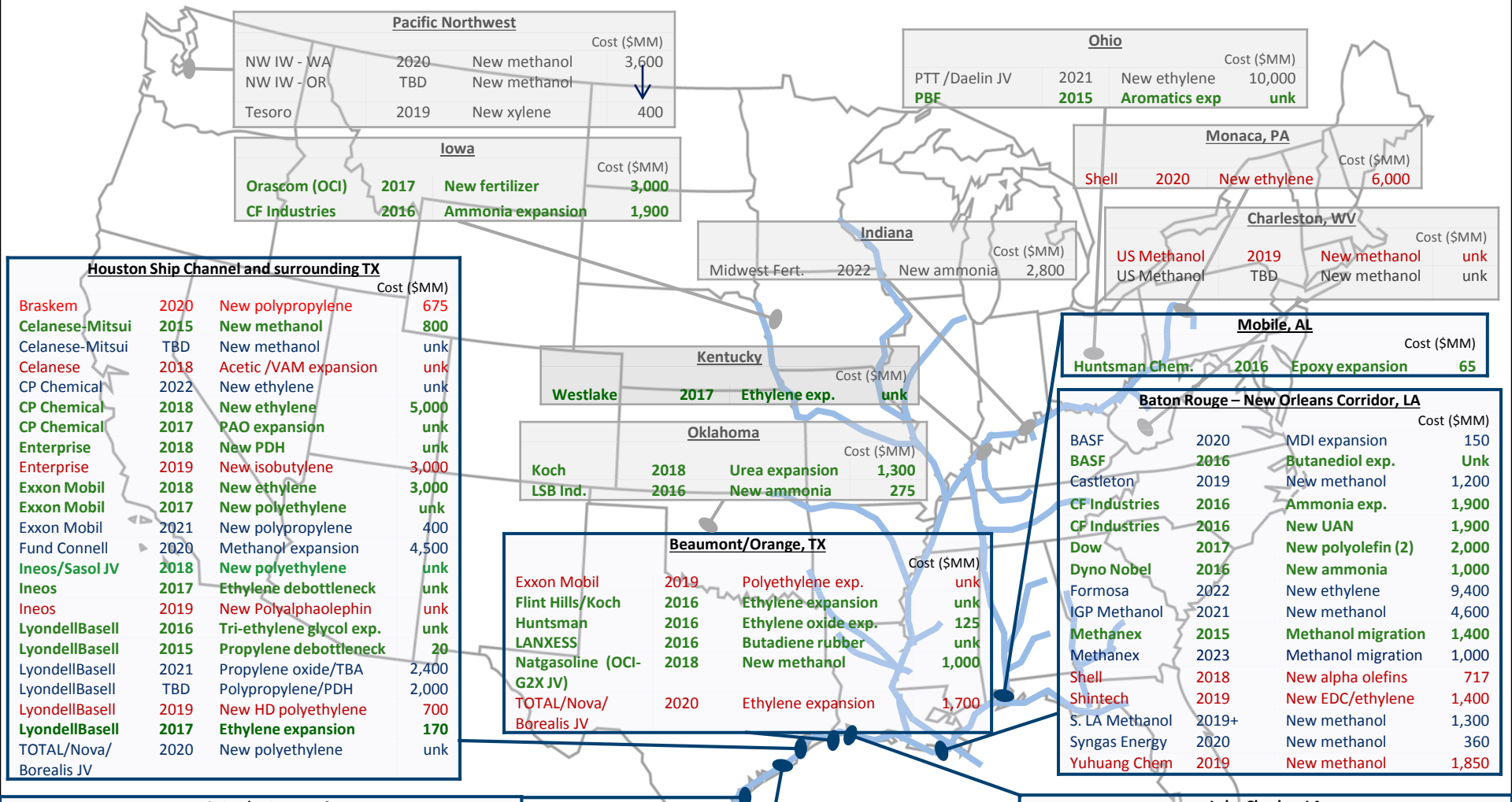
$135+ Billion of U.S. Petrochemical Investments*



Pacific Northwest

			Cost ($MM)
NW IW - WA	2020	New methanol	3,600
NW IW - OR	TBD	New methanol	↓
Tesoro	2019	New xylene	400

Iowa

			Cost ($MM)
Orascom (OCI)	**2017**	**New fertilizer**	**3,000**
CF Industries	**2016**	**Ammonia expansion**	**1,900**

Ohio

			Cost ($MM)
PTT /Daelin JV	2021	New ethylene	10,000
PBF	**2015**	**Aromatics exp**	**unk**

Monaca, PA

			Cost ($MM)
Shell	2020	New ethylene	6,000

Indiana

			Cost ($MM)
Midwest Fert.	2022	New ammonia	2,800

Charleston, WV

			Cost ($MM)
US Methanol	2019	New methanol	unk
US Methanol	TBD	New methanol	unk

Houston Ship Channel and surrounding TX

			Cost ($MM)
Braskem	2020	New polypropylene	675
Celanese-Mitsui	**2015**	**New methanol**	**800**
Celanese-Mitsui	TBD	New methanol	unk
Celanese	2018	Acetic /VAM expansion	unk
CP Chemical	2022	New ethylene	unk
CP Chemical	**2018**	**New ethylene**	**5,000**
CP Chemical	**2017**	**PAO expansion**	**unk**
Enterprise	**2018**	**New PDH**	**unk**
Enterprise	2019	New isobutylene	3,000
Exxon Mobil	**2018**	**New ethylene**	**3,000**
Exxon Mobil	**2017**	**New polyethylene**	**unk**
Exxon Mobil	2021	New polypropylene	400
Fund Connell	2020	Methanol expansion	4,500
Ineos/Sasol JV	**2018**	**New polyethylene**	**unk**
Ineos	**2017**	**Ethylene debottleneck**	**unk**
Ineos	2019	New Polyalphaolephin	unk
LyondellBasell	**2016**	**Tri-ethylene glycol exp.**	**unk**
LyondellBasell	**2015**	**Propylene debottleneck**	**20**
LyondellBasell	2021	Propylene oxide/TBA	2,400
LyondellBasell	TBD	Polypropylene/PDH	2,000
LyondellBasell	2019	New HD polyethylene	700
LyondellBasell	**2017**	**Ethylene expansion**	**170**
TOTAL/Nova/ Borealis JV	2020	New polyethylene	unk

Kentucky

			Cost ($MM)
Westlake	**2017**	**Ethylene exp.**	**unk**

Oklahoma

			Cost ($MM)
Koch	**2018**	**Urea expansion**	**1,300**
LSB Ind.	**2016**	**New ammonia**	**275**

Mobile, AL

			Cost ($MM)
Huntsman Chem.	**2016**	**Epoxy expansion**	**65**

Baton Rouge – New Orleans Corridor, LA

			Cost ($MM)
BASF	2020	MDI expansion	150
BASF	**2016**	**Butanediol exp.**	**Unk**
Castleton	2019	New methanol	1,200
CF Industries	**2016**	**Ammonia exp.**	**1,900**
CF Industries	**2016**	**New UAN**	**1,900**
Dow	**2017**	**New polyolefin (2)**	**2,000**
Dyno Nobel	**2016**	**New ammonia**	**1,000**
Formosa	2022	New ethylene	9,400
IGP Methanol	2021	New methanol	4,600
Methanex	**2015**	**Methanol migration**	**1,400**
Methanex	2023	Methanol migration	1,000
Shell	2018	New alpha olefins	717
Shintech	2019	New EDC/ethylene	1,400
S. LA Methanol	2019+	New methanol	1,300
Syngas Energy	2020	New methanol	360
Yuhuang Chem	2019	New methanol	1,850

Beaumont/Orange, TX

			Cost ($MM)
Exxon Mobil	2019	Polyethylene exp.	unk
Flint Hills/Koch	**2016**	**Ethylene expansion**	**unk**
Huntsman	**2016**	**Ethylene oxide exp.**	**125**
LANXESS	**2016**	**Butadiene rubber**	**unk**
Natgasoline (OCI-G2X JV)	**2018**	**New methanol**	**1,000**
TOTAL/Nova/ Borealis JV	2020	Ethylene expansion	1,700

Corpus Christi/Point Comfort, TX

			Cost ($MM)
Exxon-SABIC JV	2020	New ethylene/derivatives	10,000
Formosa	2018	New HD polyethylene	5,000
Formosa	2018	New LD polyethylene	1,700
Formosa	2018	New ethylene	↓
Formosa	2020-21	New PDH	
LyondellBasell	**2017**	**Ethylene expansion**	**350**
M&G Group	2018+	New PET/PTA	1,000
Oxy/Mexichem	**2017**	**New ethylene**	**1,500**

Freeport – Old Ocean, TX

			Cost ($MM)
BASF-Yara	**2018**	**New ammonia**	**600**
CP Chemical	**2017**	**New polyethylene**	**6,000**
Dow	**2016**	**New PDH**	**6,000**
Dow	**2017**	**New ethylene**	↓
Dow	**2017**	**Polyethylene exp.**	
Dow/MEGlobal JV	2019	Monoethylene Glycol	1,100

Lake Charles, LA

			Cost ($MM)
WLK/Lotte JV	2019	New ethylene/MEG	3,000
Dow	**2015**	**Ethylene expansion**	**1,060**
LCM	2021	New methanol	3,800
Indorama	2018	Ethylene restart	175
G2X	2018+	Methanol-to-gasoline	1,600
Sasol	2019	New ethylene	11,000
Sasol	2019	New polyethylene	
Westlake	**2016**	**Ethylene expansion**	**330**

**Notes: Date reflects anticipated year in-service, red font reflects construction in progress, green online, unk=unknown*

Sources: ICIS, Company announcements, Kirby Corp.