#VALUE!	The Environmental Integrity Project is a nonprofit organization dedicated to protecting public health and our natural resources by holding polluters and government agencies accountable under the law, advocating for tough but fair environmental standards, and empowering communities fighting for clean air and clean water.

Attachment A: Detailed Data about Individual Plastics Plants and Proposed Projects

Attachment A includes facility-level details for the plastics plants included in EIP's report, "Feeding the Plastics Industrial Complex," available at the link below. See the methods in the report for detailed analysis. This Attachment contains four sheets: 1) a list of existing plastics plants that were built or expanded since 2012; 2) a dataset that contains capacity information for the 50 operating plants included in this analysis; 3) a list of proposed projects and those that are under construction at new or expanding plastics plants; and 4) definitions and acronyms used throughout this document.
Last Updated March 1, 2024.

"Feeding the Plastics Industrial Complex"	Read the full report and detailed methods.
info@environmentalintegrity.org	Contact for more detailed data.

Notes

This report relies on state and federal records for 50 plants that manufacture the main chemical ingredients in plastics and that have been built or expanded in the U.S. since 2012. EIP also reviewed the permits and company announcements of proposed new plants and expansions. In terms of the scope of our review, we included in our report's definition of "plastics plants" the manufacturing of most of the major chemical ingredients in plastic products, but not facilities that shape plastic nurdles into final end-use products, like plastic spoons or toys. For a more detailed discussion of our scope and methodology, see Appendix A.

Capacity Information	Capacity information was compiled using government records, company websites, fact sheets, press releases, investor presentations, filings made to the U.S. Securities and Exchange Commission (SEC), and industry trade press, among other sources. Capacity figures are presented in metric tons per year.
Proposed Projects	Information about proposed projects and those that are under construction comes from state permit documents, company press releases, and news sources compiled on oilandgaswatch.org as of November 1, 2023. Where available, we use potential greenhouse gas and criteria air pollutant emissions estimates provided by companies in their Clean Air Act New Source Review permits or permit applications. At expanding plants, these estimates reflect potential allowable emission increases over current permitted levels. At new plants, these estimates reflect the potential allowable emissions. Emissions estimates are presented in short tons per year.
Reported Emissions	Criteria air pollutant and hazardous air pollutant emissions data are from state air emissions inventories; greenhouse gas emissions data are from EPA's Greenhouse Gas Reporting Program. Reported emissions are presented in short tons per year or pounds per year and reflect emissions reported for the 2021 calendar year.
Enforcement and Compliance	Enforcement and compliance data were sourced from the EPA's Enforcement and Compliance History Online database (ECHO). This analysis is limited to Clean Air Act information as of December 4, 2023. Compliance status, formal enforcement actions, and penalty information were sourced from detailed facility reports. Each report contains quarterly compliance status dating back three years. In this report, quarter one runs from October 2020 to December 2020, and quarter 12 runs from July 2023 to September 2023. Formal enforcement actions and associated federal and state penalty data collected for this report follow the same timespan as compliance status data, October 2020 to September 2023.
Subsidies	Subsidy information comes from state records, the Associated Press, and research provided by the nonprofit organization Together Louisiana. This report does not include federal subsidies, nor does it attempt to quantify or verify employment promises made by companies that received subsidies. The facilities and projects included in this report may have received additional incentives from other taxpayer-funded government programs.
Emission Events	Each state has different reporting requirements for unauthorized or unexpected discharges of air pollution. Because of this, event counts and event-related emissions should not be compared between facilities in different states or between states. In Texas, our analysis includes reports that companies filed with the State of Texas Electronic Emissions Reporting System (STEERS) between January 2018 and June 2023. In Louisiana, our analysis includes emergency air incident reports available through the state's Electronic Document Management System (EDMS) for incidents that occurred between January 2018 and April 2023. For more information on how these events are defined and quantified in this report, as well as data sources and caveats, please see the methodology section in Appendix A.
Demographic Estimates	EIP estimated demographics around facilities using data from EPA's Environmental Justice Screening Tool (EJSCREEN) version 2.2 and facility coordinates obtained from government records or EPA's ECHO database. Where needed, coordinates were adjusted to represent the center of a facility. EIP mapped facility locations using ArcGIS Pro 3.0.2 and generated a three-mile buffer for each facility. For facilities without overlapping buffers—i.e. those that are not within three miles of another facility, based on buffer boundaries— demographic estimates were pulled directly from EPA's EJSCREEN 2.2. For facilities with overlapping three-mile buffers—i.e. those that are within three miles of one or more facilities—EIP generated a dissolved buffer for each grouping of facilities. EIP generated a shapefile for each grouping and uploaded the shapefile to EJSCREEN to generate demographic estimates.

Facility Information													Compliance and Enforcement Information (Oct. 2020 – Sept. 2023)						Accidents, Upsets, or Other "Emission Events" (Jan. 2018 – June 2023)*		2021 Reported Emissions										Demographic Information (within 3-mile Radius)					Subsidy Information			
Parent Company	**Plant Name**	**County or Parish**	**State**	**Latitude**	**Longitude**	**New or Expansion**	**Product(s)**	**ECHO Facility Page**	**EPA Air FRS ID**	**EPA GHGRP ID**	**State Facility ID (s)**	**Fenceline Monitoring Potentially Required by EPA (HON, SOCMI, and P&R I Facilities)**	**Clean Air Act Compliance Status (as of Sept. 2023)**	**No. of Quarters Facility was in Noncompliance**	**No. of Quarters with Significant Violations (High Priority Violation)**	**No. of Clean Air Act Enforcement Actions**	**No. of Clean Air Act Penalties Issued**	**Total Value of Clean Air Act Penalties ($)**	**No. of emission events reported**	**Sum of emissions (lbs) from emission events**	**GHGs (short tons/yr)**	**PM2.5 (short tons/yr)**	**NOx (short tons/yr)**	**VOC (short tons/yr)**	**SO2 (short tons/yr)**	**CO (short tons/yr)**	**Benzene (lbs/year)**	**1,3-butadiene (lbs/year)**	**Vinyl Chloride (lbs/year)**	**Chlorine (lbs/year)**	**Estimated population within 3 miles**	**Percent People of Color**	**Percent Low Income**	**Percent People over 64 Years Old**	**Percent under 5 Years Old**	**Subsidies Received Since 2013**	**Subsidy Program**	**Subsidy Source**	**Years Funds Received**
Indorama	Decatur	Morgan	AL	34.6417	-87.0582	expansion	PET, p-xylene, PTA	https://echo.epa.gov/detail	110037574808	1000325	903	yes	Violation Identified	1	0	0	0	$0	1	Unknown	303,242	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	1,448	50%	33%	13%	3%	N/A	N/A	N/A	N/A
LyondellBasell	Clinton	Clinton	IA	41.8083	-90.2958	expansion	ethylene, polyethylene	https://echo.epa.gov/detail	110012169517	1002927	23-01-004		No Violation	0	0	1	1	$3,400,000	Unknown	Unknown	552,064	3.9	701.2	1,916.3	0.6	370.0	39,422.2	12,647.7	Unknown	Unknown	5,767	5%	21%	20%	7%	N/A	N/A	N/A	N/A
Westlake	Calvert City	Marshall	KY	37.0507	-88.3305	expansion	ethylene, chlor-alkali, VCM	https://echo.epa.gov/detail	110027373072	1006621	122899, 2966	yes	No Violation	0	0	3	3	$2,187,500	5	9441	544,803	46.6	366.0	370.5	5.2	372.9	40,824.2	5,347.2	64,030.0	4,838.8	2,769	3%	44%	18%	4%	Unknown	Multiple (G	Kentucky Cabinet for E	2013-2018
BASF	Geismar	Ascension	LA	30.1987	-90.9977	expansion	ethylene oxide, ethylene glycol, other petrochemicals (MDI, acetylen	https://echo.epa.gov/detail	110070834884	1004208	2049	yes	No Violation	0	0	2	0	$0	16	2,977	978,761	123.4	969.6	524.8	11.0	611.3	4,849.2	19.7	239.4	308.4	2,329	44%	32%	8%	5%	$160,365,893	ITE	Louisiana Economic D	2013-2031
Nova Chemicals	Geismar	Ascension	LA	30.2337	-91.0512	expansion	ethylene, propylene	https://echo.epa.gov/detail	110000746337	1002046	5565		No Violation	0	0	1	1	$15,000	12	123756	643,878	49.1	411.3	179.6	98.3	222.9	Unknown	Unknown	Unknown	Unknown	2,749	47%	14%	9%	9%	$141,917,364	ITE	Louisiana Economic D	2013-2026
Westlake	Geismar	Ascension	LA	30.2118	-91.0102	expansion	PVC, EDC, VCM, chlorine, caustic soda	https://echo.epa.gov/detail	110000746328	1004900	1138	yes	No Violation	0	0	0	0	$0	13	40,726	270,192	18.7	159.0	81.9	1.4	87.5	319.8	Unknown	19,487.1	1,783.3	6,161	41%	16%	5%	8%	$138,520,218	ITE	Louisiana Economic D	2013-2031
Shell	Geismar	Ascension	LA	30.1866	-90.9906	expansion	ethylene oxide, ethylene glycol, MEG, alpha olefins, other petrochem	https://echo.epa.gov/detail	110000743394	1001936	1136	yes	No Violation	0	0	2	1	$23,500	13	11,629	1,154,026	50.3	321.8	369.2	4.2	694.2	11.2	Unknown	1.4	43.2	1,445	52%	34%	11%	3%	$144,534,890	ITE	Louisiana Economic D	2013-2029
Indorama	Westlake	Calcasieu	LA	30.1927	-93.3282	new/restart	ethylene, propylene	https://echo.epa.gov/detail	110000748040	1013066	5337		High Priority Violation	12	12	2	0	$0	15	60,864	178,763	6.7	60.4	84.5	1.0	151.8	5,112.4	629.5	Unknown	0.1	13,704	14%	28%	17%	6%	$73,454,212	ITE	Louisiana Economic D	2019-2031
LyondellBasell/Sasol	Lake Charles Complex	Calcasieu	LA	30.2566	-93.2898	expansion	ethylene, polyethylene, ethylene oxide, MEG, alcohols, derivative gly	https://echo.epa.gov/detail	110070879384 (LIP J	1013813, 100582	226602, 3271	yes	No Violation	0	0	1	1	$2,500	17	168157	2,161,342	294.2	1,557.3	1,551.5	53.2	1,777.6	40,130.3	11,642.0	6.6	28,116.9	11,241	15%	29%	20%	7%	$3,490,201,582	ITE	Louisiana Economic D	2013-2030
Westlake	Sulphur (Petro I & II)	Calcasieu	LA	30.1778	-93.3594	expansion	ethylene, styrene, other petrochemicals	https://echo.epa.gov/detail	110043973509	1005564	6164	yes	No Violation	0	0	4	3	$2,250,000	12	24,248	178,260	51.1	771.4	163.7	6.3	358.4	8,195.2	9,149.5	Unknown	50.0	9,379	13%	25%	11%	8%	$136,708,432	ITE	Louisiana Economic D	2013-2026
Westlake/Lotte	Lake Charles	Calcasieu	LA	30.2193	-93.3037	expansion	ethylene, MEG	https://echo.epa.gov/detail	110070227146	1013353	203831, 195519	yes	High Priority Violation	12	12	1	0	$0	3	13,511	769,037	22.9	735.8	95.2	6.6	250.1	1,512.7	1,074.3	Unknown	98.8	10,201	13%	30%	18%	7%	$497,698,725	ITE	Louisiana Economic D	2019-2030
ExxonMobil	Baton Rouge	East Baton Rouge	LA	30.5522	-91.1793	expansion	ethylene, polyethylene, polypropylene	https://echo.epa.gov/detail	110000450011		3519		No Violation	0	0	0	0	$0	6	39,802	Unknown	43.4	153.4	134.0	13.6	164.5	Unknown	Unknown	Unknown	Unknown	27,324	93%	51%	13%	8%	$8,968,352	ITE	Louisiana Economic D	2013-2026
Formosa	Baton Rouge	East Baton Rouge	LA	30.4995	-91.1885	expansion	VCM, PVC	https://echo.epa.gov/detail	110000597444	1006010	288	yes	High Priority Violation	12	12	1	0	$0	6	32,501	365,165	74.0	153.7	103.1	7.1	12.8	1,386.6	Unknown	18,257.1	77,675.2	36,911	95%	62%	13%	6%	$7,003,005	ITE	Louisiana Economic D	2013-2024
Pinnacle Polymers	Garyville	Garyville	LA	30.0689	-90.6043	expansion	polypropylene	https://echo.epa.gov/detail	110000547953		30922		No Violation	0	0	1	1	$300	2	450	Unknown	4.1	5.4	59.7	0.1	3.1	20.0	Unknown	Unknown	Unknown	5,452	61%	46%	19%	4%	$76,075	ITE	Louisiana Economic D	2014-2023
Dow	Plaquemine	Iberville	LA	30.3209	-91.2390	expansion	ethylene, polyethylene, propylene, ethylene oxide, MEG, benzene, st	https://echo.epa.gov/detail	110001244724	1004314	1409		High Priority Violation	12	12	4	3	$3,158,500	9	34,436	2,268,795	424.2	2,493.6	906.5	125.5	1,087.2	13,098.1	4,465.0	27.7	3,731.3	7,060	55%	34%	17%	7%	$229,867,900	ITE	Louisiana Economic D	2013-2028
Shintech	Plaquemine	Iberville	LA	30.2572	-91.1766	expansion	ethylene, PVC, VCM, chlorine	https://echo.epa.gov/detail	110000572675	1004867	126578	yes	No Violation	1	1	4	2	$80,346	11	1,664	996,332	119.7	103.7	98.2	7.5	315.9	1,434.2	733.2	15,610.0	58,887.0	2,228	79%	44%	13%	7%	$533,450,151	ITE	Louisiana Economic D	2013-2031
Shintech	Addis	Iberville/West Baton Rou	LA	30.3259	-91.2617	expansion	PVC	https://echo.epa.gov/detail	110071162323	1004767	83425		No Violation	8	8	2	2	$95,978	0	0	65,693	79.9	19.6	40.8	0.4	55.6	Unknown	Unknown	15,192.1	1,365.9	6,448	45%	25%	14%	6%	$19,509,215	ITE	Louisiana Economic D	2013-2030
Alpek Polyester	Pearl River	Hancock	MS	30.2281	-89.5566	expansion	PET	https://echo.epa.gov/detail	110000602410	1003081	6057		No Violation	0	0	0	0	$0	3	1399.89	62,643	18.0	4.9	40.0	0.3	0.2	Unknown	Unknown	Unknown	Unknown	736	24%	21%	17%	0%	N/A	N/A	N/A	N/A
Shell	Monaca	Beaver	PA	40.6695	-80.3378	new	ethylene, polyethylene	https://echo.epa.gov/detail	110060029115	1013733	775836		High Priority Violation	6	4	2	2	$4,939,336	51	1,603,461	16,419	7.0	10.9	4.6	0.5	6.7	15.4	Unknown	Unknown	Unknown	21,024	6%	20%	23%	5%	$1,650,000,000	Pennsylvan	https://apnews.com/arti	2017-2042
Chevron Phillips	Sweeny Old Ocean	Brazoria	TX	29.0750	-95.7466	expansion	ethylene, polyethylene	https://echo.epa.gov/detail	110056970568	1006967	RN100825249	yes	No Violation	7	7	5	4	$507,265	59	799,981	1,398,307	174.2	1,130.3	476.2	19.9	593.4	14,172.0	13,812.0	Unknown	Unknown	1,702	25%	29%	19%	10%	$99,330,111	313	https://comptroller.texa	2018-2026, 2018-2025
Dow	Freeport	Brazoria	TX	28.9947	-95.4033	expansion	ethylene, polyethylene, propylene, ethylene glycol, chlorine, caustic	https://echo.epa.gov/detail	110008170237	1002040	RN100225945	yes	High Priority Violation	12	12	2	2	$3,004,875	147	1,851,871	5,412,665	327.0	1,508.6	781.0	13.2	1,056.6	29,611.6	5,922.4	9.6	4,574.0	22,484	65%	35%	10%	6%	$393,319,284	313	https://comptroller.texa	2016-2024, 2015-2022, 2
INEOS	Chocolate Bayou	Brazoria	TX	29.2341	-95.1931	expansion	ethylene, polypropylene, propylene, alpha olefins, ethylene oxide	https://echo.epa.gov/detail	110000606933	1004368	RN100238708		High Priority Violation	7	5	2	2	$56,518	54	2,987,759	2,873,726	86.9	991.1	406.6	16.2	364.9	10,175.2	80,440.8	Unknown	Unknown	20	23%	17%	16%	8%	N/A	N/A	N/A	N/A
Olin	Freeport	Brazoria	TX	28.9873	-95.3774	expansion	VCM, EDC, caustic soda, chlorine, hydrochloric acid, salt, sulfuric a	https://echo.epa.gov/detail	110066943605	1011834	RN108772245	yes	No Violation	4	0	2	2	$95,113	31	26,520	2,177,378	135.4	599.7	80.7	2.3	181.3	206.4	Unknown	2,416.4	17,539.8	14,224	82%	53%	11%	6%	N/A	N/A	N/A	N/A
EQUATE	MEGlobal Oyster Creek	Brazoria	TX	28.9714	-95.3361	new	MEG	https://echo.epa.gov/detail	110070435223	1013816	RN108887290		No Data	Unknown	Unknown	Unknown	Unknown	Unknown	1	85	255,192	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	11,936	76%	59%	12%	7%	N/A	N/A	N/A	N/A
Dow	Seadrift	Calhoun	TX	28.5108	-96.7717	expansion	polyethylene, ethylene oxide	https://echo.epa.gov/detail	110007175154	1002967	RN102181526	yes	No Violation	2	1	3	2	$55,475	10	745	833,266	45.7	429.0	705.8	0.1	737.7	28.6	1.4	13.8	Unknown	140	33%	20%	19%	12%	N/A	N/A	N/A	N/A
Formosa	Point Comfort	Calhoun	TX	28.6977	-96.5446	expansion	ethylene, polyethylene, polypropylene, propylene, ethylene oxide, M	https://echo.epa.gov/detail	110018925957	1006691	RN100218973	yes	No Violation	3	3	4	4	$3,210,827	75	2,269,614	5,495,592	196.8	3,048.5	931.2	7.2	1,495.6	16,783.2	60,291.4	62,633.0	6,926.0	503	47%	26%	14%	10%	$68,847,999	313	https://comptroller.texa	2018-2027, 2023-2032
Enterprise	Mont Belvieu	Chambers	TX	29.8573	-94.9122	expansion	propylene	https://echo.epa.gov/detail	110056961480	1006386	RN102323268		High Priority Violation	12	12	7	5	$247,563	139	1,551,984	2,645,345	124.7	767.9	732.3	31.4	771.3	239.2	1,553.4	Unknown	6.0	2,475	22%	13%	15%	9%	$176,343,112	313	https://comptroller.texa	2016-2023, 2023-2032
ExxonMobil	Mont Belvieu	Chambers	TX	29.8742	-94.9122	expansion	polyethylene	https://echo.epa.gov/detail	110000463702	1006274	RN102501020		No Violation	1	0	1	1	$7,500	1	1,075	92,295	31.4	53.8	192.1	0.5	127.2	Unknown	Unknown	Unknown	Unknown	1,895	16%	12%	17%	10%	$48,636,123	313	https://comptroller.texa	2016-2023
REXtac	Odessa	Ector	TX	31.8261	-102.3248	expansion	propylene, polypropylene	https://echo.epa.gov/detail	110039582047		RN103719704		No Data	Unknown	Unknown	Unknown	Unknown	Unknown	0	0	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	16,851	86%	42%	10%	13%	N/A	N/A	N/A	N/A
Eastman Chemical	Longview	Gregg	TX	32.4391	-94.6880	expansion	ethylene, propylene, ethylene oxide	https://echo.epa.gov/detail	110000743704	1007438	RN100219815	yes	High Priority Violation	10	10	5	5	$364,634	49	488,416	2,376,970	120.6	1,503.9	1,592.2	32.9	989.7	24,120.2	29,795.6	Unknown	5,574.0	8,047	73%	45%	14%	5%	N/A	N/A	N/A	N/A
Braskem	La Porte	Harris	TX	29.7040	-95.0799	expansion	polypropylene, polyethylene	https://echo.epa.gov/detail	110000463631	1007574	RN102888328		No Violation	4	0	4	4	$149,535	28	47,201	46,896	3.7	22.1	97.1	0.3	111.7	Unknown	0.4	Unknown	Unknown	29,926	39%	22%	14%	7%	N/A	N/A	N/A	N/A
Chevron Phillips	Cedar Bayou	Harris	TX	29.8260	-94.9219	expansion	ethylene, polyethylene, propylene, 1-hexene, alpha olefins	https://echo.epa.gov/detail	110007177768	1003991	RN103919817		High Priority Violation	12	12	4	3	$3,555,626	91	4,472,483	2,573,742	142.5	566.3	654.6	20.4	459.1	13,265.0	14,817.4	Unknown	0.4	10,139	50%	16%	12%	5%	$119,130,681	313	https://comptroller.texa	2018-2025
ExxonMobil	Baytown Chemical	Harris	TX	29.7498	-95.0215	expansion	polypropylene, alpha olefins, p-xylene	https://echo.epa.gov/detail	110000463178		RN102574803	yes	High Priority Violation	12	12	3	2	$22,388	7	1,639	Unknown	46.3	252.3	726.2	7.2	186.4	18,527.2	1,703.6	Unknown	Unknown	34,308	75%	42%	10%	9%	N/A	N/A	N/A	N/A
ExxonMobil	Baytown Olefins	Harris	TX	29.7563	-95.0110	expansion	ethylene, propylene	https://echo.epa.gov/detail	110000463178	1007542	RN102212925		High Priority Violation	12	12	3	2	$22,388	47	1,281,847	11,035,958	301.9	2,258.2	377.5	21.8	698.7	17,652.8	52,523.8	Unknown	Unknown	45,449	76%	43%	10%	9%	$105,106,304	313	https://comptroller.texa	2016-2023
Indorama	Clear Lake	Harris	TX	29.6258	-95.0616	expansion	ethylene oxide, MEG, acetic acid, VAM	https://echo.epa.gov/detail	110067040703	1006867	RN100227016	yes	High Priority Violation	8	7	4	4	$82,780	17	148,838	850,323	47.0	73.0	82.5	9.0	267.5	126.6	50.2	1.4	Unknown	20,933	41%	17%	14%	6%	N/A	N/A	N/A	N/A
INEOS	Battleground Complex	Harris	TX	29.7184	-95.0858	expansion	polyethylene, polypropylene	https://echo.epa.gov/detail	110038705817	1006264, 100422	RN100229905		High Priority Violation	12	12	4	4	$1,266,255	3	16,955	160,030	12.1	107.9	327.6	2.1	211.2	Unknown	Unknown	Unknown	Unknown	18,151	38%	22%	15%	7%	$23,377,039	313	https://comptroller.texa	2016-2022
Koch INVISTA	Houston	Harris	TX	29.7048	-95.2506	expansion	propylene	https://echo.epa.gov/detail	110000461107	1006275	RN102576063		No Violation	2	1	3	2	$65,252	12	66,298	778,580	48.9	165.4	42.9	25.7	150.4	1,877.4	50.4	Unknown	Unknown	115,293	93%	51%	10%	8%	N/A	N/A	N/A	N/A
Kuraray	Pasadena	Harris	TX	29.6215	-95.0429	expansion	ethylene vinyl alcohol monomer	https://echo.epa.gov/detail	110000751758		RN100212216	yes	High Priority Violation	8	8	2	2	$134,647	4	7889.61	Unknown	2.3	4.6	42.2	0.0	27.5	Unknown	1,167.8	Unknown	Unknown	15,854	36%	19%	13%	6%	N/A	N/A	N/A	N/A
LyondellBasell	Channelview	Harris	TX	29.8295	-95.1180	expansion	ethylene, propylene, butadiene, benzene, propylene oxide, styrene mo	https://echo.epa.gov/detail	110000463212	1002859	RN100542281	yes	No Violation	3	0	6	6	$593,990	68	774,862	2,283,369	192.8	1,109.2	732.1	18.9	2,117.2	29,879.2	164,585.4	Unknown	Unknown	34,808	89%	34%	7%	9%	$11,177,684	313	https://comptroller.texa	2016-2023
LyondellBasell	La Porte	Harris	TX	29.7109	-95.0680	expansion	ethylene, polypropylene, polyethylene, acetic acid, VAM	https://echo.epa.gov/detail	110034641635	1002758	RN100210319		No Violation	1	0	3	3	$3,443,627	33	216,767	1,342,018	35.5	742.6	216.4	11.3	423.8	1,976.0	4,976.0	Unknown	377.2	15,942	37%	22%	14%	8%	$56,802,349	313	https://comptroller.texa	2016-2024, 2019-2028
LyondellBasell	Bayport Complex	Harris	TX	29.6316	-95.0516	expansion	polypropylene	https://echo.epa.gov/detail	110000462892	1006656, 10019	RN100216761		Violation Identified	4	1	2	2	$34,987	3	20,102	93,290	1.0	15.2	105.4	0.1	81.2	0.0	0.0	0.0	0.0	20,590	42%	20%	13%	7%	N/A	N/A	N/A	N/A
TotalEnergies	Bayport Pasadena	Harris	TX	29.6005	-95.0145	expansion	polyethylene	https://echo.epa.gov/detail	110000462847	1001630	RN100909373		High Priority Violation	12	12	1	1	$70,801	5	128,153	41,633	9.7	23.3	82.1	0.2	81.7	0.0	0.0	0.0	0.0	23,607	29%	16%	14%	6%	$46,915,869	313	https://comptroller.texa	2021-2023
BASF/TotalEnergies	Port Arthur	Jefferson	TX	29.9539	-93.8840	expansion	ethylene, propylene	https://echo.epa.gov/detail	110006134691	1006543	RN100216977		No Violation	1	0	1	1	$26,250	21	1,515,055	2,271,881	68.5	714.7	306.8	5.8	603.6	15,896.6	13,069.0	Unknown	Unknown	21,945	58%	40%	15%	7%	N/A	N/A	N/A	N/A
ExxonMobil	Beaumont	Jefferson	TX	30.0695	-94.2292	expansion	polyethylene	https://echo.epa.gov/detail	110009495901		RN100211903		No Violation	0	0	0	0	$0	1	8,091	Unknown	18.2	84.1	487.6	0.5	180.7	0.8	Unknown	Unknown	Unknown	13,215	67%	33%	14%	7%	$55,670,700	313	https://comptroller.texa	2020-2029
Motiva	Port Arthur	Jefferson	TX	29.8875	-93.9638	expansion	ethylene, propylene	https://echo.epa.gov/detail	110000861862	1006891	RN100217389	yes	High Priority Violation	12	12	4	4	$88,887	58	1,175,914	1,109,184	69.6	683.8	166.3	9.2	534.3	22,521.6	2,035.6	Unknown	Unknown	20,725	91%	50%	15%	6%	N/A	N/A	N/A	N/A
TotalEnergies/Borealis	Bayport Port Arthur	Jefferson	TX	29.9620	93.8933	new	ethylene	https://echo.epa.gov/detail	110071046351	1014234	RN109845768		Violation Identified	1	0	0	0	$0	10	9,711,145	628,665	2.6	66.0	6.4	0.5	212.8	Unknown	192.0	Unknown	Unknown	20,772	53%	37%	16%	8%	$76,190,087	313	https://comptroller.texa	2020-2029
LyondellBasell	Corpus Christi	Nueces	TX	27.8101	-97.5915	expansion	ethylene, propylene, fuel products	https://echo.epa.gov/detail	110000465069	1004880	RN100221662	yes	No Violation	0	0	3	2	$3,408,175	19	1,224,849	1,317,755	78.7	776.5	186.7	1.2	235.0	22,614.0	9,278.0	Unknown	Unknown	19,443	67%	33%	10%	7%	$34,536,331	313	https://comptroller.texa	2016-2023
Dow	Orange	Orange	TX	30.0551	-93.7551	expansion	ethylene, polyethylene	https://echo.epa.gov/detail	110017746368	1003382	RN100542711		No Violation	1	0	6	5	$9,752,375	26	302,540	793,170	59.1	625.9	571.6	4.8	431.3	28,010.4	4,890.2	Unknown	1,012.8	6,879	36%	43%	19%	11%	N/A	N/A	N/A	N/A
ExxonMobil/SABIC	Gulf Coast Growth Ventur	San Patricio	TX	27.9302	-97.3235	new	ethylene, polyethylene	https://echo.epa.gov/detail	110070207316	1014210	RN109753731	yes	No Violation	1	0	1	1	$9,327	10	560,803	254,064	15.2	85.5	83.8	0.6	179.8	45,983.2	3,957.8	Unknown	Unknown	11,516	58%	27%	13%	7%	$249,035,698	313	https://comptroller.texa	2022-2031
Occidental/Mexichem	Ingleside	San Patricio	TX	27.8836	-97.2414	expansion	ethylene, VCM, chlorine, caustic soda, EDC	https://echo.epa.gov/detail	110000599807	1001705	RN100211176	yes	No Violation	1	0	1	0	$0	17	84,709	1,972,145	55.8	514.2	69.8	5.8	127.9	1,745.4	40.6	14,998.6	2,505.6	7,014	57%	37%	11%	7%	$84,823,649	313	https://comptroller.texa	2017-2025

*Totals for Louisiana represent emergency air incidents reported between Jan. 2018 and April 2023. For more information, please refer to the Methods section in Appendix A.

Facility Information					2022 Production Capacity (metric tons/yr)												
Parent Company	**Plant Name**	**County or Parish**	**State**	**Product(s)**	**Ethylene**	**Polyethylene**	**Propylene**	**Polypropylene**	**PET**	**PTA**	**PVC**	**VCM**	**EDC**	**Chlorine**	**Caustic Soda**	**Ethylene Oxide**	**Other**
Indorama	Decatur	Morgan	AL	PET, p-xylene, PTA					450,000	745,000							p-xylene: 720,000
LyondellBasell	Clinton	Clinton	IA	ethylene, polyethylene	476,000	485,000											
Westlake	Calvert City	Marshall	KY	ethylene, chlor-alkali, VCM	342,462							590,000					
BASF	Geismar	Ascension	LA	ethylene oxide, ethylene glycol, other petrochemicals (MDI, acetylene, amines, polyol, formic acid, TDI, others)												220,000	
Nova Chemicals	Geismar	Ascension	LA	ethylene, propylene	884,505		51,710										
Westlake	Geismar	Ascension	LA	PVC, EDC, VCM, chlorine, caustic soda							500,000	385,000	550,000	320,000	358,000		
Shell	Geismar	Ascension	LA	ethylene oxide, ethylene glycol, MEG, alpha olefins, other petrochemicals												417,305	alpha olefins: 1,300,000; ethylene glycol: 376,482; MEG: unknown
Indorama	Westlake	Calcasieu	LA	ethylene, propylene	457,675		67,132										
LyondellBasell/Sasol	Lake Charles Complex	Calcasieu	LA	ethylene, polyethylene, ethylene oxi	1,971,655	900000										300000	LAO: unknown; MEG: unkno
Westlake	Sulphur (Petro I & II)	Calcasieu	LA	ethylene, styrene, other petrochemic	1,496,855												
Westlake/Lotte	Lake Charles	Calcasieu	LA	ethylene, MEG	1,000,000												MEG: 920,000
ExxonMobil	Baton Rouge	East Baton Rouge	LA	ethylene, polyethylene, polypropyle	1,000,000	1,206,556	636,844	900,000									
Formosa	Baton Rouge	East Baton Rouge	LA	VCM, PVC							754,959						
Pinnacle Polymers	Garyville	Garyville	LA	polypropylene				589,670									
Dow	Plaquemine	Iberville	LA	ethylene, polyethylene, propylene, e	1,630,665	1,114,000	409,000									320,000	MEG: 211,000; benzene: unkı
Shintech	Plaquemine	Iberville	LA	ethylene, PVC, VCM, chlorine	500,000						3,238,650	1,900,000					chlorine: 1,055,000
Shintech	Addis	Iberville/West Baton Rou	LA	PVC							884,505						
Alpek Polyester	Pearl River	Hancock	MS	PET					430,000								
Shell	Monaca	Beaver	PA	ethylene, polyethylene	1,500,000	1,600,000											
Chevron Phillips	Sweeny Old Ocean	Brazoria	TX	ethylene, polyethylene	1,950,113	1,000,000	394,625										
Dow	Freeport	Brazoria	TX	ethylene, polyethylene, propylene, e	2,666,800	1,270,000	750,000							816,000	880,000		ethylene glycol: unknown
INEOS	Chocolate Bayou	Brazoria	TX	ethylene, polypropylene, propylene,	1,752,000		235,000	463,000									alpha olefins: 540,000; ethyle
Olin	Freeport	Brazoria	TX	VCM, EDC, caustic soda, chlorine, hydrochloric acid, salt, sulfuric acid, bleach								835,000	2,580,000	2,700,000	3,000,000		
EQUATE	MEGlobal Oyster Creek	Brazoria	TX	MEG													MEG: 750,000
Dow	Seadrift	Calhoun	TX	polyethylene, ethylene oxide		664,000										430,000	
Formosa	Point Comfort	Calhoun	TX	ethylene, polyethylene, polypropyle	3,128,573	1,056,000	589,670	745,000			798,000	750,000		910,000		250,000	ethylene glycol: 299,400
Enterprise	Mont Belvieu	Chambers	TX	propylene			1,500,000										
ExxonMobil	Mont Belvieu	Chambers	TX	polyethylene		2,427,000											
REXtac	Odessa	Ector	TX	propylene, polypropylene			300000	270000									
Eastman Chemical	Longview	Gregg	TX	ethylene, propylene, ethylene oxide	650,000		230,000									105,000	
Braskem	La Porte	Harris	TX	polypropylene, polyethylene		40,000		804,000									
Chevron Phillips	Cedar Bayou	Harris	TX	ethylene, polyethylene, propylene, 1	2,433,523	1,190,680	467,200										1-Hexene: 249,476; alpha olef
ExxonMobil	Baytown Chemical	Harris	TX	polypropylene, alpha olefins, p-xylene				818,000									LAO: 350,000; p-xylene: 600,000
ExxonMobil	Baytown Olefins	Harris	TX	ethylene, propylene	4,200,000		934,000										
Indorama	Clear Lake	Harris	TX	ethylene oxide, MEG, acetic acid, VAM												435,000	MEG: 385000; acetic acid: 1,300,000; VAM: 300,000
INEOS	Battleground Complex	Harris	TX	polyethylene, polypropylene		1,196,000		148,000									
Koch INVISTA	Houston	Harris	TX	propylene			658,000										
Kuraray	Pasadena	Harris	TX	ethylene vinyl alcohol monomer													ethylene vinyl alcohol: 58,000
LyondellBasell	Channelview	Harris	TX	ethylene, propylene, butadiene, benz	1,750,000		1,231,179										benzene: unknown; styrene: u
LyondellBasell	Bayport Complex	Harris	TX	polypropylene				737,000									
LyondellBasell	La Porte	Harris	TX	ethylene, polypropylene, polyethyle	1,161,196	500,000	350,000										
TotalEnergies	Bayport Pasadena	Harris	TX	polyethylene		1,025,000											
BASF/TotalEnergies	Port Arthur	Jefferson	TX	ethylene, propylene	1,301,810		544,000										
ExxonMobil	Beaumont	Jefferson	TX	polyethylene		1,700,000											
Motiva	Port Arthur	Jefferson	TX	ethylene, propylene	635,000		340,000										
TotalEnergies/Borealis	Bayport Port Arthur	Jefferson	TX	ethylene	1,000,000												
LyondellBasell	Corpus Christi	Nueces	TX	ethylene, propylene, fuel products	1,138,517		317,515										
Dow	Orange	Orange	TX	ethylene, polyethylene	791,000	270,000											
ExxonMobil/SABIC	Gulf Coast Growth Ventures	San Patricio	TX	ethylene, polyethylene	1,800,000	1,300,000											MEG: 1,100,000
Occidental/Mexichem	Ingleside	San Patricio	TX	ethylene, VCM, chlorine, caustic so	680,389							1,090,000	2,450,000	570,000	676,000		

Parent Company	**Plant Name**	**Ethylene_Source**	**Polyethylene_Source**	**Propylene_Soure**	**Polypropylene_Source**	**PET_Source**	**PTA_Source**	**PVC_Source**	**VCM_Source**	**EDC_Source**	**Chlorine_Source**	**Caustic Soda_Source**	**Ethylene Oxide_Source**	**Other_Source**	**Notes**
Indorama	Decatur					https://www.indoramaventure	https://www.indoramaventures.com/en/worldwide/770/indorama-ventures-xylenes-pta							https://www.indoramaventu	
LyondellBasell	Clinton	https://img.ogj.com/files/base/	https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf												
Westlake	Calvert City	https://api.oilandgaswatch.org/d/95/50/9550582247234978a744e122cadc3524.1660771907.pdf							https://www.icis.com/subscriber/icb/chemicalprofile?commodityId=10197&regionId=10011#_=_						Westlake o
BASF	Geismar												https://www.icis.com/explore/resources/news/2018/02/12/		
Nova Chemicals	Geismar	https://www.novachem.com/locations/geismar-la-usa/		https://www.novachem.com/locations/geismar-la-usa/											
Westlake	Geismar							https://www.mrchub.com/new	https://www.mrchub.com/new	https://www.mrchub.com/new	https://www.mrchub.com/new	https://www.mrchub.com/news/393049-westlake-chemical-restarting-its-pvc-complexes-			
Shell	Geismar												https://www.theadvocate.com/	AO: https://www.shell.us/al	
Indorama	Westlake	https://api.oilandgaswatch.org/d/6b/52/6b528129b4a6459d87		https://edms.deq.louisiana.gov/app/doc/view?doc=10031227											
LyondellBasell/Sasol	Lake Charles Complex	https://api.oilandgaswatch.org	https://api.oilandgaswatch.org/d/fc/e5/fce58f3b532c4579ab0208083e0b2a46.1689887989.pdf										https://www.sasol.com/media-centre/media-releases/sasol-		In January
Westlake	Sulphur (Petro I & II)	https://edms.deq.louisiana.gov/app/doc/view?doc=13086817													
Westlake/Lotte	Lake Charles	https://api.oilandgaswatch.org/d/7c/52/7c5282bfaef64519a77e6aa67b62ca84.1654783370.pdf												https://edms.deq.louisiana.g	
ExxonMobil	Baton Rouge	https://img.ogj.com/files/base/	https://edms.deq.louisiana.gov	https://www.argusmedia.com/-	https://corporate.exxonmobil.com/news/news-releases/2022/1206_exxonmobil-doubles-polypropylene-production-at-baton-rouge										
Formosa	Baton Rouge							https://api.oilandgaswatch.org/d/17/c9/17c96e4fb64b4e8b929c8a0f3ca6bde7.1704830678.pdf							
Pinnacle Polymers	Garyville				https://api.oilandgaswatch.org/d/b7/78/b77875ed7f7c47e88903ad26b74b94df.1685653126.pdf										
Dow	Plaquemine	https://www.opisnet.com/blog	https://planet-tracker.org/wp-c	https://www.argusmedia.com/-/media/Files/sample-reports/argus-propylene-and-derivatives-20210901.ashx?la=ru&hash=1A1A5EF22BE295606D016F9B59E2669D7E74E7A3									https://www.chemanalyst.com	MEG: https://www.atsdr.cd	
Shintech	Plaquemine	https://www.shinetsu.co.jp/en/news/news-release/shintech-announces-plans-for-the-construction-of-ethylene-plant-in-louisiana/						https://www.shintech.com/cgi-	https://www.icis.com/subscriber/icb/chemicalprofile?commodityId=10197&regionId=10011#_=_					https://healthybuilding.net/r	
Shintech	Addis							https://api.oilandgaswatch.org/d/fe/e0/fee0eeaaaeaf470da5d20731307dd2b0.1704831883.pdf							
Alpek Polyester	Pearl River					https://www.alpek.com/wp-content/uploads/2021/06/Alpek-2020-Annual-Report.pdf									
Shell	Monaca	https://files.dep.state.pa.us/Re	https://files.dep.state.pa.us/RegionalResources/SWRO/SWROPortalFiles/Shell/PlanApprovalC/DesignChanges_PlanApp_Redacted_20200214.pdf												
Chevron Phillips	Sweeny Old Ocean	https://img.ogj.com/files/base/	https://www.cpchem.com/loca	https://web.archive.org/web/20230616134432/http://q4live.s22.clientfiles.s3-website-us-east-1.amazonaws.com/128149789/files/doc_financials/annual_report/2018/PSX_2018_FactBookSpreads.pdf ; https://web.archive.org/web/20230616134432/http://q4live.s22.clientfiles.s3-website-us-east-1.amazonaws.com/128149789/files/doc_fi											
Dow	Freeport	https://atlas.eia.gov/datasets/ei	https://planet-tracker.org/wp-c	https://www.bizjournals.com/houston/morning_call/2015/12/dow-opens-massive-production-facility-in-freeport.html							https://www.excelusa.com/pro	https://www.excelusa.com/projects/dow-samsung-chlorine-7-falcon-project			
INEOS	Chocolate Bayou	https://img.ogj.com/files/base/ebm/ogj/document/2015/07/co		https://www.mrchub.com/new	https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf									AO: https://www.ineos.com	
Olin	Freeport								https://commoplast.com/news	https://www.spglobal.com/con	https://www.spglobal.com/con	https://www.spglobal.com/commodityinsights/en/market-insights/latest-news/petrochemi			Formerly D
EQUATE	MEGlobal Oyster Creek													https://www.meglobal.biz/o	
Dow	Seadrift		https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf										https://www.icis.com/explore/resources/news/2010/08/02/		
Formosa	Point Comfort	https://api.oilandgaswatch.org	https://planet-tracker.org/wp-c	https://www.plasticsnews.com	https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf			https://www.spglobal.com/con	https://toxicfreefuture.org/research/pvc-poison-plastic/		https://healthybuilding.net/uploads/files/Chlorine%20&%20		https://www.icis.com/explore/	https://www.atsdr.cdc.gov/t	
Enterprise	Mont Belvieu			https://ir.enterpriseproducts.com/news-releases/news-release-details/enterprise-begins-service-pdh-2-plant											
ExxonMobil	Mont Belvieu		https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf												
REXtac	Odessa			https://www.melitek.com/Ne	https://www.melitek.com/News/2013/REXtac-plans-to-build-integrated-PP-plant-in-Texas										
Eastman Chemical	Longview	https://www.polyestertime.com/eastman-active-process-usa-e		https://www.polyestertime.com/eastman-active-process-usa-ethylene-propylene/									https://www.icis.com/explore/resources/news/2010/08/02/		
Braskem	La Porte		https://planet-tracker.org/wp-content/uploads/2021/07/Stormy		https://www.braskem.com.br/usa/news-detail/braskem-approves-construction-of-delta-the-largest-polypropylene-production-line-in-the-americas-in-la-porte-texas										
Chevron Phillips	Cedar Bayou	https://web.archive.org/web/20	https://web.archive.org/web/20	https://web.archive.org/web/20230616134432/http://q4live.s22.clientfiles.s3-website-us-east-1.amazonaws.com/128149789/files/doc_financials/annual_report/2018/PSX_2018_FactBookSpreads.pdf										https://web.archive.org/web	
ExxonMobil	Baytown Chemical				https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf									AO: https://www.exxonmol	Exxon's Ba
ExxonMobil	Baytown Olefins	https://api.oilandgaswatch.org/d/97/31/9731cb7ed00e4dfdbd		https://www.argusmedia.com/en/news/1950368-exxonmobil-baytown-splitter-fire-contained-update-3											Exxon's Ba
Indorama	Clear Lake												https://www.spglobal.com/con	https://www.spglobal.com/c	Previously
INEOS	Battleground Complex		https://planet-tracker.org/wp-content/uploads/2021/07/Storm		https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf										The polyeth
Koch INVISTA	Houston			https://www.echemi.com/cms/465185.html											Formerly Fl
Kuraray	Pasadena													https://www.kuraray.com/ne	
LyondellBasell	Channelview	https://img.ogj.com/files/base/ebm/ogj/document/2015/07/co		https://www.lyondellbasell.com/en/news-events/corporate--financial-news/lyondellbasell-evaluates-propylene-expansion-project/											
LyondellBasell	Bayport Complex				https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf										
LyondellBasell	La Porte	https://api.oilandgaswatch.org	https://en.kunststoffe.de/a/new	https://www.cftc.gov/sites/default/files/stellent/groups/public/@rulesandproducts/documents/ifdocs/rul120110nymex003.pdf											
TotalEnergies	Bayport Pasadena		https://www.baystar.com/about/												
BASF/TotalEnergies	Port Arthur	https://api.oilandgaswatch.org/d/14/6a/146aea8814a1424bab		https://www.mrchub.com/news/372028-basf-total-shut-steam-cracker-at-port-arthur-texas											Benzene is
ExxonMobil	Beaumont		https://corporate.exxonmobil.com/news/news-releases/2019/0724_exxonmobil-begins-production-on-beaumont-high-performance-polyethylene-line												
Motiva	Port Arthur	https://www.mrchub.com/news/390654-motiva-puts-on-hold		https://www.mrchub.com/news/390654-motiva-puts-on-hold-construction-of-new-cracker-and-petrochemical-plants-in-port-arthur											Formerly Fl
TotalEnergies/Borealis	Bayport Port Arthur	https://www.beaumontenterprise.com/business/article/Baystar-ethane-cracker-starts-up-in-Port-Arthur-16389090.php													
LyondellBasell	Corpus Christi	https://www.lyondellbasell.com/en/news-events/products--te		https://www.lyondellbasell.com/en/news-events/products--technology-news/equistar-to-add-feedstock-flexibility-at-corpus-christi/											
Dow	Orange	https://www.icis.com/explore/	https://planet-tracker.org/wp-content/uploads/2021/07/Stormy-Outlook-Final-v2.pdf												
ExxonMobil/SABIC	Gulf Coast Growth Ventures	https://corporate.exxonmobil.c	https://corporate.exxonmobil.com/news/news-releases/2022/0120_exxonmobil-and-sabic-start-operations-at-gulf-coast-manufacturing-facility											https://corporate.exxonmob	
Occidental/Mexichem	Ingleside	https://api.oilandgaswatch.org/d/3e/ec/3eecf197131544eb9c9fbdd42fa2c1a2.1635199825.pdf							https://www.icis.com/subscrib	https://healthybuilding.net/rep	https://healthybuilding.net/rep	https://occidentalpetroleum.gcs-web.com/node/19971/html			

Facility Information									Project Information					Proposed Capacity or Capacity Increase (metric tons/yr)										Potential to Emit (short tons per year)						
Parent Company	**Plant Name**	**County or Parish**	**State**	**Latitude**	**Longitude**	**New or Expansion**	**Product(s)**	**State Facility ID(s)**	**Project Name**	**Project Description**	**Clean Air Act Permit Status (as of Nov. 2023)**	**Operating Status**	**Expected Completion Year**	**Ethylene**	**Propylene**	**Polyethylene**	**Polypropylene**	**PVC**	**PET**	**VCM**	**MMA**	**MEG or Ethylene Glycol**	**Other**	**GHGs**	**PM2.5**	**NOx**	**VOCs**	**SO2**	**CO**	**HAPs**
Westlake	Calvert City	Marshall	KY	37.0507	-88.3305	Expansion	ethylene, PVC, VCM	122899, 2966	Westlake Calvert City 2020 Expansion Project	The 2020 Expansion Project would allow Westlake Chemical to increase ethylene production by 30 million pounds per year (a 24 percent increase); vinyl production by 542 million pounds per year (a 40 percent increase); and PVC production by 670 million pounds per year (a 50 percent increase) at the three co-located Calvert City facilities.	Final Issued	Under construction	2023/2024	13,608						245,847				890,113	28.4	137.9	60.2	2.3	354.0	1.6
Mitsubishi	Geismar	Ascension	LA	30.2071	-90.9980	New	MMA	234532	Mitsubishi Chemicals Geismar MMA Plant - Initial Construction	Construction of the largest MMA plant in the world, with capacity to produce up to 385,000 tons of methyl methacrylate (MMA) per year. A carbon monoxide/methanol plant and a formalin plant would also be constructed to supply fuel to the MMA plant. The facility will be a major source of toxic air pollutants.	Application Pending	Proposed	2026								385,000			787,133	38.6	129.4	79.3	1.8	526.4	
Shell	Geismar	Ascension	LA	30.1866	-90.9906	Expansion	MEG	1136	Shell Geismar - MEG Capacity Expansion	Installation of an additional ethylene oxide/ethylene glycol unit (EOEG-5), which would add 1,200 thousand tons per year of monoethylene glycol (MEG) capacity.	Final Issued	Proposed	2024									1,200,000		782,905	18.8	100.8	28.3	1.7	130.4	
Westlake	Geismar	Ascension	LA	30.2118	-91.0102	Expansion	EDC	1138	Westlake Vinyls VCM-E Facility - EDC Expansion	Expansion of ethylene dichloride production at the plant. The expansion would increase the production rate from 2 billion pounds per year to 2.605 billion pounds per year. The modification would also replace and remove some equipment.	Application Pending	Proposed	2024										EDC: 274,423	Unknown	0.1	-51.5	7.7	1.1	-32.5	
Westlake	Geismar	Ascension	LA	30.2118	-91.0102	Expansion	EDC	1138	Westlake Vinyls VCM-E Facility - VCM and Chlor-alkali Expansion	Expansion of the chlor-alkali and VCM units by 0.75 and 1.09 million pounds per day, respectively. The chlor-alkali unit uses salt brine from nearby wells to produce chlorine, and the VCM unit produces VCM by reacting chlorine and ethylene.	Awaiting Application	Proposed	2025							180,462			chlor-alkali: 124,171	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Westlake/Lotte	Lake Charles	Calcasieu	LA	30.2193	-93.3037	Expansion	MEG, ethylene	203831, 195519	LACC/Lotte Ethylene Plant Expansion	This ethylene plant expansion would increase annual production capacity by 50%, from 1 million metric tons/year to 1.5 million metric tons/year. The expansion will include the construction of two new cracking furnaces and a new storage tank, along with other modifications to existing infrastructure.	Application Pending	Proposed	2026	500,000										309,530	17.3	-6.1	263.5	3.9	324.1	
Westlake/Lotte	Lake Charles	Calcasieu	LA	30.2193	-93.3037	Expansion	MEG, ethylene	203831, 195519	LACC - Package Boiler 2	Construction and operation of a second package boiler at the LACC Ethylene Plant. The second package boiler would add makeup steam to the process and provide any additional steam required during startup of the LACC ethylene plant or the co-located monoethylene glycol plant owned and operated by Lotte Chemical.	Final Issued	Proposed	2023	Unknown								Unknown		120,279	7.7	36.0	5.5	0.6	38.0	
Shintech	Plaquemine	Iberville	LA	30.2572	-91.1766	Expansion	VCM	126578	Shintech Plaquemine - Ethylene Plant 2 (PEP-2)	Construction of a second 1,610 million pound per year ethylene plant, which would produce polymer-grade ethylene using thermal cracking. The ethylene produced would be used to make PVC on-site.	Application Pending	Proposed	2027	730,284										1,062,954	46.2	121.7	137.8	7.9	475.4	73.8
Shintech	Plaquemine	Iberville	LA	30.2572	-91.1766	Expansion	VCM	126578	Shintech Plaquemine - SPP4 Expansion Project	The SPP4 Expansion Project would manufacture vinyl chloride monomer (VCM), a gas used to make plastics, PVC pipes, wire coatings, and other products. The VCM would be sent to the PVC production unit in SPP1 or SPP3 or transported offsite for sale. The SPP4 Expansion project would increase VCM production by 3,800 million pounds per year.	Application Pending	Proposed	2027							1,723,651				711,769	37.6	68.4	40.4	11.9	272.1	
Formosa	Sunshine	St. James	LA	30.0460	-90.9176	New	ethylene, ethylene glycol, propylene, polyethylene, polypropylene	198351	Formosa Sunshine Project	Construction of a new chemical complex that would be capable of producing 960 thousand tons per year (KTA) of high density polyethylene, 1,040 KTA of low density polyethylene, 660 KTA of polypropylene, and 2,180 KTA of ethylene glycol.	Final Issued	On hold	2024/2029	2,400,000		2,000,000	660,000					2,180,000		13,628,091	339.8	1,242.5	1,667.9	82.9	2,768.9	
Shintech	Addis	West Baton Rouge, Iberville	LA	30.3259	-91.2617	Expansion	PVC	3473, 83425, 227481	Shintech Addis Plant Expansion Project	Projects to expand PVC packaging and warehouse operations in Addis, including construction of a truck yard, empty container yard, and railroad on approximately 13 acres of land.	Awaiting Application	Proposed	2023					Unknown						Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
PTTGCA	Ohio Petrochemical Complex	Belmont	OH	39.9180	-80.7750	New	ethylene, polyethylene	0607135004	PTTGCA Petrochemical Complex - Initial Construction	Construction of a new ethane cracker, two polyethylene units, and supporting infrastructure, including a utilities plant and process units that would provide water, air, nitrogen, steam, and electricity to the petrochemical complex. If constructed, the PTTGCA Petrochemical Complex would be capable of producing 1.5 million tonnes of ethylene, 700 thousand tonnes of high-density polyethylene (HDPE), and 900 thousand tonnes of high- and low-density polyethylene (HDPE/LDPE) every year.	Expired**	On hold	2025	1,500,000		1,600,000								1,785,000	87.0	162.0	382.0	23.0	542.0	36.0
Chevron Phillips	Sweeny Old Ocean	Brazoria	TX	29.0750	-95.7466	Expansion	ethylene	RN100825249	CP Chem Sweeny/Old Ocean - Cracking Furnace Replacement	This project involves construction of a new furnace to replace an existing one, cracking furnace decoking, addition of new fugitive piping components, and other updates to Unit 22. These updates will increase ethylene production.	Application Pending	Proposed	2025	Unknown										523,028	9.4	30.6	19.4	53.7	246.0	
Dow	Freeport	Brazoria	TX	28.9947	-95.4033	Expansion	polyethylene	RN100225945	Dow Freeport - Polyethylene Plant No. 7	Construction of a new polyethylene manufacturing facility, Polyethylene 7.	Final Issued	Proposed	2025			Unknown								70,349	4.0	16.4	53.8	0.3	73.0	
Petrologistics	Alvin PDH	Brazoria	TX	29.2764	-95.1951	New	propylene	RN110931706	PetroLogistics PDH Plant - Initial Construction	Construction of a new propane dehydrogenation (PDH) facility that would use propane feedstock to produce 500,000 tons per year of propylene.	Final Issued	Proposed	2024		500,000									Unknown	86.4	48.3	45.8	62.9	85.0	3.5
Formosa	Point Comfort	Calhoun	TX	28.6977	-96.5446	Expansion	VCM, EDC	RN100218973	Point Comfort EDC/VCM Reactor	Construction of a new ethylene dichloride/vinyl chloride monomer (EDC/VCM) reactor at the existing Point Comfort Plant.	Awaiting Application	Proposed	2023							Unknown			EDC: Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Enterprise	Mont Belvieu	Chambers	TX	29.8573	-94.9122	Expansion	propylene	RN102323268	Enterprise Mont Belvieu - Ethylene Dimerization and Metathesis Unit	Construction of a new ethylene dimerization and metathesis unit that would manufacture 1.1 billion pounds of polymer grade propylene per year.	Awaiting Application	Proposed	2027		498,952									Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Enterprise	Mont Belvieu	Chambers	TX	29.8573	-94.9122	Expansion	propylene	RN102323268	Enterprise Mont Belvieu - MTBV Splitter V	Construction of a new Propane/Propylene Splitter, "MTBV Splitter V," at the Enterprise Mont Belvieu Complex, which would be able to process 45,000 barrels of natural gas liquids into Polymer Grade Propylene (PGP) and propane.	Awaiting Application	Proposed	2024		Unknown									Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Chevron Phillips	Cedar Bayou	Harris	TX	29.8260	-94.9219	Expansion	propylene	RN103919817	Cedar Bayou - C3 Splitter	Construction of a new C3 Splitter, also known as a Propylene Fractionator, capable of processing 1 billion pounds of propylene per year.	Final Issued	Under construction	2023		453,592									Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
ExxonMobil	Baytown Olefins	Harris	TX	29.7563	-95.0110	Expansion	ethylene	RN102212925	ExxonMobil Baytown Olefins - Hydrogen Plant	This hydrogen plant would fuel the olefins plant. The hydrogen would be produced using natural gas feedstock and then the associated emissions will be captured and sequestered. It would produce up to 1 billion cubic feet per day of hydrogen and have the capacity to transport and store 10 million metric tons of CO2 per year. The plant would also produce ammonia.	Awaiting Application	Proposed	2028											Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
ExxonMobil	Baytown Olefins	Harris	TX	29.7563	-95.0110	Expansion	ethylene	RN102212925	ExxonMobil Baytown Olefins - Ethylene Unit Expansion	Construction of a new cracking furnace and associated equipment at ExxonMobil's Baytown Olefins Plant.	Final Issued	Proposed	2024	Unknown										Unknown	15.3	23.6	10.7	1.1	101.1	
ExxonMobil	Baytown Chemical	Harris	TX	29.7498	-95.0215	Expansion	polypropylene	RN102574803	ExxonMobil Baytown Chemical - Polypropylene Expansion	Expansion of polypropylene production capacity by 450,000 tons per year.	Final Issued	Under construction	2023				450,000							Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Kuraray	Pasadena	Harris	TX	29.6215	-95.0429	Expansion	ethylene vinyl alcohol monomer	RN100212216	Kuraray Pasadena - Expansion	Expansion of plant capacity by 5,000 tons per year. This expansion will bring total plant EVOH production capacity to 63,000 tons per year.	Awaiting Application	Proposed	2024										5,000	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
LyondellBasell	Channelview	Harris	TX	29.8295	-95.1180	Expansion	ethylene	RN100542281, RN100	Channelview New Propylene Plant	Construction of a new propylene plant capable of producing 950 million pounds of polymer grade propylene per year.	Awaiting Application	Proposed	2028		430,913									Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
LyondellBasell	Channelview	Harris	TX	29.8295	-95.1180	Expansion	ethylene	RN100542281, RN100	Channelview New Steam Cracking Furnace	Construction of a new electric steam cracking furnace at the Channelview Complex. The technology was developed by Technip Energies; LyondellBasell and Chevron Phillips Chemical are partnering on the design, construction, and operation of the "demonstration" unit, which, according to the companies, could reduce greenhouse gas emissions from the steam cracking process by up to 90 percent.	Awaiting Application	Proposed	Unknown	Unknown										Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Energy Transfer	Nederland	Jefferson	TX	30.0069	-93.9960	New	ethylene	RN111596409	Nederland Ethylene Cracker - Initial Construction	Construction of a new steam cracker that would manufacture ethylene and propylene from ethane.	Draft Issued	Proposed	2026	Unknown										5,102,516	321.0	1,132.0	1,676.0	503.0	4,952.0	
Motiva	Port Arthur	Jefferson	TX	29.8875	-93.9638	Expansion	polyethylene	RN100217389	Motiva Polyethylene Complex - New LLDPE and HDPE Units	Construction of a new polyethylene manufacturing complex, which will produce both linear low density polyethylene (LLDPE) and high density polyethylene (HDPE).	Final Issued	On hold	2024			1,950,000								1,095,295	58.2	275.2	1,867.9	122.9	964.6	
Motiva	Port Arthur Ethane Cracker	Jefferson	TX	29.8833	-93.9583	New	ethylene	RN110498151	Port Arthur Ethane Cracker - Initial Construction	Construction of a new ethylene cracking unit consisting of eight cracking furnaces next to Motiva's Port Arthur Refinery.	Final Issued	On hold	2025	1,900,000										3,311,393	169.2	365.0	425.0	117.6	1,405.4	
Enterprise	Mont Belvieu or Beaumont	Jefferson, Orange, or Chambers	TX	(29.985934, -94.084773), (30.03		New	ethylene	RN101042885, RN102	Enterprise - New Ethane Cracker	Construction of a new ethane cracker unit that would be produce 2 million tons of ethylene per year.	Awaiting Application	Proposed	2027	2,000,000										Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Roehm	Bay City	Matagorda	TX	28.8605	-96.0164	New	MMA	RN111258877	Roehm Bay City MMA Plant - Initial Construction	Construction of a greenfield methyl methacrylate (MMA) plant, which would be capable of producing 250,000 tons of MMA per year from ethylene and natural gas. Construction was expected to commence in the fourth quarter of 2021, with production planned for the fourth quarter of 2023.	Final Issued	Under construction	2024								250,000			281,297	20.7	136.3	136.0	35.2	289.7	
Indorama/Alpek/Far East New C	Corpus Christi Polymers	Nueces	TX	27.8342	-97.4960	New	PET, PTA	RN106631427	Project Jumbo – M&G PET, Desal & Utilities	Construction of a new polyethylene terephthalate (PET) resins manufacturing complex (PET Plant) that will manufacture PET and terephthalic acid (PTA). Process water for the plant will come from an on-site seawater desalination plant.	Final Issued	Under construction/On hold	2025						1,100,000				PTA: 1,300,000	1,164,633	78.6	136.3	202.2	24.0	530.8	76.5
LyondellBasell	Corpus Christi	Nueces	TX	27.8101	-97.5915	Expansion	polyethylene	RN100221662	Equistar Corpus Christi - Polyethylene Plant Initial Construction	Construction of a new "world scale" polyethylene plant at Equistar Chemical's Corpus Christi Complex.	Awaiting Application	Proposed	2028			Unknown								Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Chevron Phillips	Golden Triangle Polymers	Orange	TX	30.0673	-93.7838	New	ethylene, polyethylene	RN110935285	Golden Triangle Polymers Plant - Initial Construction	Construction of a new ethylene cracking unit and two polyethylene units, capable of producing 2 million tons of ethylene and 2 million tons of high-density polyethylene annually.	Final Issued	Under construction	2026	2,000,000		2,000,000								3,891,942	206.5	599.9	1,089.8	163.6	2,171.5	

*Enterprise is planning to build a new ethane cracker at an undetermined location, with three sites proposed in Texas as of November 2023: the Mont Belvieu Complex in Chambers County, the Beaumont Marine West Complex in Jefferson County, and the Beaumont Marine East Facility in Orange County.

**PTTGCA was issued a final Clean Air Act pre-construction permit for the Belmont, Ohio, Petrochemical Complex on Dec. 21, 2018. After two permit extensions, the deadline to begin construction on the plant expired on Feb. 24, 2022. In a Feb. 2022 press release, the company stated that it is in the process of drafting a new application and indicated that the resubmission will be consistent with the company's "ambitious" net-zero emissions goals (see: https://pttgca.com/pttgca-drafting-application-for-modified-oepa-air-permit/).

Definitions

Facility Information	Product(s)	Petrochemicals produced by facilities, including, but not limited to: ethylene, ethylene oxide, ethylene glycol, mono-ethylene glycol (MEG), ethylene vinyl alcohol, polyethylene (PE), propylene, polypropylene (PP), and polyethylene terephthalate (PET).
	ECHO Facility Page	Link to the facility's EPA Enforcement and Compliance History Online detailed facility report.
	EPA Air FRS ID	A unique facility ID managed in EPA's Facility Registry Service.
	EPA GHGRP ID	A unique facility ID managed in EPA's Greenhouse Gas Reporting Program.
	State Facility ID(s)	A unique ID assigned to each facility by a state environmental agency.
	Fenceline Monitoring Potentially Required by EPA (HON, SOCMI, and P&R I Facilities)	Fenceline monitoring for benzene, 1,3-butadiene, and several other hazardous air pollutants may be required by EPA's April 2023 proposed amendments to the National Emission Standards for Hazardous Air Pollutants for facilities that manufacture hazardous organic chemicals (HON), synthetic organic chemicals (SOCMI), and/or a subset of polymer and resin manufacturers (P&R I). Facilities marked 'yes' in this column would be subject to this rule according to EPA records. For a larger list of plants potentially impacted by EPA's proposed fenceline monitoring requirements, see https://www.regulations.gov/document/EPA-HQ-OAR-2022-0730-0091, Appendix C.
Project Information	Clean Air Act Permit Status (as of Nov. 2023)	Clean Air Act permit status defines the Clean Air Act New Source Review pre-construction permit status for a project. Awaiting Application means the company has not yet applied for a permit. Application Pending means the company has applied for a permit, but the state permitting agency has not yet proposed a draft permit for the project. Draft Issued means the state permitting agency has proposed a draft permit for a project but has not yet issued a final permit, and Final Issued means the company has received a final construction permit and may begin construction on the project.
	Operating Status	Projects are classified as Proposed, Under Construction, On Hold, or Operating. Proposed projects have been announced by the company and may have applied for or been issued Clean Air Act pre-construction permits, but they have not started construction. Under Construction projects have been issued a Clean Air Act pre-construction permit and are in the process of being built. On Hold projects are stalled or delayed, according to company announcements, and not yet operational. Operating projects have completed construction and are up and running for commercial purposes.
	Expected Completion Year	Expected completion year is the year a project is expected to begin commercial operations. This is determined using permit documents, subsidy documents, news stories, and company announcements.
Enforcement and Compliance Information	Clean Air Act Compliance Status (as of Sept. 2023)	The facility's compliance status for the Clean Air Act as of September 2023. Compliance determinations such as "Violation Identified" or "High Priority Violation (HPV)" assist the government in tracking resolution of violations through the enforcement process and do not necessarily represent a final adjudication by a judicial or administrative body. In such cases, these characterizations should be considered alleged violations. "Violation Identified" indicates a Federally Reportable Violation (FRV) that has been reported by a state/local delegated authority. The FRV policy is intended for delegated agency use and such classification of state/local reported violations does not apply to EPA alleged violations. EPA has different ways of tracking its compliance and enforcement work. "HPV" designations are made according to EPA guidance. The following criteria can trigger an HPV status for a violation at a Title-V major source or a non-Title-V major source: Failure to obtain a New Source Review (NSR) permit and/or install Best Available Control Technology or Lowest Available Emission Reductions for any new major stationary source or major modifications at a major stationary source; Exceedance of a major stationary source annual emission threshold, as defined in the NSR regulations, by a synthetic minor stationary source; Violation of the any emission limitation, emission standard, or operating parameter that has continued for at least seven days, but not necessarily continuous, according to Title I, Part C or D, of the Clean Air Act and implementing regulations, Standards of Performance for New Sources (NSPS) Part 60, or National Emission Standards for Hazardous Air Pollutants (NESHAP) Parts 61 and 63; Violations of federally enforceable work practices, testing requirements, monitoring requirements, recordkeeping or reporting that substantially interferes with enforcement or determination of a facility's compliance requirements. For more details on Enforcement and Compliance information, visit https://echo.epa.gov/help/reports/dfr-data-dictionary.
	No. of Quarters facility was in Noncompliance with Clean Air Act, Oct. 2020 - Sept. 2023.	The number of quarters (out of 12) the facility was considered in noncompliance (Violation Identified) or had a compliance status of "High Priority Violation" (HPV) under the Clean Air Act, as designated by EPA. Quarterly noncompliance designations should be considered alleged violations.
	No. of Quarters with Significant Violations (High Priority Violation) of Clean Air Act, Oct. 2020 - Sept. 2023.	The number of quarters (out of 12) where the facility was designated to have a compliance status of "High Priority Violation" (HPV) under the Clean Air Act, designated by EPA. Any HPV designation should be considered an alleged violation. HPV indicates the facility has allegedly been out of compliance in a way that may pose a more severe level of concern for the environment.
	No. of Clean Air Act Formal Enforcement Actions, October 2020 - September 2023	Number of Clean Air Act Formal Enforcement Actions brought between Oct. 2020 and Sept. 2023. Note: enforcement actions may address violations that occurred during an earlier time period.
	No. of Clean Air Act Penalties Issued, October 2020 - September 2023	Number of Clean Air Act penalties issued to a facility between Oct. 2020 and Sept. 2023, according to EPA's ECHO database. Note: penalties may correspond with enforcement actions brought during an earlier time period.
	Total Value of Clean Air Act Penalties ($), October 2020 - September 2023	Dollar value of total federal and state/local penalties assessed between Oct. 2020 and Sept. 2023 according to EPA's ECHO database. Note: penalties may correspond with enforcement actions brought during an earlier time period.
Accidents, Upsets, or Other "Emission Events"	No. of emission events reported	Number of accidents, upsets, or other emissions events reported at each facility between January 2018 and June 2023, according to state environmental agencies. Each state has different reporting requirements for unauthorized discharges of air pollution known. Because of this, event counts and event-related emissions should not be compared between facilities in different states or between states. For more information on data sources and caveats, please see the methods section in Appendix A of EIP's report "Feeding the Plastics Industrial Complex."

	Sum of emissions from emission events	Amount of air pollution (in pounds) released at each facility during company-reported accidents, upsets, or other emissions events. For more information on data sources and caveats, please see the methods section in Appendix A of EIP's report "Feeding the Plastics Industrial Complex."
Emissions	GHGs (short tons per year)	Greenhouse gases trap heat in the atmosphere and warm the planet. These include water vapor, carbon dioxide, methane, ozone, nitrous oxide, and chlorofluorocarbons. They are measured in tons of carbon dioxide equivalents (CO2e), meaning total greenhouse gas emissions weighted by each gas' global warming potential relative to the warming potential of the same amount of carbon dioxide over a 100-year time period. Emissions in this column were reported to EPA's Greenhouse Gas Reporting Program for the 2021 calendar year.
	PM2.5 (short tons per year)	Fine particulate matter, or PM2.5, refers to tiny inhalable particles with diameters equal to or less than 2.5 micrometers in size. The particles can consist of a wide variety of chemicals, including metals and organics. They can be released directly from smokestacks, flares, tailpipes, and fires. However, according to the U.S. EPA, most particles form as a result of chemical reactions between sulfur dioxide and nitrogen oxides in the atmosphere. Smaller particles can lodge deeper in the lungs and have been linked to heart and lung disease, premature death, asthma attacks, and more.
	NOx (short tons per year)	Nitrogen oxides include nitrogen dioxide, nitrous acid, and nitric acid. Nitrogen dioxide is used to indicate the presence of the other nitrogen oxides. Breathing high concentrations over a short period of time can trigger asthma attacks and aggravate other respiratory illnesses. Breathing high levels over longer periods of time may contribute to the development of asthma and make people more susceptible to respiratory infections. Nitrogen oxide emissions contribute to the formation of particulate matter and ozone. These pollutants can also harm the respiratory system and have been linked to other illnesses.
	VOCs (short tons per year)	Volatile organic compounds (VOCs) are a suite of organic chemical compounds that evaporate easily and don't readily dissolve in water. They are found in both indoor and outdoor air and can come from a number of solid and liquid sources, including household products and industrial direct emissions. Under certain conditions outdoors, VOCs contribute to the formation of smog.
	SO2 (short tons per year)	Sulfur dioxide (SO2) is a type of sulfur oxide (SOx). Short-term exposure to high concentrations can harm the human respiratory system and make it difficult to breathe. SO2 emissions can also contribute to the formation of particulate matter, another air pollutant that can cause breathing and health problems at high enough concentrations. Sulfur dioxide emissions are regulated under state and federal laws.
	CO (short tons per year)	Carbon monoxide is a colorless, odorless gas that reduces the amount of oxygen that can be transported in the blood stream. Carbon monoxide can be fatal at high concentrations.
	Benzene (pounds per year)	Benzene is a colorless, sweet-smelling, and highly flammable liquid that evaporates rapidly when exposed to air. It occurs naturally in petroleum and is commonly used in petrochemical manufacturing. Acute exposure can cause dizziness, headaches, and respiratory tract irritation, and it is a known human carcinogen.
	1,3-butadiene (pounds per year)	1,3-butadiene (in pounds per year) is a colorless gas used to produce synthetic rubber and other chemicals. Acute exposure can cause eye, ear, nose, and throat irritation and chronic exposure has been linked to increased risk of cardiovascular disease and leukemia.
	Vinyl Chloride (pounds per year)	Vinyl chloride (in pounds per year) is a colorless, highly flammable gas used to produce PVC plastic. Acute exposure can cause dizziness, headaches, and giddiness and chronic exposure is associated with an increased risk of liver disease and cancer.
	Chlorine (pounds per year)	Chlorine (in pounds per year) is a greenish-yellow gas with a strong odor. It is widely used as a disinfectant, to treat water, and to produce PVC plastic and other chemical products. It can irritate the eyes, upper respiratory tract, and lungs at low levels of exposure and may cause chest pain, vomiting, and pulmonary edema at high exposure levels.
	Potential to Emit	The total amount of a pollutant that could be emitted from an emission source operating at maximum design capacity, after accounting for reductions required by federally enforceable pollution controls. Potential air emissions from a proposed project reflect the potential net emission increases from the new project, as documented in the most recent permit documents. They do not reflect actual emissions but are the best estimate of potential emissions from a plant or expansion that is not yet operating.
Demographic Information (Within 3-Mile Radius)	Estimated Population within 3 miles	Estimate of the total population living within 3 miles of a facility. The facility location is based on a single point identified in government records or EPA's ECHO database. Where needed, coordinates were adjusted to represent the center of a facility. Demographic information for individual facilities came directly from EJSCREEN's Application Program Interface (API). EJSCREEN relies on census block group data from the U.S. Census Bureau's American Community Survey (ACS) five-year estimates covering 2017 through 2021.
	Percent People of Color	The percent of individuals living within 3 miles of a facility who self-identify as having a race other than white alone and/or list their ethnicity as Hispanic or Latino.
	Percent Low-Income	The percent of the population living within 3 miles of a facility that have household income below or equal to twice the federal poverty level.
	Percent People over 64 Years Old	The percent of the total population living within 3 miles of a facility who are over 64 years old.
	Percent under 5 Years Old	The percent of the total population living within 3 miles of a facility who are under 5 years old.
Subsidy Information	Subsidies Received Since 2013	The dollar value of state/local subsidies or tax breaks awarded to a facility since 2013.
	Subsidy Program	The government tax incentive program through which a company and/or facility receives subsidies or tax breaks.
	Subsidy Source	Subsidy program and data source for subsidy information.
	Years Funds Received	Timespan for which a government subsidy/tax break program provides funds for a given company/facility from 2013 onward.

Acronyms

EDC	ethylene dichloride
LAO	linear alpha olefins
MDI	methylene diphenyl diisocyanate
MEG	monoethylene glycol
MMA	methyl methacrylate
PET	polyethylene terephthalate
PTA	purified terephthalic acid

PVC	polyvinyl chloride
TDI	toluene diisocyanate
VAM	vinyl acetate monomer
VCM	vinyl chloride monomer