

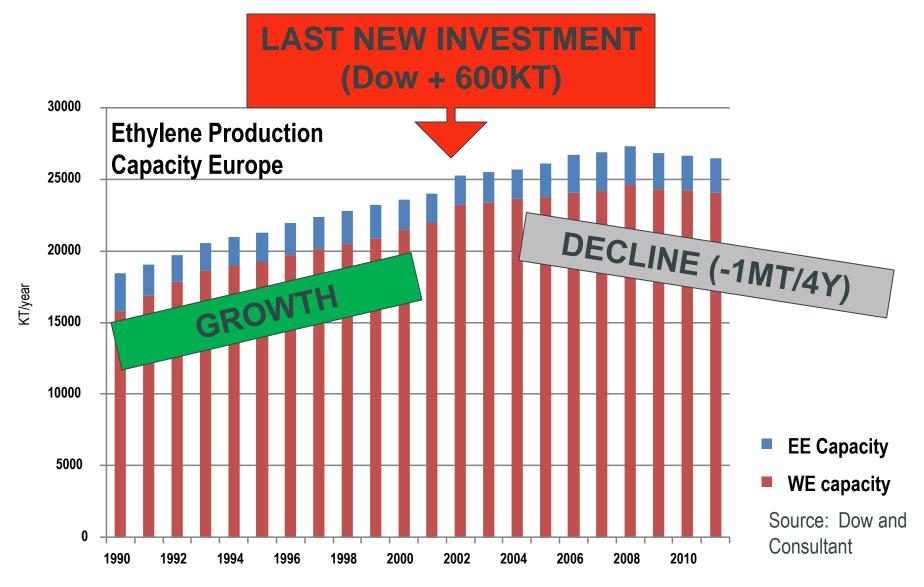
## *European Chemical Industry - post 2020 Energy Roadmap*

## *"when the facts change ..... do we need to change our policies?*

Russel Mills – Global Director Energy & Climate Policy – Dow Chemical

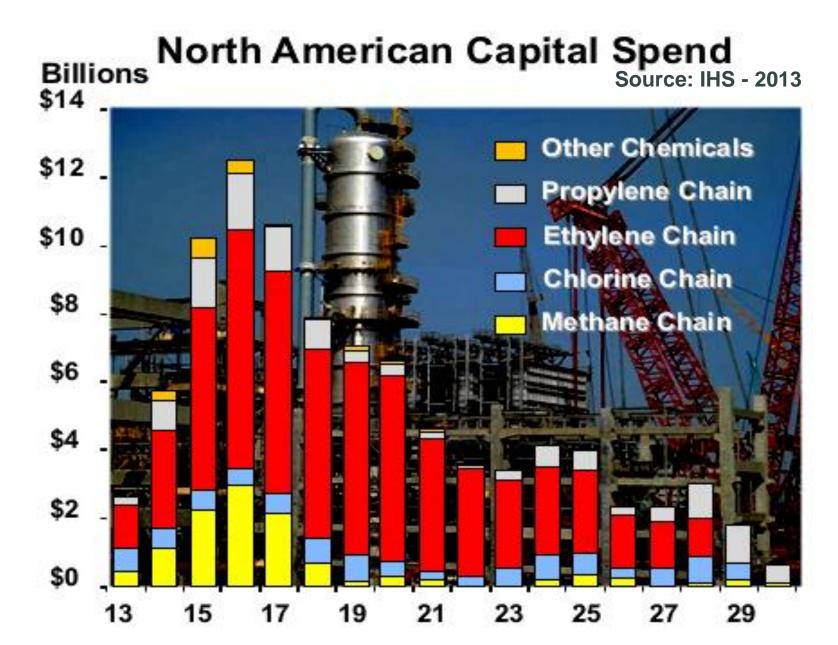
European Energy Forum - 21<sup>st</sup> May - European Parliament Strasbourg

#### **Our Manufacturing Building Blocks are Leaking Investments**



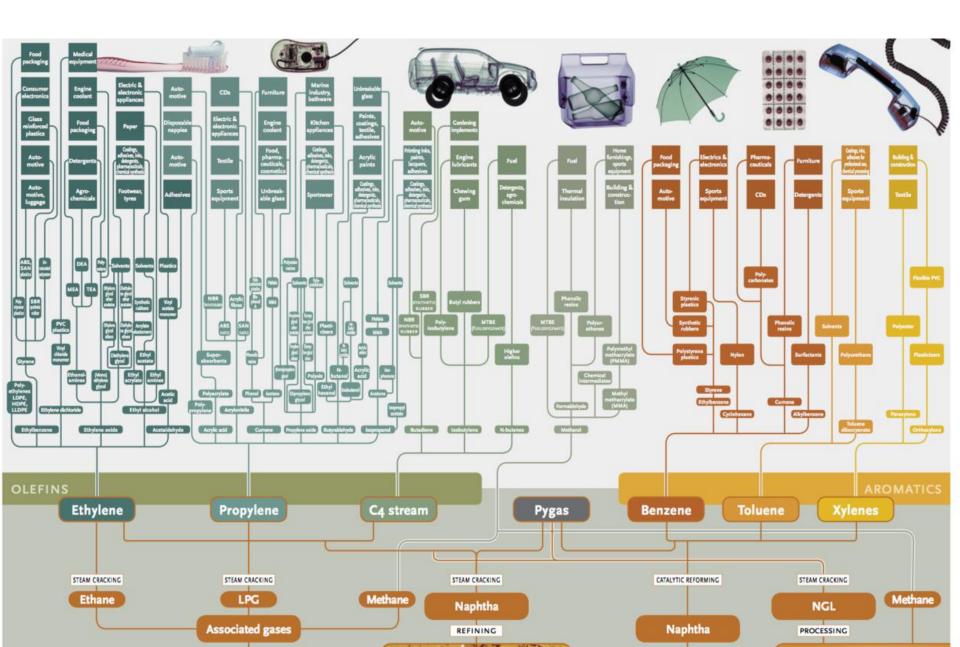


#### "Affordable Energy" drives Different Investment Outlook



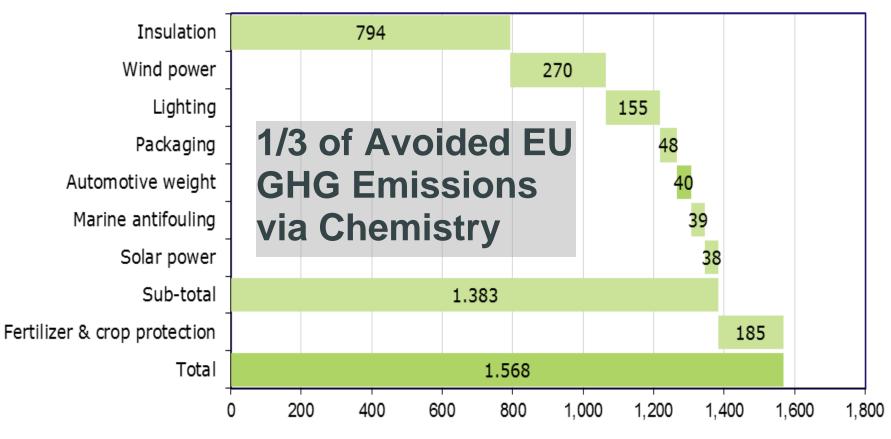


#### 95% of Manufacturing Rely on Chemical Building Blocks



#### Sustainable Future = MORE High Performance Materials





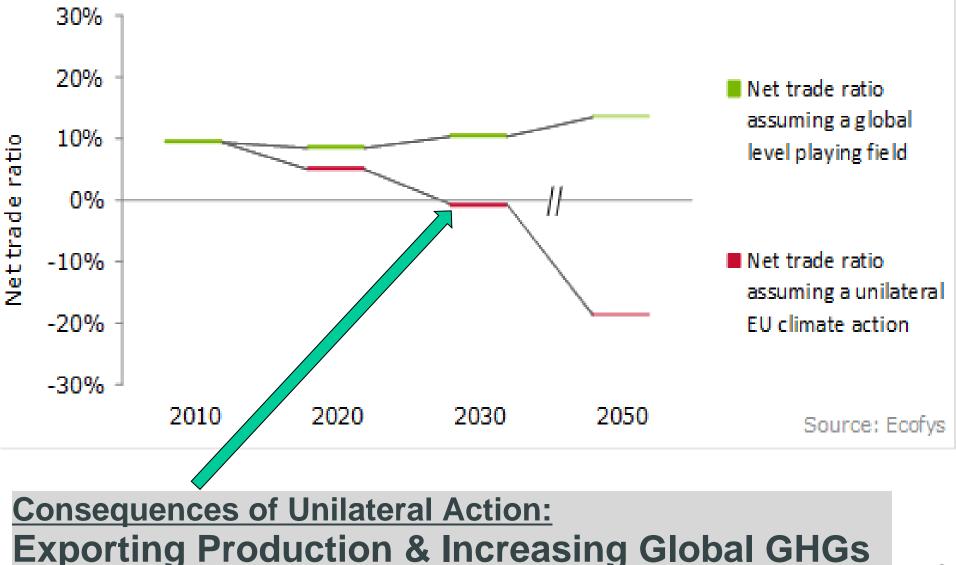
Source: Ecofys

#### Avoided emissions (Mtonne)



### **Policy Choice: Where to Manufacture for this Demand**





## Summary – Policy Choices – Dialogue Items

#### <u>Higher Energy Costs = Lower GDP Growth</u>

- Adding Costs & Policy Burdens relative to other Major Regions proven Counterproductive
  - Chemistry building block investments early indicator of manufacturing decline or revival

#### Chemistry impacts 95% Value Chain

- Manufacturing creates
  - Jobs (25%)
  - **R&D** (80%)
  - Exports (75%)
- Uncompetitive building blocks undermine full manufacturing chain



## Summary – Policy Choices – Dialogue Items

Sustainable Future (Efficiency & Energy Alternatives) needs more Higher Performance Materials

- 1/3 of Growing EU Consumption Emissions avoided via Chemistry
- Policies influence what will be future EU Production share

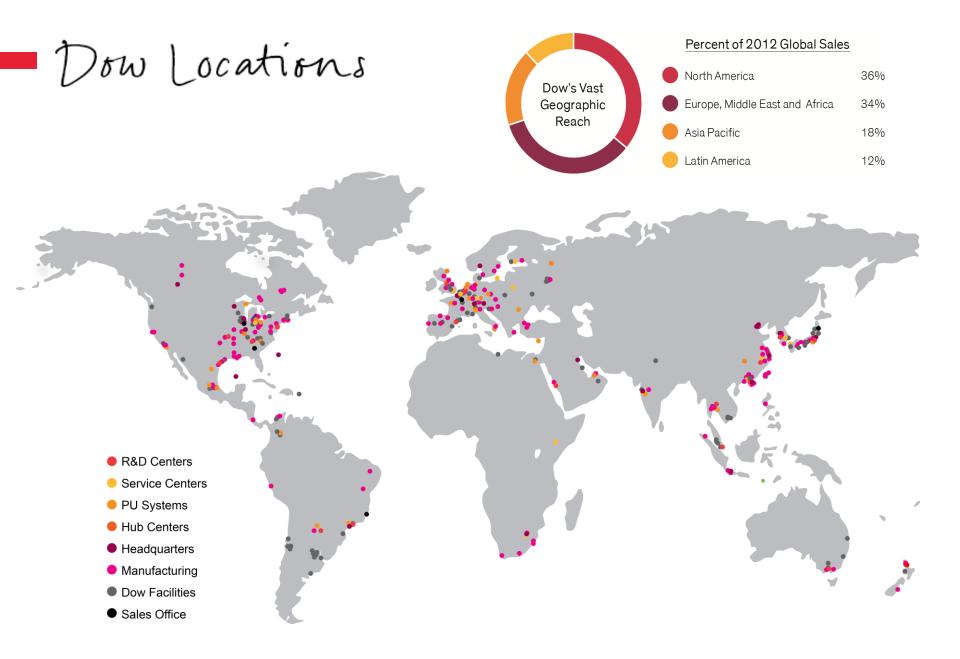
#### Multiple Workable Alternatives

- Global Actions precondition for further Climate Commitments
- Transition to predictable opportunity driven policy, maintain exemptions while burdens reduced & investments return
- Allow all energy technologies for effective energy solutions & focus innovations on tackling cost effectiveness for global leadership



# **Back up slides**

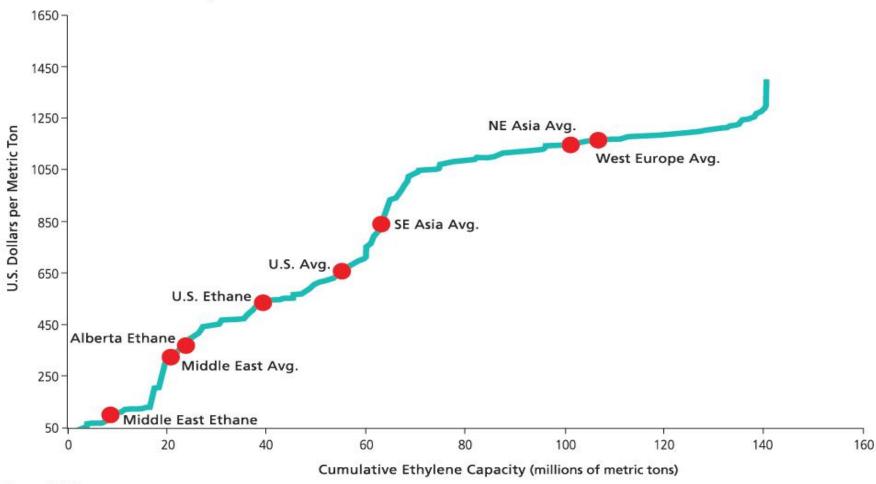




Dow

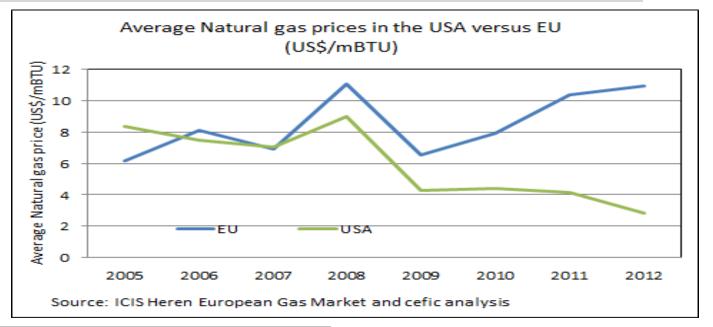
## **Attractive Margins/Regions driving Investments**

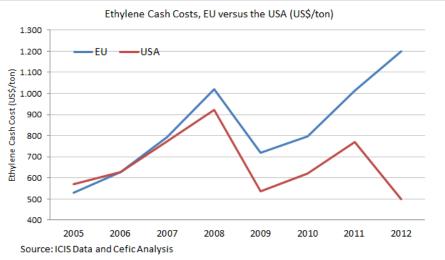
## Global Ethylene Cost Curve

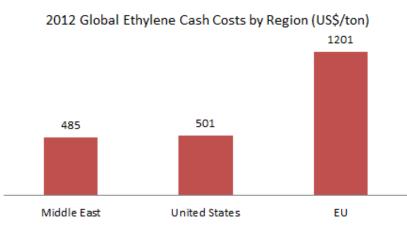


Source: IHS, Dow

#### **Energy Input Costs and Margin Impacts**



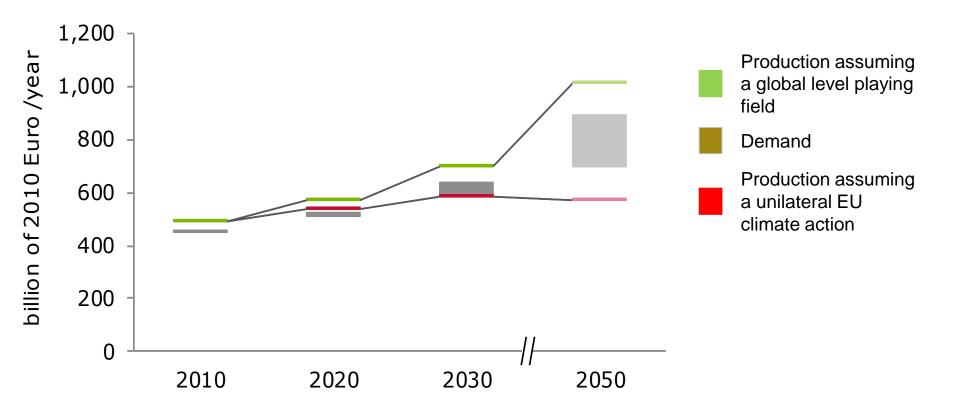


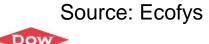


Source: ICISConsulting and Cefic Analysis



## **EU Chemicals Production under 2 Scenarios**





### **Growth and GHG Emission Reductions**

