0	1,600	0	0	0	0	0	0	0

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
Foreland Refining Corp										
Ely	0	0	1,600	0	0	0	0	0	0	0
New Jersey	18,800	0	21,000	4,000	0	0	12,000	0	31	320
Paulsboro Refining Co LLC										
Paulsboro	0	0	21,000	0	0	0	12,000	0	9	320
Phillips 66 Company										
Linden	18,800	0	0	4,000	0	0	0	0	22	0
New Mexico	9,500	0	7,000	0	0	0	0	0	38	224
HF Sinclair Navajo Refining LLC										
Artesia	9,500	0	7,000	0	0	0	0	0	38	224
North Dakota	5,500	0	0	0	0	0	0	0	0	15
Tesoro Refining & Marketing Co										
Mandan	5,500	0	0	0	0	0	0	0	0	15
Ohio	29,950	20,000	26,000	4,500	18,700	0	0	16,300	0	922
Lima Refining Company										
Lima	0	9,200	0	4,500	18,700	0	0	6,300	0	240
Marathon Petroleum Co LP										
Canton	8,500	0	17,000	0	0	0	0	0	0	104
Ohio Refining Company LLC										
Toledo	11,500	0	9,000	0	0	0	0	10,000	0	462
(Formerly BP-Husky Refining LLC)										
Toledo Refining Co LLC										
Toledo	9,950	10,800	0	0	0	0	0	0	0	116
Oklahoma	35,586	21,000	21,700	900	13,000	0	9,900	9,050	62	275

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2024

(Barrels per Stream Day, Except Where Noted)

State/Refiner/Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers			Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons per day)
				Isobutane	Isopentane and Isohexane	Isooctane				
CVR Refining WYN LLC										
Wynnewood	5,500	21,000	0	0	0	0	0	0	0	0
HF Sinclair Tulsa Refining LLC										
Tulsa East	5,500	0	15,200	0	13,000	0	0	0	0	75
Tulsa West	0	0	6,500	900	0	0	9,900	2,750	0	0
Phillips 66 Company										
Ponca City	17,574	0	0	0	0	0	0	6,300	35	0
Valero Refining Co Oklahoma										
Ardmore	7,012	0	0	0	0	0	0	0	27	200
Pennsylvania	16,500	0	23,560	0	9,280	0	2,945	0	10	157
American Refining Group Inc										
Bradford	0	0	560	0	780	0	2,945	0	0	0
Monroe Energy LLC										
Trainer	12,000	0	0	0	0	0	0	0	0	90
United Refining Co										
Warren	4,500	0	23,000	0	8,500	0	0	0	10	67
Tennessee	17,000	29,000	0	0	0	0	0	0	30	116
Valero Ref Company Tennessee LLC										
Memphis	17,000	29,000	0	0	0	0	0	0	30	116
Texas	416,393	179,265	47,700	55,600	156,900	0	72,900	297,095	291	16,553
Alon USA Energy Inc										
Big Spring	5,000	1,000	7,600	0	0	0	0	0	0	100
Citgo Refining & Chemical Inc										
Corpus Christi	24,878	16,270	0	0	0	0	0	12,520	0	366
Deer Park Refining LP										
Deer Park	21,000	0	0	0	0	0	0	26,100	0	1,220

Table 4. Production Capacity of Operable Petroleum Refineries by State as of January 1, 2024

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				Isobutane	Isopentane and Isohexane	Isooctane				
Delek Refining LTD										
Tyler	4,720	0	0	0	0	0	0	1,500	0	39
Diamond Shamrock Refining Co LP										
Sunray	9,800	0	5,500	3,000	0	0	0	0	30	75
Three Rivers	7,000	10,800	0	3,000	0	0	1,900	0	0	224
Equistar Chemicals LP										
Channelview	22,370	0	0	0	0	0	0	0	0	0
ExxonMobil Refining & Supply Co										
Baytown	42,000	0	0	0	0	0	32,000	22,750	0	1,828
Beaumont	16,300	0	0	14,600	38,600	0	0	15,039	0	661
Flint Hills Resources LP										
Corpus Christi East	0	0	0	0	0	0	0	0	0	102
Corpus Christi West	15,500	0	0	0	0	0	0	0	0	160
Houston Refining LP										
Houston	11,250	0	0	0	0	0	0	30,150	0	1,123
Marathon Petroleum Co LP										
Galveston Bay	67,000	97,000	0	0	0	0	0	11,910	0	1,332
Motiva Enterprises LLC										
Port Arthur	21,800	0	0	0	58,500	0	39,000	50,975	0	3,203
Phillips 66 Company										
Sweeny	26,200	20,500	0	0	10,100	0	0	22,800	0	915
Premcor Refining Group Inc										
Port Arthur	19,500	0	0	0	0	0	0	51,232	0	1,901
TotalEnergies Petrochem & Refg USA										
Port Arthur	7,500	13,600	0	0	7,800	0	0	19,200	0	806
Trecora Hydrocarbons LLC										
Silsbee	0	3,640	0	0	4,400	0	0	0	0	0

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				Isobutane	Isopentane and Isohexane	Isooctane				
Valero Refining Co Texas LP										
Corpus Christi	24,500	16,455	30,600	16,000	0	0	0	5,919	160	1,142
Houston	28,875	0	0	0	0	0	0	0	0	336
Texas City	14,700	0	0	0	6,500	0	0	19,000	0	680
Western Refining Company LP										
El Paso	12,500	0	4,000	4,000	0	0	0	0	10	0
WRB Refining LP										
Borger	14,000	0	0	15,000	31,000	0	0	8,000	91	340
Utah	21,700	0	1,800	3,318	6,000	0	0	2,500	0	92
Big West Oil Co										
North Salt Lake	3,200	0	0	1,900	3,000	0	0	0	0	3
Chevron USA Inc										
Salt Lake City	5,200	0	0	1,418	0	0	0	2,500	0	63
HF Sinclair Woods Cross Refining LLC										
Woods Cross	5,300	0	1,800	0	3,000	0	0	0	0	10
Tesoro Refining & Marketing Co										
Salt Lake City	8,000	0	0	0	0	0	0	0	0	16
Washington	42,200	0	9,000	11,600	31,000	0	0	23,650	188	849
BP Products North America Inc										
Ferndale	0	0	0	0	26,000	0	0	15,250	188	328
HF Sinclair Puget Sound Refg LLC										
Anacortes	12,500	0	0	0	0	0	0	8,400	0	350
Phillips 66 Company										
Ferndale	12,700	0	0	2,900	0	0	0	0	0	112
Tesoro Refining & Marketing Co										
Anacortes	17,000	0	0	8,700	0	0	0	0	0	48
US Oil & Refining Co										
Tacoma	0	0	9,000	0	5,000	0	0	0	0	11

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				Isobutane	Isopentane and Isohexane	Isooctane				
West Virginia	0	0	700	0	0	0	6,000	0	3	1
Ergon West Virginia Inc										
Newell	0	0	700	0	0	0	6,000	0	3	1
Wisconsin	1,700	6,100	20,000	0	0	0	0	0	0	37
Superior Refining Company LLC										
Superior	1,700	6,100	20,000	0	0	0	0	0	0	37
Wyoming	6,300	0	8,000	0	0	0	0	5,800	52	213
HF Sinclair Casper Refining Company										
Evansville	0	0	0	0	0	0	0	0	0	10
HF Sinclair Wyoming Refining Co										
Sinclair	5,000	0	8,000	0	0	0	0	5,800	52	203
Wyoming Refining Co										
Newcastle	1,300	0	0	0	0	0	0	0	0	0
U.S. Total	1,316,691	348,556	644,335	168,518	610,450	0	263,545	889,671	2,913	40,376

^a Includes hydrogen production capacity of hydrogen plants on refinery grounds and operated by the refinery operator.

Note: Refer to Table 5 for corporate ownership information. Some names of previously independent companies have been preserved by acquiring companies.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2024

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
Companies with Capacity Over 100,000 bbl/cd		Valero Ref Company Tennessee LLC	
MARATHON PETROLEUM CORP	2,950,000	Memphis, Tennessee	180,000
Marathon Petroleum Co LP		Valero Refining Co California	
Galveston Bay, Texas	631,000	Benicia, California	145,000
Garyville, Louisiana	597,000	Wilmington, California	6,300
Catlettsburg, Kentucky	300,000	Valero Refining - Meraux LLC	
Robinson, Illinois	253,000	Meraux, Louisiana	125,000
Detroit, Michigan	140,000	Valero Refining Co Oklahoma	
Canton, Ohio	100,000	Ardmore, Oklahoma	86,000
Tesoro Refining & Marketing Co		Ultramar Inc	
Carson, California	365,000	Wilmington, California	85,000
Anacortes, Washington	119,000	EXXONMOBIL CORP	1,947,764
Mandan, North Dakota	71,000	ExxonMobil Refining & Supply Co	
Salt Lake City, Utah	68,000	Beaumont, Texas	609,024
Western Refining Company LP		Baytown, Texas	564,440
El Paso, Texas	133,000	Baton Rouge, Louisiana	522,500
St Paul Park Refining Co LLC		Joliet, Illinois	251,800
Saint Paul, Minnesota	105,000	PHILLIPS 66 COMPANY	1,387,048
Tesoro Alaska Company LLC		Phillips 66 Company	
Kenai, Alaska	68,000	Sweeny, Texas	265,000
VALERO ENERGY CORP	2,206,300	Westlake, Louisiana	264,000
Valero Refining Co Texas LP		Linden, New Jersey	258,500
Corpus Christi, Texas	290,000	Ponca City, Oklahoma	231,348
Texas City, Texas	225,000	Wilmington, California	139,000
Houston, Texas	205,000	Ferndale, Washington	105,000
Premcor Refining Group Inc		Billings, Montana	66,000
Port Arthur, Texas	360,000	Rodeo, California	58,200
Diamond Shamrock Refining Co LP			
Sunray, Texas	195,000		
Three Rivers, Texas	89,000		
Valero Refining New Orleans LLC			
Norco, Louisiana	215,000		

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2024

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
PBF ENERGY CO LLC	1,042,200	El Dorado, Kansas	162,000
Chalmette Refining LLC		HF Sinclair Tulsa Refining LLC	
Chalmette, Louisiana	190,000	Tulsa West, Oklahoma	85,000
Toledo Refining Co LLC		Tulsa East, Oklahoma	70,300
Toledo, Ohio	172,800	HF Sinclair Puget Sound Refg LLC	
Delaware City Refining Co LLC		Anacortes, Washington	145,000
Delaware City, Delaware	171,000	HF Sinclair Navajo Refining LLC	
Paulsboro Refining Co LLC		Artesia, New Mexico	110,000
Paulsboro, New Jersey	160,000	HF Sinclair Wyoming Refining Co	
Torrance Refining Co LLC		Sinclair, Wyoming	75,000
Torrance, California	160,000	HF Sinclair Woods Cross Refining LLC	
Martinez Refining Co LLC		Woods Cross, Utah	39,330
Martinez, California	156,400	HF Sinclair Casper Refining Company	
CPI Operations LLC		Evansville, Wyoming	29,850
Paulsboro, New Jersey	32,000	KOCH INDUSTRIES INC	678,000
CHEVRON CORP	1,037,660	Flint Hills Resources LP	
Chevron USA Inc		Saint Paul, Minnesota	335,000
Pascagoula, Mississippi	356,440	Corpus Christi West, Texas	268,500
El Segundo, California	269,000	Corpus Christi East, Texas	74,500
Richmond, California	245,271	BP PLC	673,500
Salt Lake City, Utah	54,720	BP Products North America Inc	
Pasadena Refining Systems Inc		Whiting, Indiana	435,000
Pasadena, Texas	112,229	Ferndale, Washington	238,500
PDV AMERICA INC	804,414	SAUDI ARAMCO	
Citgo Petroleum Corp		Motiva Enterprises LLC	
Lake Charles, Louisiana	455,000	Port Arthur, Texas	626,000
PDV Midwest Refining LLC		WRB REFINING LP	505,000
Lemont, Illinois	184,414	WRB Refining LP	
Citgo Refining & Chemical Inc		Wood River, Illinois	356,000
Corpus Christi, Texas	165,000	(50% Phillips 66, 50% Cenovus)	
HF SINCLAIR CORP	716,480	Borger, Texas	149,000
HF Sinclair El Dorado Refining LLC		(50% Phillips 66, 50% Cenovus)	

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2024

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
CENOVUS ENERGY INC	371,800	Billings, Montana	61,500
Lima Refining Company		US Oil & Refining Co	
Lima, Ohio	183,000	Tacoma, Washington	40,700
Ohio Refining Company LLC ^a		Wyoming Refining Co	
Toledo, Ohio	150,800	Newcastle, Wyoming	18,000
Superior Refining Company LLC		CVR ENERGY	206,500
Superior, Wisconsin	38,000	CVR Refining CVL LLC	
PEMEX		Coffeyville, Kansas	132,000
Deer Park Refining LP		CVR Refining WYN LLC	
Deer Park, Texas	312,500	Wynnewood, Oklahoma	74,500
DELEK GROUP LTD	310,000	DELTA AIR LINES INC	
Lion Oil Co		Monroe Energy LLC	
El Dorado, Arkansas	83,000	Trainer, Pennsylvania	190,000
Alon Refining Krotz Springs Inc		CHS INC	176,700
Krotz Springs, Louisiana	80,000	CHS McPherson Refinery Inc	
Delek Refining LTD		McPherson, Kansas	114,200
Tyler, Texas	74,000	Cenex Harvest States Coop	
Alon USA Energy Inc		Laurel, Montana	62,500
Big Spring, Texas	73,000	TRANSWORLD OIL USA INC	
ACCESS INDUSTRIES		Calcasieu Refining Co	
Houston Refining LP		Lake Charles, Louisiana	135,500
Houston, Texas	263,776	KINDER MORGAN ENERGY PTNRS LP	
TOTALENERGIES SE		Kinder Morgan Crude & Condensate	
TotalEnergies Petrochem & Refg USA		Galena Park, Texas	105,000
Port Arthur, Texas	238,000	SUNCOR ENERGY INC	103,000
SHELL PLC		Suncor Energy (USA) Inc	
Shell Oil Products US		Commerce City West, Colorado	67,000
Norco, Louisiana	233,702	Commerce City East, Colorado	36,000
PAR PACIFIC HOLDINGS	213,700		
Par Hawaii Refining LLC			
Kapolei, Hawaii	93,500		
Par Montana LLC ^b			

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2024

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
CALUMET SPECIALTY PRODUCTS PARTNERS, L.P.	102,920	Corpus Christi, Texas	60,000
Calumet Shreveport Refining LLC		ERGON INC	48,800
Shreveport, Louisiana	57,000	Ergon Refining Inc	
Calumet Montana Refining LLC		Vicksburg, Mississippi	26,500
Great Falls, Montana	24,600	Ergon West Virginia Inc	
Calumet Cotton Valley Refining LLC		Newell, West Virginia	22,300
Cotton Valley, Louisiana	13,020	HARTREE PARTNERS LP	
Calumet Princeton Refining LLC		Hartree Refining LLC	
Princeton, Louisiana	8,300	Channelview, Texas	45,000
Total	17,537,464	TEXAS INTL TERMINALS	
		Texas International Terminals	
		Galveston, Texas	45,000
		ONEOK INC	
		Magellan Processing LP ^c	
		Corpus Christi, Texas	42,500
		COUNTRYMARK COOP INC	
		Countrymark Refining & Logistics LLC	
		Mount Vernon, Indiana	34,500
		FJ MANAGEMENT INC	
		Big West Oil Co	
		North Salt Lake, Utah	31,664
		Total	672,464
		Companies with Capacity	
		30,001 to 100,000 bbl/cd	
VERTEX ENERGY LP			
Vertex Refining Alabama LLC			
Saraland, Alabama	88,000		
ARCTIC SLOPE REGIONAL CORP	76,000		
Petro Star Inc			
Valdez, Alaska	55,000		
North Pole, Alaska	21,000		
PLACID OIL CO			
Placid Refining Co			
Port Allen, Louisiana	75,000		
RED APPLE GROUP INC			
United Refining Co			
Warren, Pennsylvania	65,000		
HUNT CONSLD INC	61,000		
Hunt Refining Co			
Tuscaloosa, Alabama	50,000		
Hunt Southland Refining Co			
Sandersville, Mississippi	11,000		
BUCKEYE PARTNERS LP			
Buckeye Texas Processing LLC			
		Companies with Capacity	
		10,001 to 30,000 bbl/cd	
		KERN OIL & REFINING CO	
		Kern Oil & Refining Co	
		Bakersfield, California	26,000
		PETROMAX REFINING CO LLC	
		Petromax Refining Co LLC	
		Houston, Texas	25,000

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2024

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day
STARLIGHT RELATIVITY ACQUISITION CO		Goodway Refining LLC	
The San Antonio Refinery LLC		Atmore, Alabama	4,100
San Antonio, Texas	20,000	FORELAND REFINING CORP	
SILVER EAGLE REFINING INC		Foreland Refining Corp	
Silver Eagle Refining	18,000	Ely, Nevada	2,000
Woods Cross, Utah	15,000	TALLEY ASPHALT PRODUCTS INC	
Evanston, Wyoming	3,000	Talley Asphalt Products Inc	
CONOCOPHILLIPS CO		Kern, California	1,700
ConocoPhillips Alaska Inc		Total.....	30,300
Prudhoe Bay, Alaska	15,000	U.S. Total.....	18,384,228
SAN JOAQUIN REFINING CO INC			
San Joaquin Refining Co Inc			
Bakersfield, California	15,000		
BLUE DOLPHIN ENERGY CO			
Lazarus Energy LLC			
Nixon, Texas	14,000		
AMERICAN REFINING GROUP INC			
American Refining Group Inc			
Bradford, Pennsylvania	11,000		
Total.....	144,000		
Companies with Capacity 10,000 bbl/cd or Less			
WORLD OIL CO			
Lunday Thagard Co			
South Gate, California	8,500		
MARTIN RESOURCE MGMT CORP			
Cross Oil Refining & Marketing Inc			
Smackover, Arkansas	7,500		
HILCORP ENERGY CO			
Hilcorp North Slope LLC			
Prudhoe Bay, Alaska	6,500		
GOODWAY REFINING LLC			

Table 5. Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity as of January 1, 2024

CORPORATION / Refiner / Location	Barrels per Calendar Day	CORPORATION / Refiner / Location	Barrels per Calendar Day

a Formerly owned by BP-Husky Refining LLC

b Formerly owned by ExxonMobil Corporation

c Formerly owned by Magellan Midstream Partners LP

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 6. Operable Crude Oil and Downstream Charge Capacity of Petroleum Refineries

(Thousand Barrels per Stream Day)

Year/PAD District	Atmospheric Crude Oil Distillation	Downstream Charge Capacity							
		Vacuum Distillation	Thermal Cracking	Catalytic Cracking		Catalytic Hydro- Cracking	Catalytic Reforming	Hydrotreating/ Desulfurization	Fuels Solvent Deasphalting
				Fresh	Recycled				
JAN 1, 1995	16,326	7,248	2,123	5,583	169	1,386	3,867	10,916	251
JAN 1, 1997	16,287	7,349	2,050	5,595	155	1,388	3,727	11,041	275
JAN 1, 1999	17,155	7,538	2,046	5,920	153	1,552	3,779	11,461	319
JAN 1, 2000	17,393	7,617	2,163	5,949	99	1,576	3,770	11,440	351
JAN 1, 2001	17,511	7,798	2,277	5,983	86	1,615	3,797	11,673	350
JAN 1, 2002	17,676	7,779	2,329	5,989	80	1,633	3,753	11,845	362
JAN 1, 2003	17,675	7,788	2,377	6,052	79	1,644	3,777	11,987	350
JAN 1, 2004	17,815	7,964	2,435	6,098	87	1,602	3,812	13,501	366
JAN 1, 2005	18,031	8,120	2,491	6,151	87	1,624	3,836	14,087	384
JAN 1, 2006	18,308	8,398	2,540	6,188	87	1,637	3,859	14,808	386
JAN 1, 2007	18,425	8,251	2,564	6,219	82	1,791	3,908	15,447	379
JAN 1, 2008	18,558	8,421	2,606	6,266	79	1,770	3,892	15,807	378
JAN 1, 2009	18,681	8,542	2,639	6,292	79	1,743	3,829	16,131	381
JAN 1, 2010	18,581	8,543	2,632	6,140	92	1,820	3,700	16,023	383
JAN 1, 2011	18,953	8,650	2,672	6,220	96	1,856	3,721	16,683	383
JAN 1, 2012	18,560	8,680	2,763	6,033	85	1,880	3,642	16,565	375
JAN 1, 2013	18,972	8,938	2,877	6,089	84	2,081	3,758	16,860	368
JAN 1, 2014	19,064	8,987	2,959	6,032	76	2,208	3,759	17,095	370
JAN 1, 2015	19,134	8,979	2,975	6,012	76	2,305	3,741	17,324	370
JAN 1, 2016	19,508	9,073	2,983	6,052	76	2,318	3,743	17,483	371
JAN 1, 2017	19,800	9,126	2,994	6,007	76	2,421	3,750	17,621	393
JAN 1, 2018	19,794	9,076	3,023	6,031	77	2,462	3,801	17,697	393
JAN 1, 2019	19,961	9,121	3,046	5,986	62	2,490	3,810	17,795	395
JAN 1, 2020	20,092	9,171	3,069	5,988	62	2,505	3,809	17,926	396
JAN 1, 2021	19,160	8,710	2,994	5,600	58	2,417	3,606	17,191	396
JAN 1, 2022	18,949	8,583	2,960	5,502	49	2,427	3,571	16,996	397
JAN 1, 2023	19,157	8,604	2,962	5,466	49	2,392	3,606	17,099	385
JAN 1, 2024	19,453	8,617	3,020	5,487	49	2,400	3,602	17,303	385
PADD I	966	391	55	305	5	47	183	755	22
PADD II	4,480	1,863	611	1,368	9	369	905	4,191	19
PADD III	10,567	4,696	1,716	2,836	17	1,389	1,859	9,441	258
PADD IV	701	244	76	212	2	37	121	569	6
PADD V	2,738	1,422	562	766	17	558	534	2,348	80
JAN 1, 2025^a	19,406	8,523	2,972	5,487	49	2,331	3,568	17,282	385
PADD I	966	391	55	305	5	47	183	755	22
PADD II	4,480	1,863	611	1,368	9	369	905	4,191	19
PADD III	10,582	4,696	1,719	2,836	17	1,389	1,859	9,447	258
PADD IV	701	244	76	212	2	37	121	569	6
PADD V	2,676	1,329	511	766	17	489	500	2,320	80
2024-2025^a	-47	-94	-48	0	0	-69	-34	-21	0
PADD I	0	0	0	0	0	0	0	0	0
PADD II	0	0	0	0	0	0	0	0	0
PADD III	15	0	3	0	0	0	0	6	0
PADD IV	0	0	0	0	0	0	0	0	0
PADD V	-62	-93	-51	0	0	-69	-34	-28	0

^a Projected data from refiners.

Notes:

NA = Not available.

Totals may not equal sum of components due to independent rounding.

The EIA-820 refinery capacity survey was not conducted for January 1, 1996 or January 1, 1998.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 7. Operable Production Capacity of Petroleum Refineries
(Thousand Barrels per Stream Day, Except Where Noted)

Year/PAD District	Production Capacity							
	Alkylates	Aromatics	Asphalt and Road Oil	Isomers	Lubricants	Marketable Petroleum Coke	Hydrogen ^a (MMcfd)	Sulfur (short tons/day)
JAN 1, 1995	1,105	285	846	502	217	427	3,139	24,885
JAN 1, 1997	1,120	288	872	577	244	458	3,052	26,466
JAN 1, 1999	1,172	302	846	667	233	441	3,104	26,423
JAN 1, 2000	1,185	315	886	643	218	464	3,143	26,645
JAN 1, 2001	1,191	318	900	654	214	538	3,230	27,446
JAN 1, 2002	1,181	313	917	658	218	548	3,244	29,107
JAN 1, 2003	1,191	316	873	679	216	646	3,265	29,766
JAN 1, 2004	1,205	322	887	688	210	672	3,258	30,606
JAN 1, 2005	1,229	318	881	703	217	696	2,965	31,004
JAN 1, 2006	1,238	319	893	708	220	709	2,823	32,421
JAN 1, 2007	1,227	306	877	739	234	722	3,100	33,021
JAN 1, 2008	1,261	285	858	727	249	735	3,109	33,487
JAN 1, 2009	1,261	299	847	736	230	762	2,914	33,500
JAN 1, 2010	1,249	271	844	715	240	760	2,985	34,058
JAN 1, 2011	1,262	297	828	703	243	778	3,082	35,483
JAN 1, 2012	1,247	297	796	688	242	823	3,215	36,663
JAN 1, 2013	1,269	318	741	737	241	867	3,047	39,478
JAN 1, 2014	1,266	297	744	739	240	883	3,094	41,375
JAN 1, 2015	1,267	316	710	757	265	887	3,102	41,266
JAN 1, 2016	1,286	323	733	755	273	889	2,997	41,343
JAN 1, 2017	1,300	324	726	749	261	898	3,009	41,766
JAN 1, 2018	1,316	324	659	743	262	896	3,037	41,419
JAN 1, 2019	1,337	332	645	740	263	903	3,073	41,639
JAN 1, 2020	1,349	332	651	772	261	909	3,126	41,917
JAN 1, 2021	1,314	327	642	744	264	894	2,893	40,578
JAN 1, 2022	1,294	312	690	758	264	883	2,893	40,453
JAN 1, 2023	1,302	291	659	768	264	883	2,875	40,437
JAN 1, 2024	1,317	349	644	779	264	890	2,913	40,376
PADD I	48	5	45	19	21	14	109	1,074
PADD II	309	113	282	169	10	195	659	8,655
PADD III	679	229	206	346	193	505	747	24,343
PADD IV	45	0	62	16	0	24	208	664
PADD V	236	2	49	228	40	153	1,190	5,640
JAN 1, 2025^b	1,317	349	644	765	264	876	2,891	39,816
PADD I	48	5	45	19	21	14	109	1,074
PADD II	309	113	282	169	10	195	659	8,655
PADD III	679	229	206	346	193	506	747	24,343
PADD IV	45	0	62	16	0	24	208	664
PADD V	236	2	49	215	40	138	1,168	5,080
2024-2025^b	0	0	0	-14	0	-14	-22	-560
PADD I	0	0	0	0	0	0	0	0
PADD II	0	0	0	0	0	0	0	0
PADD III	0	0	0	0	0	1	0	0
PADD IV	0	0	0	0	0	0	0	0
PADD V	0	0	0	-13	0	-15	-22	-560

^a Includes hydrogen production capacity of hydrogen plants on refinery grounds and operated by the refinery operator.

^b Projected data from refiners.

Notes:

NA = Not available. MMcfd = Million cubic feet per day.

Totals may not equal sum of components due to independent rounding.

The EIA-820 refinery capacity survey was not conducted for January 1, 1996 or January 1, 1998.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 8. Capacity and Fresh Feed Input to Selected Downstream Units at U.S. Refineries, 2022 - 2024
(Barrels per Calendar Day)

Year/PAD District	Cokers		Catalytic Crackers		Hydrocrackers		Reformers	
	Capacity	Inputs	Capacity	Inputs	Capacity	Inputs	Capacity	Inputs
2022	2,673,997	2,264,060	5,089,089	4,366,521	2,237,826	1,845,929	3,285,715	2,769,041
PADD I	49,100	37,430	277,300	249,384	43,100	39,836	135,550	123,838
PADD II	551,924	476,414	1,250,820	1,056,222	342,020	285,948	832,719	675,310
PADD III	1,512,723	1,308,008	2,657,004	2,302,510	1,293,154	1,057,011	1,704,105	1,505,090
PADD IV	68,550	47,068	195,965	159,326	53,092	21,882	111,750	93,671
PADD V	491,700	395,140	708,000	599,079	506,460	441,252	501,591	371,132
2023	2,675,408	2,248,093	5,063,828	4,381,367	2,211,475	1,807,123	3,323,502	2,774,170
PADD I	49,100	30,405	277,300	226,551	44,100	35,956	164,050	136,121
PADD II	552,714	471,625	1,257,319	1,068,819	332,195	284,460	833,344	691,888
PADD III	1,503,074	1,324,233	2,623,764	2,330,115	1,295,488	1,056,986	1,706,300	1,486,600
PADD IV	70,270	58,038	197,445	156,293	35,092	15,249	111,700	88,118
PADD V	500,250	363,792	708,000	599,589	504,600	414,471	508,108	371,444
2024	2,731,238	NA	5,078,119	NA	2,226,438	NA	3,308,735	NA
PADD I	49,100	NA	277,300	NA	43,100	NA	164,050	NA
PADD II	553,937	NA	1,261,677	NA	339,881	NA	836,487	NA
PADD III	1,557,581	NA	2,628,997	NA	1,302,265	NA	1,704,698	NA
PADD IV	70,270	NA	199,145	NA	35,092	NA	111,300	NA
PADD V	500,350	NA	711,000	NA	506,100	NA	492,200	NA

NA = Not Available.

Note: Capacities are as of January 1 of the indicated year.

Sources: Capacities are from the Energy Information Administration (EIA) Form EIA-820, "Annual Refinery Report."

Inputs are from the form EIA-810, "Monthly Refinery Report." Year 2022 data are final, 2023 data are preliminary.

Table 9. Refinery Receipts of Crude Oil by Method of Transportation by PAD District, 2023^a

(Thousand Barrels)

Method	PAD Districts					United States
	I	II	III	IV	V	
Pipeline	27,751	1,388,166	2,687,376	175,692	249,261	4,528,246
Domestic	2,817	740,970	2,229,288	82,590	130,671	3,186,336
Foreign	24,934	647,196	458,088	93,102	118,590	1,341,910
Tanker	217,172	0	428,840	0	469,478	1,115,490
Domestic	24,167	0	24,437	0	167,561	216,165
Foreign	193,005	0	404,403	0	301,917	899,325
Barge	3,584	15,069	110,573	0	30,010	159,236
Domestic	3,519	15,069	88,975	0	314	107,877
Foreign	65	0	21,598	0	29,696	51,359
Tank Cars (Rail)	6,613	0	12,147	0	40,030	58,790
Domestic	2,654	0	2,858	0	33,100	38,612
Foreign	3,959	0	9,289	0	6,930	20,178
Trucks	2,681	1,902	49,690	33,486	7,388	95,147
Domestic	2,552	1,902	49,690	33,486	7,388	95,018
Foreign	129	0	0	0	0	129
Total	257,801	1,405,137	3,288,626	209,178	796,167	5,956,909
Domestic	35,709	757,941	2,395,248	116,076	339,034	3,644,008
Foreign	222,092	647,196	893,378	93,102	457,133	2,312,901

^a

Receipts are reported by the last method of transportation used if the distance traveled is greater than 100 miles. If several methods are used and none are greater than 100 miles, the method which represents the greatest distance traveled is reported. For example, if crude oil traveled by rail for 1,500 miles and then by barge for 120 miles, then the reported mode of transportation would be barge rather than rail.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report."

Table 10a. Fuel Consumed at Refineries by PAD District, 2023
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					United States
	I	II	III	IV	V	
Crude Oil	0	0	0	0	0	0
Hydrocarbon Gas Liquids	0	637	351	0	1,046	2,034
Distillate Fuel Oil	0	20	158	0	95	273
Residual Fuel Oil	12	34	0	0	0	46
Still Gas	7,573	53,375	109,014	8,425	42,862	221,249
Marketable Petroleum Coke	0	0	0	0	0	0
Catalyst Petroleum Coke	4,358	16,812	36,381	2,528	10,496	70,575
Natural Gas (million cubic feet)	53,098	180,270	575,110	27,999	184,769	1,021,246
Coal (thousand short tons)	0	0	0	0	0	0
Purchased Electricity (million kWh)	1,617	13,004	22,354	2,382	3,751	43,108
Purchased Steam (million pounds)	6,116	12,774	69,756	1,394	3,728	93,768
Other Products ^a	6	1	530	9	508	1,054

Note: Includes volumes used as fuel at refineries and all nonprocessing losses of crude oil and petroleum products (e.g., spills, fire losses, contamination, etc.)

^a Includes other hydrocarbons, hydrogen, unfinished oils, gasoline, special naphthas, jet fuel, lubricants, asphalt and road oil, and miscellaneous products.

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report," and Form EIA-810, "Monthly Refinery Report."

Table 10b. Natural Gas Used as Feedstock for Hydrogen Production at Refineries by PAD District, 2023
(Million Cubic Feet)

Commodity	PAD Districts					United States
	I	II	III	IV	V	
Natural Gas Used As Feedstock For Hydrogen Production	5,265	51,429	54,569	17,586	43,464	172,313

Source: Energy Information Administration (EIA), Form EIA-820, "Annual Refinery Report".

Table 11. New, Shutdown and Reactivated Refineries During 2023

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd) ^a	Total Downstream Charge Capacity (bbl/sd) ^b	Date Operable	Date of Last Operation	Date Shutdown
NEW^c						
PAD District III			100,000			
Targa Downstream LLC	Mont Belvieu, TX		35,000			
Enterprise Prod Texas Operating LLC	Mont Belvieu, TX		65,000			
REACTIVATED						
PAD District I		32,000				
CPI Operations LLC	Paulsboro, NJ	32,000		11/23		

^a bbl/cd=Barrels per calendar day.

^b bbl/sd=Barrels per stream day.

^c Non-refinery operators of natural gasoline hydrotreaters added to the Annual Refinery Report for January 1, 2024.

Table 12. Refinery Sales from January 2, 2023 to January 1, 2024

Former Corporation/Refiner	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	New Corporation/Refiner	Date of Sale
BP-Husky Refining LLC/BP-Husky Refining LLC Toledo, OH	150,800	Cenovus Energy Inc/Ohio Refining Co LLC	2/23
ExxonMobil Corp/ExxonMobil Ref & Supply Co Billings, MT	61,500	Par Pacific Holdings/Par Montana LLC	6/23
Magellan Midstream Partners LP/Magellan Processing LP Corpus Christi, TX	42,500	Oneok Inc/Magellan Processing LP	9/23

bbl/cd= Barrels per calendar day

Sources: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report" and Form EIA-820, "Annual Refinery Report."

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1990 and January 1, 2024

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date of Last Operation	Date Shutdown
PAD District I		979,450	1,662,600		
Primary Energy Corp	Richmond, VA	6,100	0	a	
GNC Energy Corp	Greensboro, NC	3,000	0	a	
Saint Mary's Refining Co	Saint Mary's, WV	4,000	4,480	02/93	03/93
Cibro Refining	Albany, NY	41,850	27,000	07/93	09/93
Calumet Lubricants Co LP	Rouseville, PA	12,800	26,820	03/00	06/00
Young Refining Corp.	Douglasville, GA	5,400	0	07/04	07/04
Sunoco Inc	Westville, NJ	145,000	263,000	11/09	02/10
Western Refining Yorktown Inc	Yorktown, VA	66,300	182,600	09/11	12/11
Sunoco Inc	Marcus Hook, PA	178,000	278,000	12/11	12/11
Chevron USA Inc	Perth Amboy, NJ	80,000	47,000	03/08	07/12
Hess Corporation	Port Reading, NJ	0	115,000	02/13	03/13
Axon Specialty Products LLC	Savannah, GA	28,000	0	09/12	11/14
Axon Specialty Products LLC	Paulsboro, NJ	74,000	32,000	04/17	09/17
Philadelphia Energy Solutions	Philadelphia, PA	335,000	686,700	a	
PAD District II		496,815	670,790		
Coastal Refining & Mktg	El Dorado, KS	0	20,000	b	
Intercoastal Energy Svcs Corp	Troy, IN	1,250	2,250	11/90	03/91
Farmland Industries	Philipsburg, KS	26,400	22,800	12/91	07/92
Coastal Refining & Mktg	Wichita, KS	28,800	41,300	05/93	06/93
Coastal Refining & Mktg	Augusta, KS	0	21,000	06/93	06/93
Crystal Refining	Carson City, MI	3,000	0	10/92	09/93
Marathon	Indianapolis, IN	50,000	68,000	09/93	10/93
Indian Refining	Lawrenceville, IL	80,750	103,000	09/95	10/95
Cyril Petrochemical Corp	Cyril, OK	7,500	0	09/95	12/95
Laketon Refining	Laketon, IN	11,100	0	06/95	01/96
Total Petroleum, Inc.	Arkansas City, KS	56,000	74,840	08/96	09/96
TPI Petro Inc.	Alma, MI	51,000	63,300	11/99	12/99
Premcor Refining Group	Blue Island, IL	80,515	124,500	01/01	04/01
Premcor Refining Group	Hartford, IL	64,000	116,700	09/02	10/02
Ventura Refining & Transmission LLC	Thomas, OK	12,000	0	10/10	11/14
Continental Refining Company LLC	Somerset, KY	5,500	3,600	02/18	12/19
Dakota Prairie Refining LLC	Dickinson, ND	19,000	9,500	d	

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1990 and January 1, 2024

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date of Last Operation	Date Shutdown
PAD District III		838,226	1,447,640		
Imron Refining, Inc.	San Leon, TX	7,000	0	c	
Eagle Refining	Jackson, TX	1,800	1,800	01/90	10/90
Vulcan Refining	Cordova, AL	9,500	5,000	09/90	12/90
Sabine Resources	Stonewall, LA	12,000	0	c	
Rattlesnake Refining	Wickett, TX	8,000	10,400	02/92	03/92
Longview Refining Assoc	Longview, TX	13,300	13,800	08/92	09/92
Thriftway Co	Bloomfield, NM	4,000	3,250	01/92	10/92
El Paso Refining	El Paso, TX	50,000	76,000	10/92	12/92
Dubach Gas	Dubach, LA	8,500	3,000	12/93	12/93
Amerada Hess	Purvis, MS	30,000	50,500	01/94	02/94
Barrett Refg Corp	Vicksburg, MS	8,000	0	06/95	01/96
Arcadia Refining & Mktg	Lisbon, LA	7,350	6,700	01/96	02/96
Canal Refg Co.	Chuch Point, LA	9,500	2,100	07/95	09/97
Gold Line Refining LTD	Jennings, LA	12,000	0	07/97	01/98
Petrolite Corp	Kilgore, TX	600	750	12/97	02/98
Pride Refining Inc.	Abilene, TX	42,750	40,500	05/98	04/98
Shell Oil Co	Odessa, TX	28,300	33,500	10/98	11/98
Berry Petroleum Co.	Stephens, AR	6,700	3,700	07/99	02/00
Dow Haltermann Products	Channelview, TX	880	0	09/04	12/05
Hunt Southland Refining Co	Lumberton, MS	5,800	0	03/05	12/06
Gulf Atlantic Operations LLC	Mobile, AL	16,700	15,400	03/06	09/07
Western Refining Southwest Inc	Bloomfield, NM	16,800	19,500	12/09	11/12
Trigeant LTD	Corpus Christi, TX	0	29,000	12/13	12/14
Pelican Refining Company LLC	Lake Charles, LA	0	12,000	12/14	01/15
Shell Oil Products US	Saint Rose, LA	45,000	25,000	01/18	01/18
Western Refining Southwest Inc	Gallup, NM	27,000	37,500	04/20	09/20
Shell Oil Products US	Convent, LA	211,146	574,900	12/20	01/21
Phillips 66 Company	Belle Chasse, LA	255,600	483,340	a	

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1990 and January 1, 2024

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date of Last Operation	Date Shutdown
PAD District IV		109,800	188,100		
Amoco Oil Co.	Casper, WY	40,000	44,900	12/91	12/91
Landmark Refining	Fruita, CO	10,000	25,900	01/92	11/93
Pennzoil Producing Co.	Roosevelt, UT	8,000	12,900	09/94	10/94
Antelope Refining LLC	Douglas, WY	3,800	0	02/15	12/16
HollyFrontier Cheyenne Refining LLC	Cheyenne, WY	48,000	104,400	d	
PAD District V		665,360	1,037,750		
Gibson Oil & Refining	Bakersfield, CA	9,600	0	07/87	12/90
Chevron USA Inc	Kenai, AK	22,000	0	06/91	07/91
Anchor Refining Co.	McKittrick, CA	10,000	6,000	06/91	08/91
Golden West	Santa Fe Springs, CA	47,000	94,300	02/92	03/92
Eco Asphalt Inc.	Long Beach, CA	10,550	7,000	c	
Fletcher Oil & Refining	Carson, CA	29,675	48,100	09/92	10/92
Sunbelt Refining	Coolidge, AZ	10,000	7,000	08/93	09/93
Chemoil Refining Corp	Long Beach, CA	18,000	0	02/94	04/94
Powerine Oil Co.	Santa Fe Springs, CA	46,500	100,300	06/95	09/95
Sunland Refining Corp.	Bakersfield, CA	12,000	2,650	03/95	12/95
Intermountain Refining Co.	Fredonia, AZ	3,800	2,000	01/94	05/96
Pacific Refining Co.	Hercules, CA	50,000	62,400	07/95	09/97
Sound Refining Inc	Tacoma, WA	11,900	6,000	10/98	12/98
Chevron USA Inc.	Richmond Beach, WA	0	6,200	05/00	06/00
Foreland Refining Corp.	Tonopah, NV	0	3,000	02/01	01/02
Tricor Refining LLC	Bakersfield, CA	0	14,400	07/01	01/02
Paramount Petroleum Corporation	Portland, OR	0	10,000	11/06	12/08
Tenby Inc	Oxnard, CA	2,800	0	12/11	12/11
Flint Hills Resources LP	North Pole, AK	126,535	5,500	a	
Alon Bakersfield Operating Inc	Bakersfield, CA	0	52,000	12/08	09/17
Paramount Petroleum Corporation	Paramount, CA	84,500	78,500	d	
Tesoro Refining & Marketing Co	Martinez, CA	161,000	532,400	d	
California Asphalt Production Inc	Santa Maria, CA	9,500		04/21	01/22
U.S. Total		3,089,651	5,006,880		

Table 13. Refineries Permanently Shutdown By PAD District Between January 1, 1990 and January 1, 2024

PAD District / Refinery	Location	Total Atmospheric Crude Oil Distillation Capacity (bbl/cd)	Total Downstream Charge Capacity (bbl/sd)	Date of Last Operation	Date Shutdown
PAD District VI		380,700	807,200		
Arochem International	Ponce, PR	75,600	37,000	12/91	12/92
Peerless Oil & Chemical	Ponce, PR	8,800	45,200	09/94	12/94
Chevron Phillips Chem	Guayama, PR	0	93,200	03/01	01/02
Caribbean Petroleum Corp	San Juan, PR	42,000	60,500	12/00	01/05
Shell Chem Yabucoa Inc	Yabucoa, PR	77,900	91,300	10/08	12/09
Port Hamilton Refg & Transp Lllp	Kingshill, VI	176,400	480,000	05/21	08/22

- a. Facility in operation as other than a refinery since it no longer processes crude oil or unfinished oils.
- b. Facility maintained asphalt production capacity until September, 2004.
- c. Never Operated
- d. Converted to a renewable diesel plant

bbl/cd=Barrels per calendar day

bbl/sd=Barrels per stream day.

Sources: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report" and Form EIA-820, "Annual Refinery Report."

Explanatory Notes

Survey Methodology

Description of Survey Form

The Form EIA-820, “Annual Refinery Report,” is the primary source of data in the “Refinery Capacity Report” tables. The form collects data on the consumption of purchased steam, electricity, coal, and natural gas; refinery receipts of crude oil by method of transportation; operable capacity for atmospheric crude oil distillation units and downstream units; and production capacity for selected petroleum products.

Frame

The respondent frame consists of all operating and idle petroleum refineries, and beginning in 2024, all non-refinery operators of distillation, reforming, cracking, coking, hydrotreating and similar processes located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions. As of January 1, 2024, there were 132 respondents in the frame.

The respondent frame is maintained by monitoring the monthly Form EIA-810, “Monthly Refinery Report,” and industry publications for changes and developments in the petroleum industry such as refinery sales, mergers and new operations.

Collection

The Form EIA-820 is sent to respondents in January. Survey forms can be submitted by secure file transfer. Completed forms are required to be submitted by the 15th day of February of the current report year. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to secure responses from those companies failing to report by February 15th.

Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts).

After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. Anomalies result in further review of respondent data which in turn may result in additional flagged data and imputation.

Imputation and Estimation

Imputation is performed for companies that fail to file prior to the publication deadline. When nonresponse occurs, values for these companies are imputed from data reported on the most recent year’s Form EIA-820 and/or from data reported on Form EIA-810, “Monthly Refinery Report,” for that company. For most surveyed items, the value imputed for nonrespondents is the value that the company reported on the Form EIA-820 for the most recent year. For two categories of information however, the imputed value is also based on their data from the Form EIA-810 as follows:

Part 4: Refinery Receipts of Crude Oil by Method of Transportation

The imputation methodology for this section is based on data reported on both the monthly Form EIA-810 and the annual Form EIA-820. Annual refinery receipts of domestic and foreign crude oil for a nonrespondent are imputed by

aggregating the values for the refinery on the monthly survey. These values are allocated to the method of transportation by using the percentages reported for the refinery in the previous year.

Part 5: Atmospheric Crude Oil Distillation Capacity

Operable atmospheric crude oil distillation capacity in barrels per calendar day is collected on the monthly Form EIA-810 as of the first day of each month and on the annual Form EIA-820 as of January 1. As part of the editing process for the Form EIA-820, these two values are compared. Companies are contacted and any discrepancies are resolved by the time of publication. Imputed values for operable atmospheric crude oil distillation capacity in barrels per calendar day are taken directly from the January Form EIA-810. A barrel per stream day capacity is then derived by dividing the reported barrels per calendar day capacity by .95.

Parts 6 and 7: Downstream Charge Capacity and Production Capacity

Current year and projected year data for downstream charge capacity and production capacity are taken directly from the previous year's annual report.

Macro Editing

A comparison of the data collected on the EIA-820 with other similar data series and industry trade journals is performed each year.

Dissemination

Prior to 2006, the data collected on Form EIA-820, "Annual Refinery Report," was published in the *Petroleum Supply Annual, Volume 1*. Beginning with data for 2006, the Form EIA-820 data are published as a standalone product in the EIA publication "Refinery Capacity Report." This report contains statistics on consumption of purchased steam, electricity, coal, and natural gas; refinery receipts of crude oil by method of transportation; current and projected capacities for atmospheric crude oil distillation, downstream charge and production capacities. The "Refinery Capacity Report" can be found at:

<https://www.eia.gov/petroleum/refinerycapacity/>

Additional Sources of Data

The Form EIA-820, "Annual Refinery Report," is the primary source of data in the "Refinery Capacity Report" tables. In addition, some data collected on the Form EIA-810, "Monthly Refinery Report," are included.

Quality

Response Rates

The response rate for the Form EIA-820 is normally 100 percent.

Non-sampling Errors

There are two types of errors usually associated with data produced from a survey -sampling errors and nonsampling errors. Because estimates from the Form EIA-820 survey are based on a complete census of the frame of petroleum refineries, there is no sampling error in the data presented in this report. The data, however, are subject to nonsampling errors. Nonsampling errors are those which can arise from: (1) the inability to obtain data from all companies in the frame or sample (nonresponse) and the method used to account for nonresponses; (2) definitional difficulties and/or improperly

worded questions which lead to different interpretations; (3) mistakes in recording or coding the data obtained from respondents; and (4) other errors of collection, response, coverage, and estimation. Quality control procedures are employed in the collection and editing operations to minimize misrepresentation and misreporting. Nonresponse follow-up procedures are employed to reduce the number of nonrespondents, and procedures employed to impute missing data, introduce a minimal amount of error, given the relatively small volume of imputed data.

Resubmissions

EIA-820 resubmissions are required whenever an error greater than 5 percent of the true value is discovered. In the event of a reporting error, company reports are updated after contact with the company and are followed up by corrected report resubmissions.

Revision Policy

The “Refinery Capacity Report” reflects EIA’s final data on refinery capacity and will be revised only if, in EIA’s judgment, a revision is expected to substantively affect understanding of the U.S. refinery capacity.

Confidentiality

Information on operable atmospheric crude oil distillation capacity, downstream charge capacity, and production capacity reported on Parts 5, 6, and 7 of Form EIA-820 are not considered confidential and are published in the “Refinery Capacity Report.” All other information reported on Form EIA-820 (i.e. Parts 3 and 4 and respondent information) will be protected and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the DOE regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905.

The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another component of the Department of Energy (DOE); to any Committee of Congress, the General Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Disclosure limitation procedures are not applied to the statistical data published from this survey’s information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

Refinery Capacity History

Refinery capacity data collection was begun in 1918 by the Bureau of Mines, then in the Department of Commerce, and was operated on a voluntary basis until 1980. In 1980, the mandatory Energy Information Administration (EIA) Form EIA-177, “Capacity of Petroleum Refineries,” was implemented. Information on refining capacity was expanded to include not only current year operations, but two-year projections, and refinery input/production data. Working storage capacity data was also added to the form and product categories were added for total coverage. Information on refinery downstream facilities was expanded to include a breakdown of thermal operations and to add vacuum distillation, catalytic hydrorefining and hydrotreating. Production capacity was also added to include information on isomerization, alkylation, aromatics, asphalt/road oil, coking, lubricants and hydrogen.

In 1983, the form was revised to improve the consistency and quality of the data collected by the EIA and redesignated as Form EIA-820, "Annual Refinery Report." Two sections for data previously reported monthly were added: (1) refinery receipts of crude oil by method of transportation, and (2) fuels consumed for all purposes at refineries. Also, the second year projections on refining capacity were eliminated. As a result of a study conducted by the EIA evaluating motor gasoline data collected by the Federal Highway Administration (FHWA) and by the EIA, motor gasoline blending plants were included for the first time in the respondent frame in order to produce more accurate statistics on the production of motor gasoline.

In 1987, the form was revised to reduce respondent burden and to better reflect current refinery operations through updated terminology. Information on projected input/production of refinery processing facilities was deleted. Several categories under catalytic hydrotreating were combined: naphtha and reformer feeds were combined into a single category as well as residual fuel oil and "other." Thermal cracking types, gas oil and "other" were also combined into a single category. Catalytic reforming types, conventional and bi-metallic were replaced with low and high pressure processing units. Two new categories were added: fuels solvent deasphalting was added to downstream charge capacity and sulfur recovery was added to production capacity.

In 1994, the form was revised to enable EIA to calculate utilization rates for certain downstream processing units and to reflect storage capacity of fuels mandated by the Clean Air Act Amendments of 1990. Additions to the form included calendar day downstream charge capacity for fluid and delayed coking, catalytic cracking, and catalytic hydrocracking. Also storage capacity categories for reformulated, oxygenated, and other finished motor gasoline were added, as well as oxygenate storage capacity and separate categories for high and low sulfur distillate fuel oil.

In 1995, motor gasoline blending plants were dropped from the survey frame, since by this time, the only section of the form that applied to them was working and shell storage capacity. Also in 1995, a decision was made to no longer collect storage capacity from shutdown refineries; therefore, these refineries were also eliminated from the survey frame.

In 1996, the survey was moved to a biennial schedule (every other year) and was renamed "Biennial Refinery Report." The survey was not conducted for January 1, 1996 or January 1, 1998. Respondents were not required to submit data for crude oil and petroleum products consumed at refineries during 1995 and 1997. These data are available from the Form EIA-810, "Monthly Refinery Report." The requirement to submit data for refinery consumption of natural gas, coal, and purchased steam and electricity on the Form EIA-820 remained.

In 2000, the survey was moved to an annual schedule.

In 2004, the survey form was amended to reflect the increasing emphasis on the removal of sulfur from transportation fuels.

In 2009, natural gas used as feedstock for hydrogen plant production was added to the form. Also, isooctane production capacity was added.

In 2010, the survey form was amended to reflect the increasing use of bio-fuels. Storage capacities of biomass-based diesel fuel, other renewable diesel fuel and other renewable fuels were added to the form. Also, barrels per calendar day capacity of the catalytic reformer was added; previously this was only collected on a stream day basis.

In 2011, storage capacity data was removed from the form. Storage capacity is now being collected as of March 31 on the Form EIA-810, "Monthly Refinery Report."

In 2024, the frame was amended to include non-refinery operators of distillation, reforming, cracking, coking, hydrotreating and similar processes.