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# Resins overview

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## North America capacity wave 7.1 MMT expected to come on line 2019 - 2023

	Company	Location	Country	LDPE	LLDPE	HDPE	TBA	Startup	Comments
2019	Sasol	Lake Charles, LA	United States		470			Q1 2019	50% op rate – ethylene avail
	Exxon Mobil	Beaumont, TX	United States		650			Q3 2019	Started July
	Formosa Plastics Corp	Point Comfort, TX	United States			400		Q3 2019	Sept start – hdpe / lldpe
	Formosa Plastics Corp	Point Comfort, TX	United States	400				Q2 2020	Delayed start up
	Equistar	Laporte, TX	United States			500		Q1 2020	December + Q1 ramp up
	Sasol	Lake Charles, LA	United States	420				Q2 2020	Start delayed by fire
2021+	Shell	Monaca, Pa	United States		500	1000		Q4 2021	under construction
	Gulf Coast Growth Ventures*	Corpus Christi, Texas	United States				1300	Q2 2022	FID Made June 2019
	Bayport Polymers	Bayport, Tx	United States			625		Q3 2022	Delay from 2021
	Nova Chemical	Sarnia, ON	Canada		450			Q3 2022	FID Made: Adv. Sclairtech
	Dow	US Gulf Coast	United States		600			2022	FID Not Made
	PTTGC Daelim	Dilles Bottom, OH	United States		900	700			FID Not Made
	FG LA LLC	Louisiana P1	United States		400	400			FID Not Made; waiting on permit
	FG LA LLC	Louisiana P2	United States	400		400			FID Not Made; waiting on permit
<b>Totals, 000s MT</b>				<b>1220</b>	<b>3970</b>	<b>4025</b>	<b>1300</b>	<b>10515</b>	

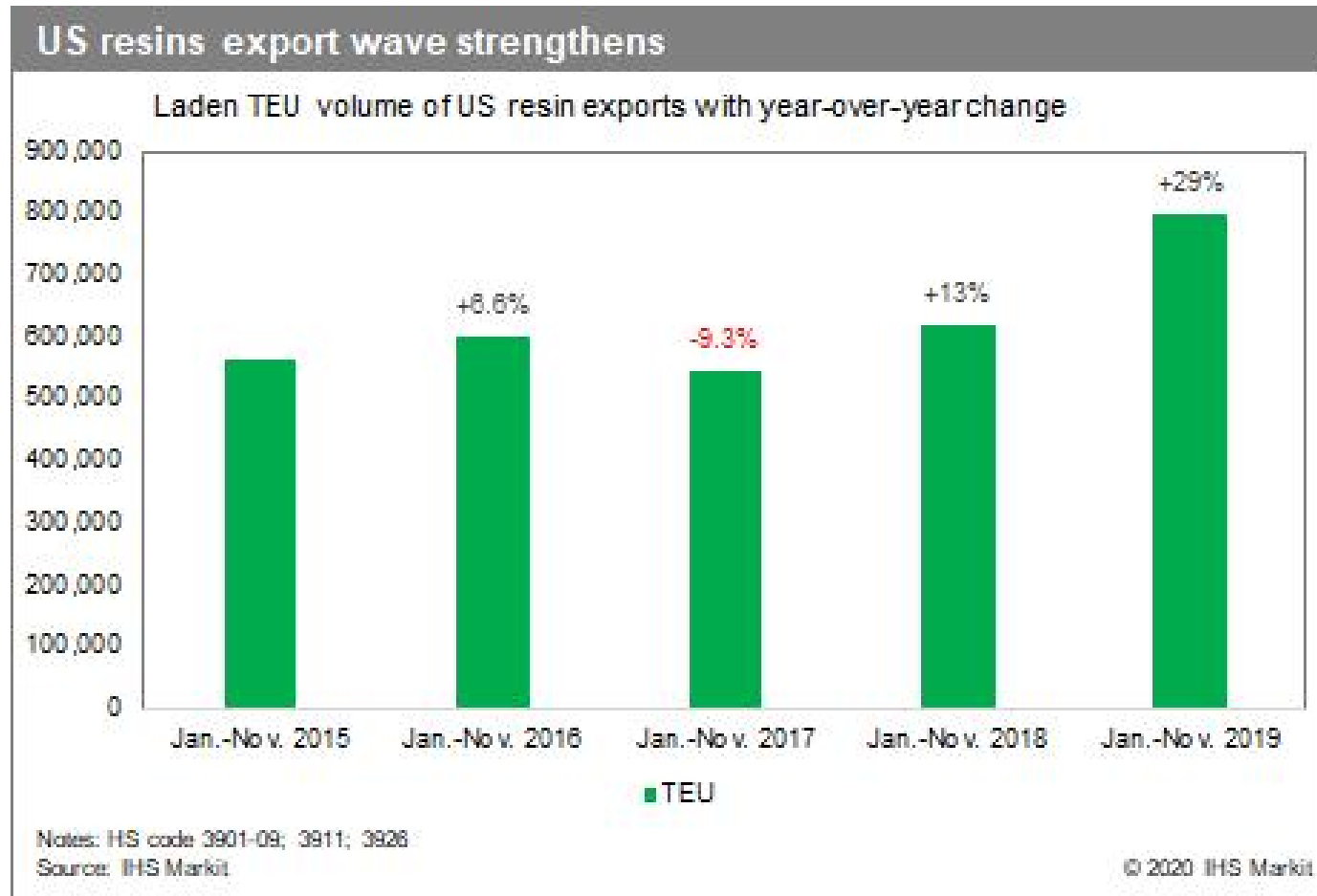
\* Sabic and Exxon Mobil joint venture

**LDPE** - Low Density Polyethylene Resins  
**LLDPE** - Linear low-density polyethylene  
**HDPE** - High-density polyethylene  
**TPA** – Thermoplastic Acrylics  
 Numbers are in 000s of metric tons

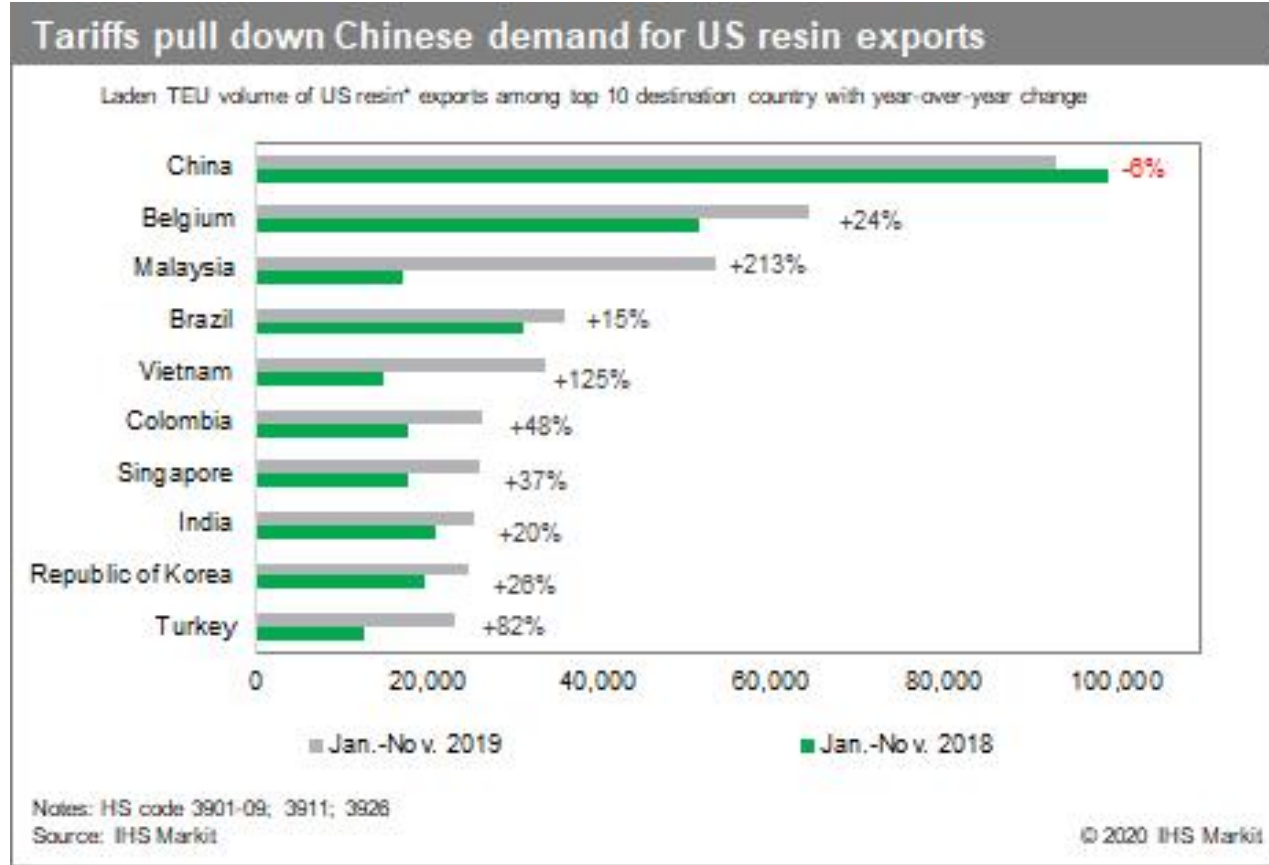
## Resins market development

- Over the next five years as of late 2019, more than 7 million metric tons of polyethylene production capacity will come online in the United States, according to IHS Markit research.
- Comparatively, about 4.2 million metric tons of US capacity was added to the market between 2014 and 2018.
- Investments in plants that produce resins and other plastics, used in a variety of manufacturing and consumer packaging materials, are growing rapidly with the expansion of fracking in the Gulf and other regions of the U.S.
- An abundance of low-cost natural gas gives the US a decided advantage over its competitors in the export market
- Since the preferred method of shipment is in [25-kilogram](#) (55-pound) bags of plastic pellets, which fit nicely into containers, much of the projected growth in exports will be carried by liner companies with weekly services to all three US coasts
- Eight polyethylene plants will be opened in Texas and Louisiana in 2018-2020, and 11 more are scheduled for completion after 2021 in North America, several of which will be located along the [Gulf Coast](#).
- Domestic market is saturated meaning that a larger percentage of incremental production will be for export

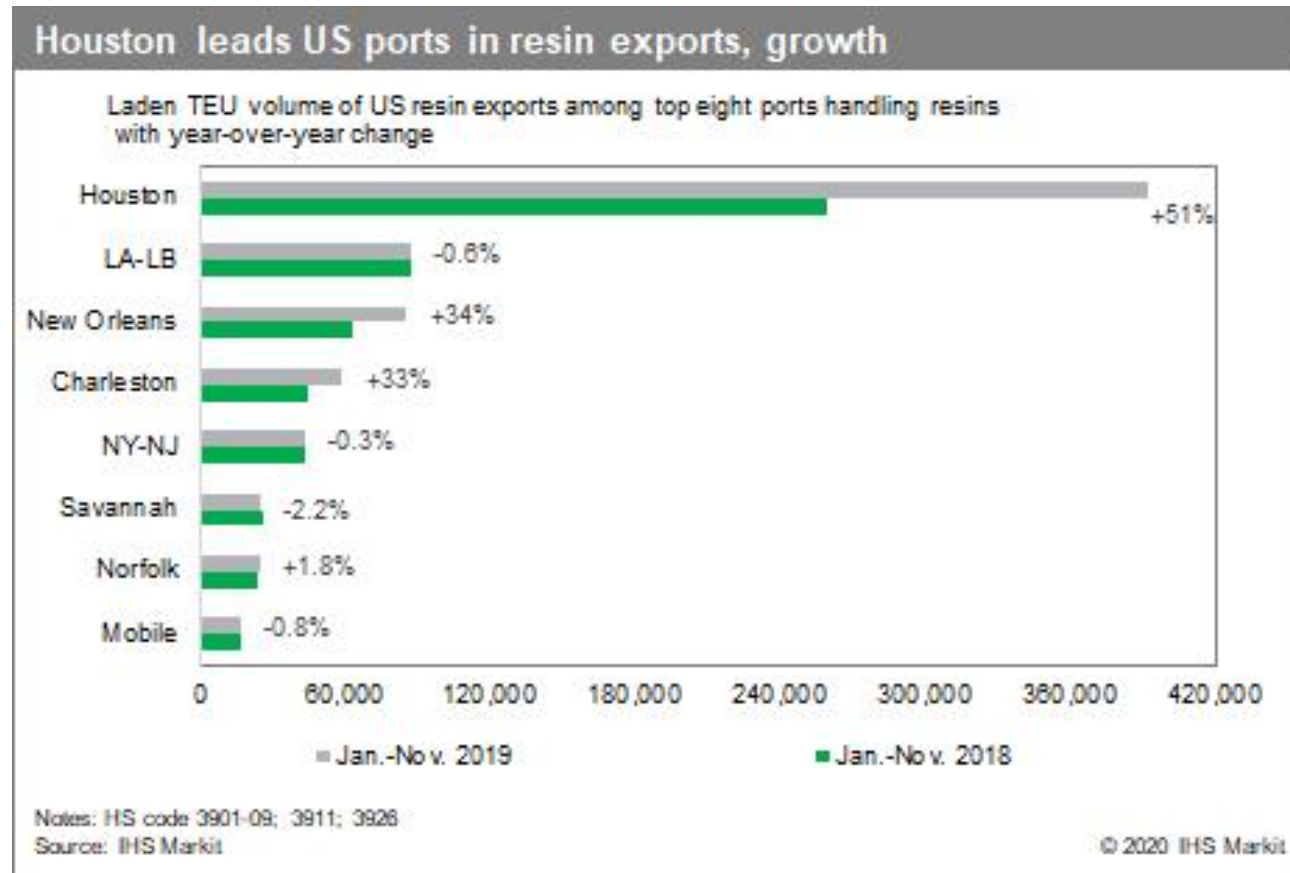
# The long-predicted Resins Boom has finally begun



## Diversified destinations for US resins exports



# Houston remains the dominant port of export but shippers remain concerned about capacity and are looking for other outlets



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