Peak start-up
This year will be the biggest on record for ethylene cracker openings in the US.

COMPANY	LOCATION	ETHYLENE CAPACITY (1,000 METRIC TONS/YEAR)	DERIVATIVES	REMARKS
Dow	Freeport, Texas	1,500	PE, elastomers, PDH	Started operating in the third quarter of 2017.
Occidental Chemical and Orbia	Ingleside, Texas	550	Vinyls	Was the first major project of the shale era to come to completion.
Total 2017 2,050				
Chevron Phillips Chemical	Baytown and Old Ocean, Texas	1,500	PE	Was the first of the wave of project announcements in 2011.
Exxon M obil	Baytown and Mont Belvieu, Texas	1,500	PE	Feeds new PE plants in Mont Belvieu, Texas, dedicated to the export market.
Total 2018		3,000		/
Formosa Plastics	Point Comfort, Texas	800	PE, PDH, PP	Cracker and three new PE plants were running by the end of 2020.
Sasol	Lake Charles, Louisiana	1,500	PE, EO, EG, alcohols	Sasol sold 50% of the cracker and its new PE plants to Lyondell-Basell Industries in 2020.
Westlake Chemical and Lotte Chemical	Lake Charles, Louisiana	1,000	EG	Started up on time.
Total 2019		3,300		
Dow	Freeport, Texas	500	EG	Brought its existing plant's capacity to 2 million metric tons per year, making it the largest ethylene cracker in the world.
Shintech	Plaquemine, Louisiana	500	Vinyls	Meant to back integrate half the firm's existing vinyl production.
Total 2020		1,000		
Indorama Ventures	Lake Charles, Louisiana	440	EG	Was set to open in 2020 but was delayed until November 2021 because of a lightning strike.
Total 2021		440		
ExxonMobil and Sabic	San Patricio County, Texas	1,800	PE, EG	Companies announced start-up in January 2022, just over 2 years after construction began.
Shell Chemical	Monaca, Pennsylvania	1,500	PE	Company affirmed in February that start up is this year.
Total and Borealis	Port Arthur and Pasadena, Texas	1,000	PE	PE unit is scheduled to start-up in the third quarter of this year.
Total 2022		4,300		
POTENTIAL FUTURE PROJECTS				
Chevron Phillips Chemical and QatarEnergy	US Gulf Coast	2,000	PE	Companies expect a final investment decision by the end of this summer.
FG LA	St. James Parish, Louisiana	n.d.	PE, EG, PP	The US Army Corps of Engineers ordered a thorough review of the project in 2021.
Motiva Enterprises (a subsidiary of Saudi Aramco)	US Gulf Coast	n.d.	Aromatics, PE	Said to have been shelved, according to news reports.
PTTGC	Belmont, Ohio	1,500	n.d.	Company is preparing new air permits.

Sources: Company documents, C&EN research. **Note:** EG means ethylene glycol, EO means ethylene oxide, PDH means propane dehydrogenation, PE means polyethylene, PP means polypropylene, and n.d. means not determined.