

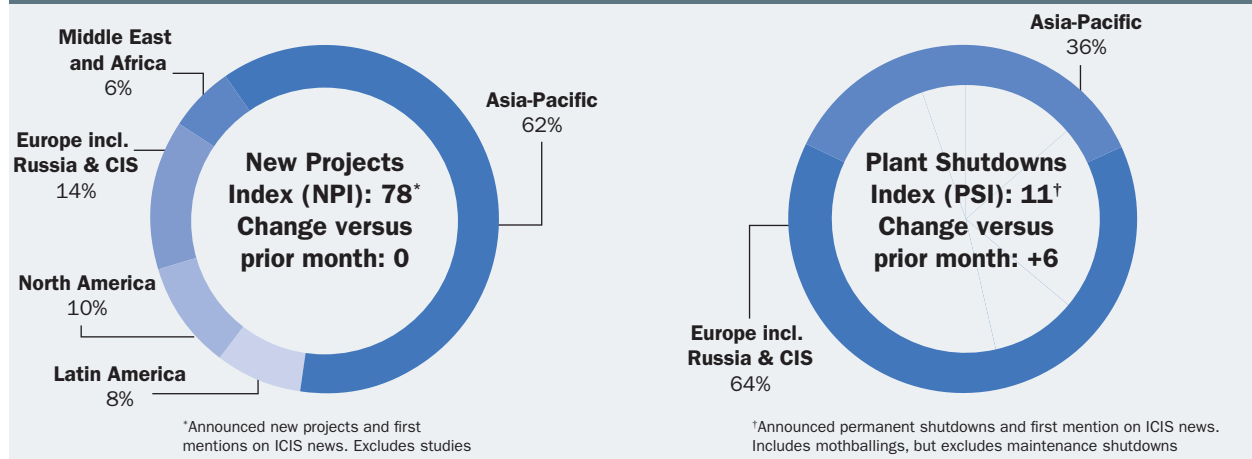


Getting ready for  
mega-changes  
SUPPLEMENT P24

## NEW PROJECTS AND PERMANENT PLANT SHUTDOWNS 2-8 FEBRUARY, 2013

| NEW PROJECTS                          |   |                            |                      |                      |                              |      |          |        |
|---------------------------------------|---|----------------------------|----------------------|----------------------|------------------------------|------|----------|--------|
| Company                               | Location                                    | Product                    | Capacity*            | Process              | Contractor                   | Cost | Start-up | Status |
| Anhui Liuguo Chemical                 | Tongling, Anhui, China                      | ammonia                    | 280,000              | -                    | -                            | -    | Feb 2013 | C      |
| Dow Chemical                          | Freeport, Texas, US                         | polypropylene              | 750,000              | -                    | -                            | -    | 2015     | S      |
| Luoyang Petrochemical General Factory | Luoyang, Henan, China                       | polypropylene              | 140,000              | -                    | -                            | -    | Feb 2013 | C      |
| Metafrax                              | Gubakha, Perm, Russia                       | urea                       | 400,000              | -                    | -                            | -    | -        | S      |
|                                       |   | ammonia                    | 600,000              | -                    | -                            | -    | -        | S      |
| PT Pupuk Sriwidjaja (Pusri)           | Sumatera Selatan (South Sumatra), Indonesia | ammonia                    | 660,000              | KBR Technology       | Rekayasa                     | -    | Dec 2015 | E      |
|                                       |   | urea                       | -                    | KBR Technology       | Toyo Engineering (TEC)       | -    | Dec 2015 | E      |
| SABIC                                 | Yanbu, Saudi Arabia                         | polyethylene terephthalate | 420,000              | Uhde Inventa-Fischer | EPC Engineering - Consulting | -    | H2 2013  | U      |
| Taiyo Oil                             | Shikoku, Ehime Pref, Japan                  | xylene, mixed              | 300,000              | -                    | Chiyoda                      | -    | Nov 2014 | E      |
| Tangshan Zhonghao Chemical            | Tangshan, Hebei, China                      | polyacetal                 | 40,000               | -                    | -                            | -    | 2014     | P      |
| TPC Group                             | Houston, Texas, US                          | polyisobutylene            | -                    | -                    | -                            | -    | -        | E      |
| Westlake Chemical                     | Calvert City, Kentucky, US                  | ethylene                   | (x) 82,000; 286,000T | -                    | Technip                      | -    | 2014     | P      |
| YPFB                                  | Gran Chaco, Bolivia                         | polypropylene              | -                    | -                    | -                            | -    | -        | S      |
|                                       |   | propylene                  | -                    | -                    | -                            | -    | -        | S      |

### NEW PROJECTS AND PLANT SHUTDOWNS INDEXES, NOVEMBER 2012 – JANUARY 2013



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.