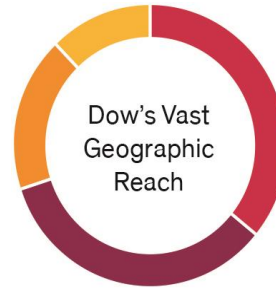


Energy in chemistry: Dow Benelux



Dow Locations



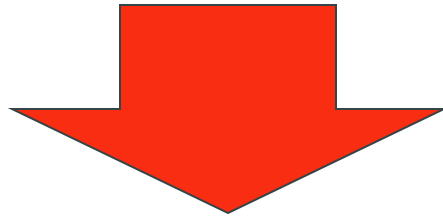
Percent of 2012 Global Sales

North America	36%
Europe, Middle East and Africa	34%
Asia Pacific	18%
Latin America	12%



■ The manufacturing sector and its effects on job creation

- The European Commission estimates manufacturing generates **25%** of all private sector jobs in the EU
- 80%** of private sector R&D
- 75%** of all EU Exports

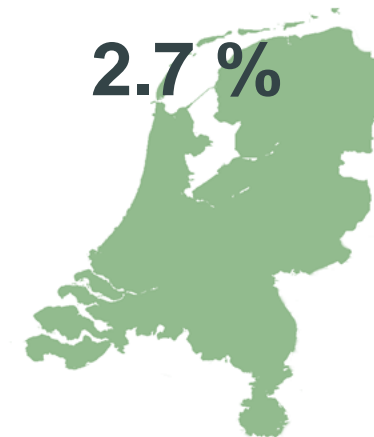


Manufacturing spurs new jobs like no other in economy:
creates on average **5 to 8 jobs** downstream

Dow's impact regarding Energy and Cost



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■ Developments in Energy Market

Shale gas exploration changed the energy market drastically

- Strongly stimulating American Industry
- Lower price of coal
- Changes the balance between energy producing and energy consuming countries
- Stop on search for sustainable energy sources

European regulations on GHG emissions

- Administrative burden
- No incentive for energy efficiency
- No support outside Europe > no level playing field

Affordable energy enables competitive EU manufacturing

- EU Manufacturers need:
- Affordable energy for our production
- A clear view on the additional cost caused by heavy involvement in renewables
- Exploration of additional sources for energy supply such as shale gas

Did You Know?

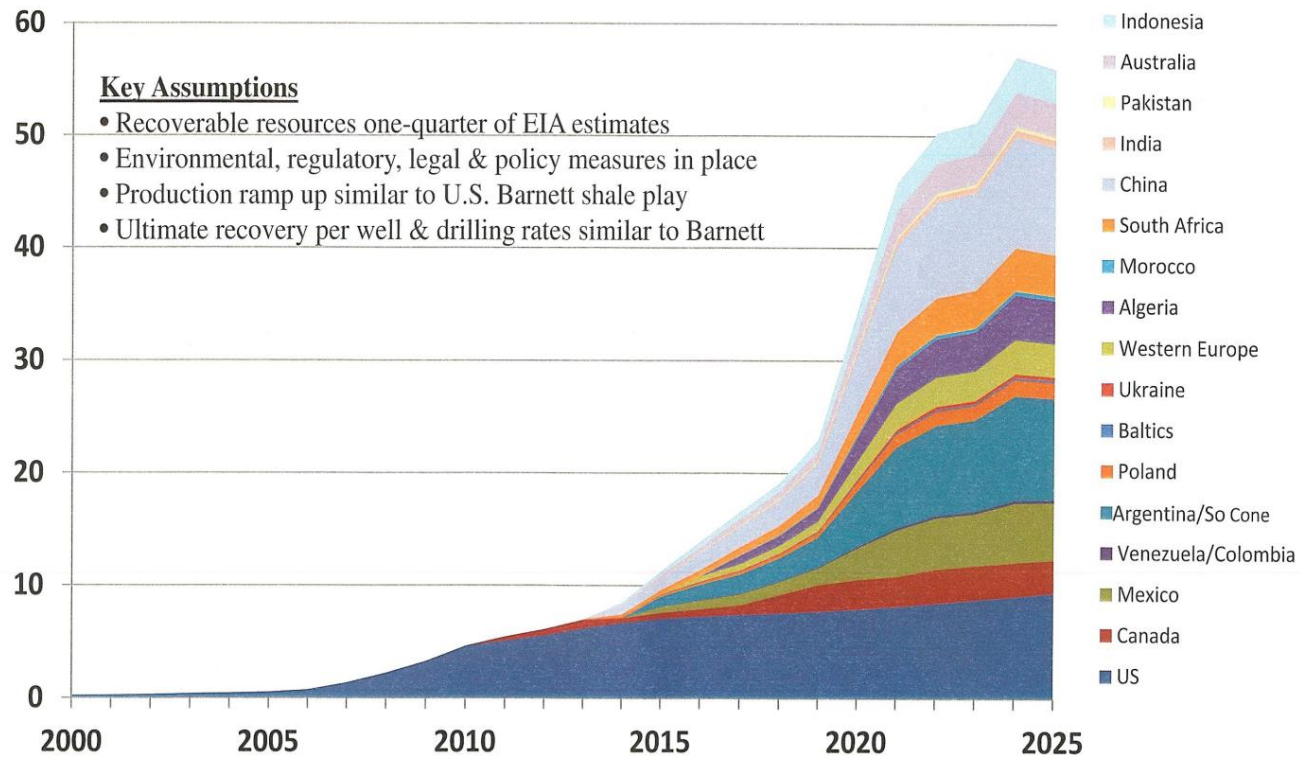
Today, globally, the world's population consumes about 4 times as much oil as we discover.



Forecasted development Shalegas

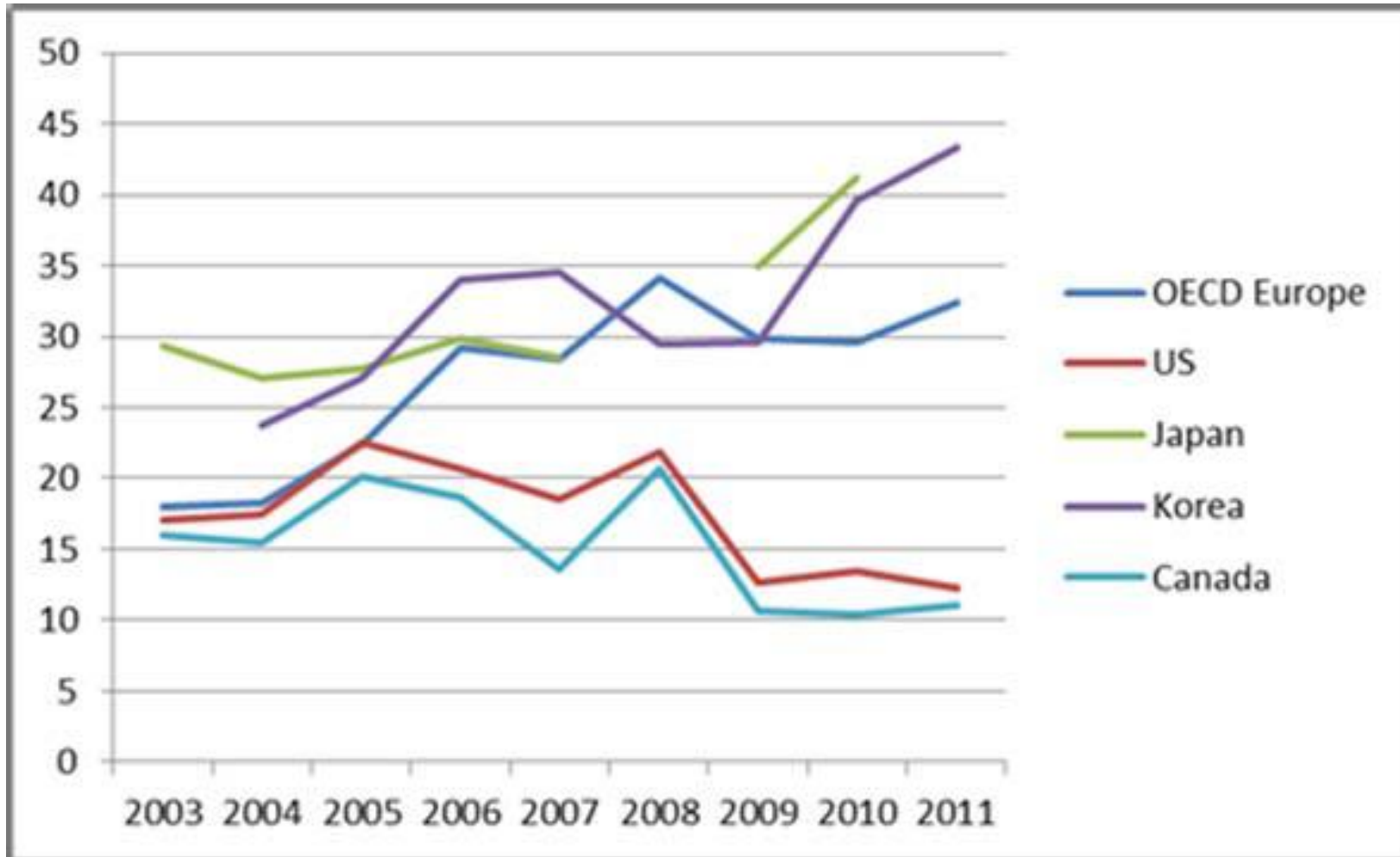
Possible Impact on Global Gas Market

Trillion cubic feet
Per year



Source: ENR/EGA/EP

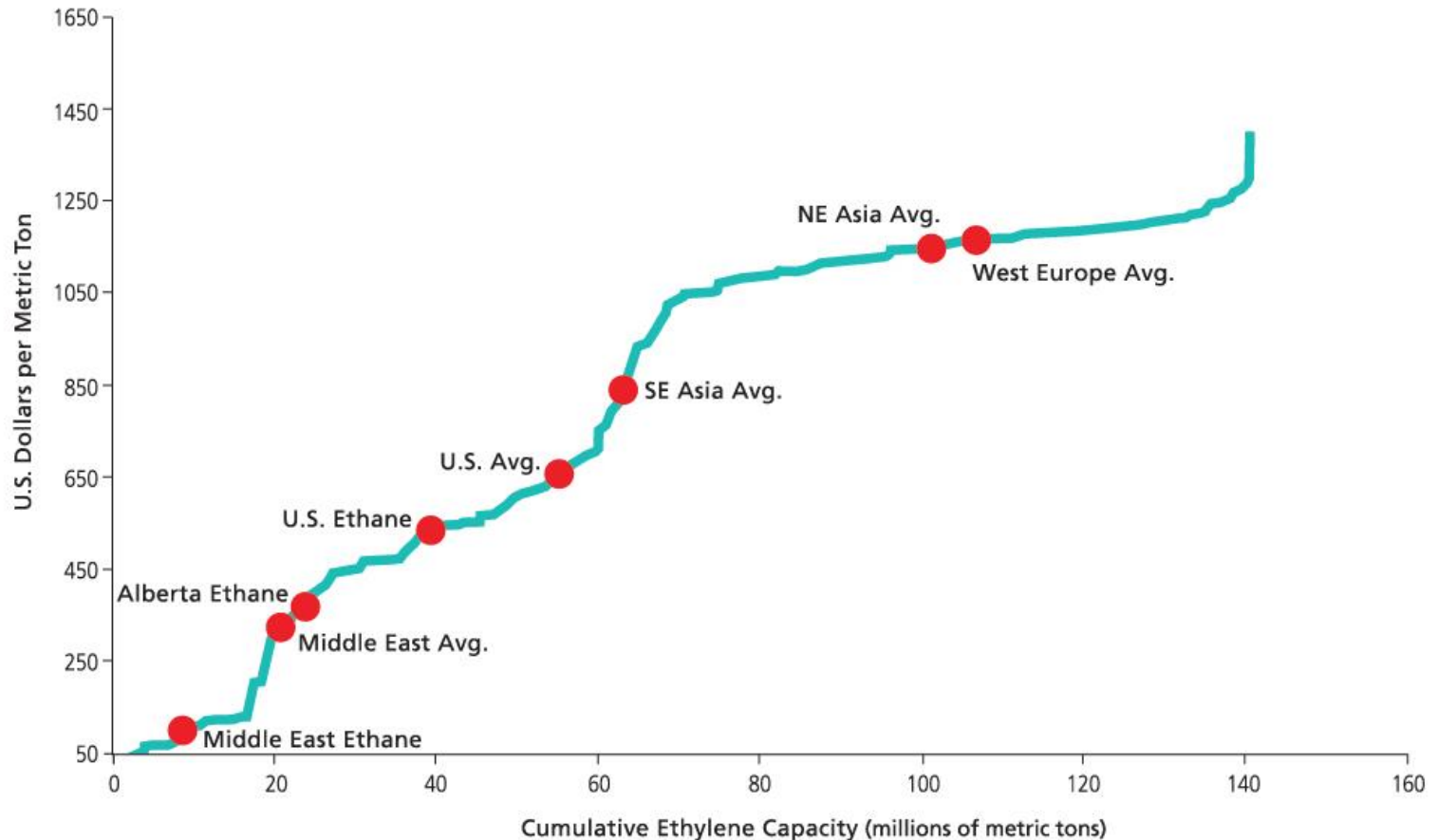
Impact of Shalegas on Industrial gas prices (EUR/MW)



Source: Comm. Staff document industrial policy communication
IEA energy prices and statistics

Impact of Shalegas on Dow's feedstock position

Global Ethylene Cost Curve



Source: IHS, Dow



■ European Energy intensive manufacturers need:

- Affordable energy for our production inside the EU
- Consistency of EU energy and climate policies, no overlapping policies and harmonized EU implementation in all EU Member States
- Completion of the internal energy market
- Promotion of research, development and manufacturing of renewable technologies in order to drive down costs of renewable energy
- A clear view on the additional cost caused by heavy involvement in renewables
- Exploration of additional sources for energy supply such as shale gas