

# THE WHOLE WORLD OF MEGA-PLANTS

**GROAB review: The highlights in plant construction** — 2017 was a tumultuous year in plant engineering: The inauguration of Sadara's isocyanate plant in Jubail was the completion of the world's biggest chemicals complex to be built in a single step. Meanwhile, projects are also booming in Asia and the US: Last year, our database GROAB recorded a whopping 705 new projects, ranging from the refineries (114 projects) and bulk chemicals plants (78) to food and pharmaceuticals (31). We present selected highlights ...

135

- 4 (Organic)-Fuels
- 2 Mining
- 40 Energy and Powerplants
- 17 Oil and Gas Extraction
- 8 Oil and Gas Transport
- 17 Basic-/Bulk Chemicals
- 14 Polymers
- 1 LNG
- 2 Others
- 4 Pharma/Food
- 20 Refinery**
- 2 Specialties Chemicals/Pigments
- 2 Technical Gases
- 2 Water/Sewage



161

- 2 (Organic)-Fuels
- 1 Mining
- 35 Energy and Powerplants
- 1 Fertilizers
- 22 Oil and Gas Extraction
- 5 Oil and Gas Transport
- 26 Basic-/Bulk Chemicals**
- 10 Polymers
- 2 LNG
- 4 Others
- 20 Pharma/Food
- 21 Refinery
- 7 Specialties Chemicals/Pigments
- 4 Technical Gases
- 1 Water/Sewage



302

- 2 (Organic)-Fuels
- 3 Mining
- 69 Energy and Powerplants
- 1 Fertilizers
- 50 Oil and Gas Extraction
- 11 Oil and Gas Transport
- 38 Basic-/Bulk Chemicals
- 28 Polymers
- 3 LNG
- 5 Others
- 6 Pharma/Food
- 60 Refinery**
- 8 Specialties Chemicals/Pigments
- 17 Technical Gases
- 1 Water/Sewage



31

- 3 Mining
- 15 Energy and Powerplants
- 7 Oil and Gas Extraction**
- 2 Oil and Gas Transport
- 1 Basic-/Bulk Chemicals
- 1 Refinery
- 1 Others
- 1 Water/Sewage



21

- 3 Mining
- 7 Energy and Powerplants
- 9 Oil and Gas Extraction**
- 1 Technical Gases
- 1 Water/Sewage



55

- 17 Energy and Powerplants
- 1 Fertilizers
- 8 Oil and Gas Transport
- 4 Basic-/Bulk Chemicals
- 2 Polymers
- 1 Pharma/Food
- 12 Refinery**
- 1 Technical Gases
- 6 Water/Sewage



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## Chemicals from Crudes

- Country: Saudi Arabia
  - Location: Yanbu / Medina
  - Category: Refinery
  - Project: Petrochemical complex
  - Capacity: 9,200,000 t/a
  - Investment: €17,000 million
  - Appointment: in the course of 2025
  - Client/Operator: Saudi Arabian Oil Company, Saudi Basic Industries Corporation (Sabic)
- A huge COTC complex (crude to chemicals) is to be created at the port of Yanbu, Saudi Arabia: Upon

completion in 2025, 400,000 barrels of crude oil are to be processed there daily. Production output shall include up to nine million tonnes of chemicals and base oils per year, the planners state.

## Mega Refinery in India

- Country: India
  - Location: Phulokhari, Bhatinda, Punjab
  - Category: Refinery
  - Project: Modernization of a refinery
  - Capacity: 9,000,000 t/a
  - Date: fourth quarter of 2019
  - Client/Operator: Hindustan Mittal Energy (HMEL)
- HPCL-Mittal Energy (HMEL) licenses Haldor Topsoe's hydrodesulfurization and hydrogen produc-

tion facilities to refurbish its refinery in Bathinda, Punjab. In the future, the plant will be able to produce fuels at BS VIS level, equivalent to the Euro VI standard.

## Plus 90 Kilotons

- Country: USA
  - Location: Dallas
  - Category: Plastic
  - Project: Polyethylene
  - Capacity: 90,000 t/a
  - Client/Operator: Celanese Corporation
- Celanese will increase its global production capacity by about 90 kilotons per year. Locations include: Nanjing and Suzhou (China), Florence and Bishop (USA), Forli (Italy). The projects will be completed around 2018–2019.



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### PROCESS-Tip

- Find current projects and a monthly overview in our 'Global Spotlight' section (p. 6) or on the last page of this issue!
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