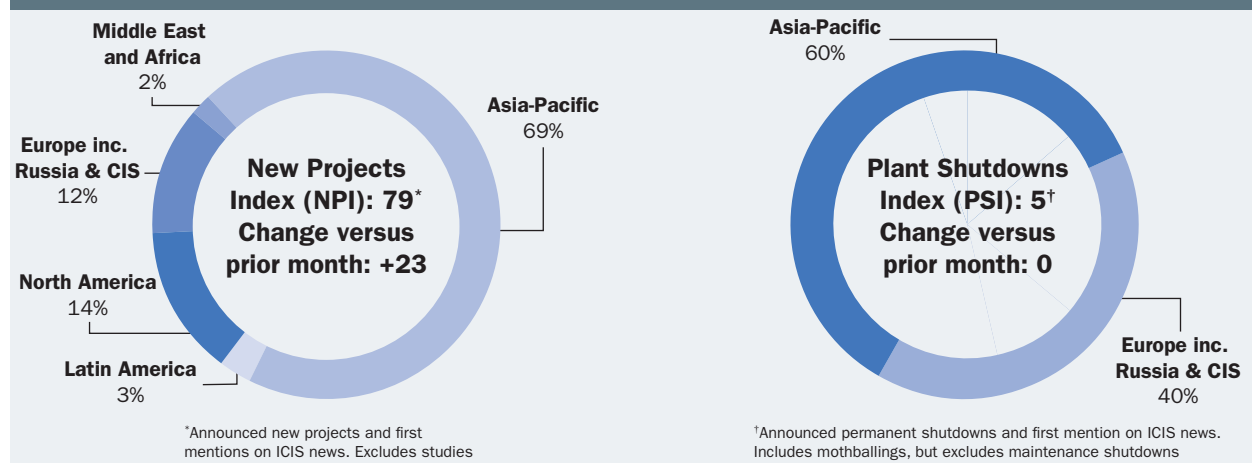


NEW PROJECTS AND PERMANENT PLANT SHUTDOWNS

1-7 DECEMBER, 2012

NEW PROJECTS								
Company	Location	Product	Capacity*	Process	Contractor	Cost	Start-up	Status
BP Biofuels	Edeia, Goais, Brazil	ethanol	(x) 185,000; - 370,000T	-	-	\$350m	end 2014/ early 2015	P
Braskem Idesa	Coatzacoalcos, Veracruz, Mexico	low density polyethylene (LDPE)	300,000	LyondellBasell Industries	ICA Fluor Daniel /Maire Technimont / Odebrecht/ Technip	\$4.5bn	Jul-15	E
Dow Chemical/Mitsui	Freeport, Texas, US	ethylene dichloride	-	-	-	-	Mid-2013	P
DuPont Danisco Cellulosic Ethanol	Nevada, Iowa, US	ethanol	90,800	-	KBR	\$200m	Mid-2014	C
Huadian Yulin Natural Gas Chemical	Yulin, Shaanxi, China	methanol	600,000	-	-	-	Dec-12	C
Indorama Eleme Petrochemicals (IEPL)	Port Harcourt, Nigeria	ammonia	2,300/day	-	Daewoo/Toyo Engineering	-	Q4 2015	E
		urea	4,000/day	-	Daewoo/Toyo Engineering	-	Q4 2015	E
Lanxess	Changzhou, Jiangsu, China	ethylene-propylene-diene terpolymer	160,000	-	Foster Wheeler	€235m	2015	U
MEGlobal	Fort Saskatchewan, Alberta, Canada	mono ethylene glycol (MEG)	(x)	-	-	-	-	P
Mexichem	Pajaritos, Mexico	ethylene	200,000	-	-	-	2015?	S
Nizhnekamskneftekhim JSC	Nizhnekamsk, Russia	polyethylene	600,000	-	-	-	2015/2016	E
ONGC Mangalore Petrochemicals – (OMPL)	Mangalore, Karnataka, India	benzene	270,000	-	Larsen & Toubro	-	End May 2013	D
		paraxylene	920,000	Honeywell UOP	Larsen & Toubro	\$600m	End May 2013	D
Reliance Industries (RIL)	Jamnagar, Gujarat, India	MEG	750,000	-	Jacobs	-	End 2015	E
Sasol North America	Lake Charles, Louisiana, US	ethylene	1.5m	-	-	\$5bn	2017	E
Shanghai Petrochemical Co (SPC)	Shanghai, China	methyl tertiary butyl ether (MTBE)	100,000	-	-	-	Dec-12	C
Tianjin Bohai Chemical Group – Tianjin Soda Plant	Tianjin, China	butanol	85,000	LP Oxo	-	-	-	E
		ethylhexanol	140,000	LP Oxo	-	-	-	E

NEW PROJECTS AND PLANT SHUTDOWNS INDEXES, SEPTEMBER – NOVEMBER 2012



Notes: *Capacity: figures given in tonnes/year; tonnes/day are converted by multiplying by 330. (x) = expansion; T = total capacity including expansion. Start-up: Dates given are for planned start-up. H1 = 1st half year; H2 = 2nd half year; Q1 = 1st quarter; Q2 = 2nd quarter; Q3 = 3rd quarter; Q4 = 4th quarter. Status: S = study; P = planned; A = approval; E = engineering; U = under construction; C = completed; D = delayed.