

**OIL MARKETS, MIDSTREAM, DOWNSTREAM & CHEMICALS**

# Chemical Competitive Cost & Margin Updates

## Insight into a changing competitive environment

Competitive Cost and Margin Analytics (CCMA) leverages in-depth, independent technical and economic evaluations of commercial technologies for the chemical industries with a comprehensive view on chemical production costs and margins, utilizing IHS Markit global expertise and comprehensive databases.

**If your analytical work hours were better leveraged, what else could you get done?**

We understand the importance of making timely decisions. When working on strategic initiatives such as your strategy refresh, too much time spent collecting data and information from several sources can negatively impact your efficiency. With CCMA, you can begin your working day with exactly the data you need.

Instantly access:

- Detailed Capacity Database & Supply/Demand Balances
- Process Economics Program (PEP) & Downstream Capital Cost Service (DDCS)
- Long Term Price Forecasts: Energy & Chemical
- Technology & Feedstocks by Plant
- Integrated Economics Across Value Chains

**Add to the Rewards of Margin Improvement**

Building your own cost curves is not only a time consuming but costly initiative. CCMA helps you to better manage the capital costs associated with formulating various production scenarios. Our models utilize detailed information on current and expected production facilities globally, for a deeper, consistent insight into the changing market dynamics.

**CCMA Decision Support**

**Operational**

- Price Setting
- Regional Price Stability
- Export Opportunities
- Import Threats
- Purchasing Tactics
- Validation of Internal Models

**Strategic**

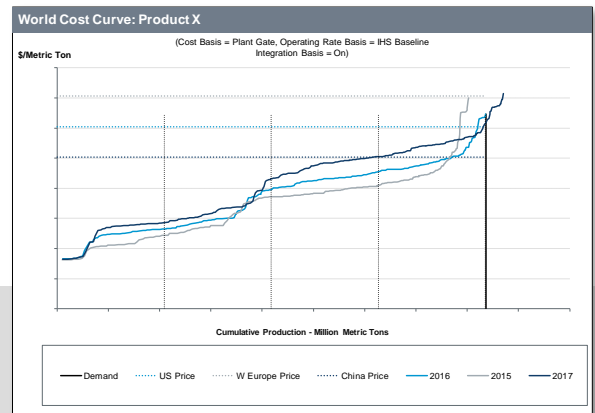
- Impact of New Capacity
- Impact of New Technology
- Capital Project Support
- Sales Management Strategy
- Purchasing Strategy

**Enabling confident decision-making with:**

- Energy Price Basis and Energy Outlook
- Executive Overview & Methodology
- Production cost snapshots for key technologies by regions
- Interactive excel tool with graphs, tables, global & regional views
- Analyze scenarios based on user-specific inputs
- Historical 5-year prior period, prior year, current year & year 10 in future period

**New Enhancements**

- Quarterly model updates
- Decreased depreciation for plants more than 10-years old
- Ability to add SG&A to plant economics
- Monthly -18 month forecast; 3 month history - as well as Annual Curves incorporating announced or planned short-term shutdowns into production costs
- 10-Year forecast including Hypothetical plant additions dictated by Supply/Demand dynamics



## Key Functionality

### Individual Plant Identification – Insight into Each Unit’s Global Competitiveness

The CCMA model includes identification of individual producer pro-forma plant costs and margin positions along the global cost curve. Total cost of production is identified.

For Plant Identification:

- Price setting
- Regional price stability
- Export opportunities
- Import threats
- Purchasing Tactics
- Validation of internal models

### Fully Customizable Plant Economic Snapshots

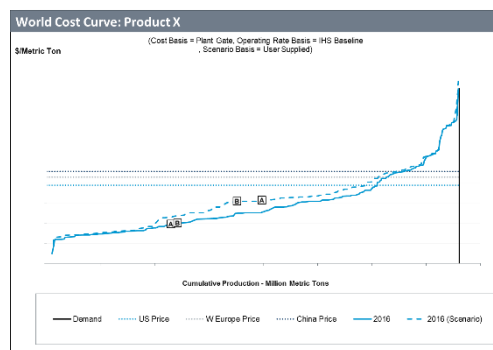
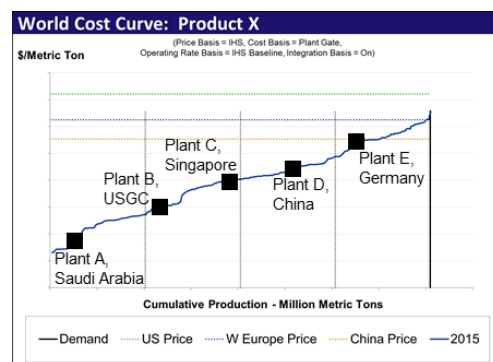
The CCMA model includes the option to estimate economics for a customizable hypothetical plant or real plant economic inputs, and overlay the plant’s position on the global cost & margin curves to compare with real currently operating units.

For Hypothetical Plants, view:

- Detailed cost breakdowns using any commercially operating technology
- Cost estimates comparisons of up to three hypothetical plants simultaneously
- IHS Markit economics or customized yield and price sets based on user scenarios

### Oil Price Scenarios

CCMA includes an integrated econometric model that adjusts all feedstock, intermediates, co-products, product prices and utility costs for an input oil price for modeling the changes in industry dynamics due to oil price changes.



### Products Available Now - 24 product models covering over 6,000 plants

Acetic Acid	Formaldehyde	Polyvinyl Chloride
Acrylic Acid	Methanol	Propylene
Acrylonitrile	Methyl Methacrylate	Propylene Oxide
Ammonia	Mixed Xylenes	Soda Ash
Benzene	Monoethylene Glycol	Styrene
Butadiene	Nylon 6 & Nylon 6,6	Terephthalic Acid
Butanediol	Paraxylene	Styrene-Butadiene Rubber
Chlor-Alkali	PET	Toluene
Cumene	Phenol	Urea
Dimethyl Ether	Polybutadiene Rubber	Vinyl Acetate Monomer
Ethylene	Polyethylene (HDPE, LDPE, LLDPE)	Vinyl Chloride Monomer
Ethylene Dichloride	Polypropylene	
Ethylene Oxide, High-Purity	Polystyrene	

### Coming Soon \*

Expandable Polystyrene  
HMDA  
Caprolactam  
Adipic Acid  
Polycarbonate

For products of interest not listed above, please contact us about custom requests.

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#### About IHS Markit

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