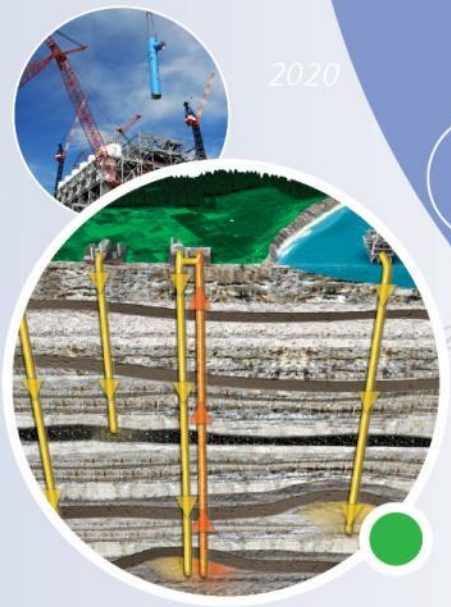
International Energy Agency



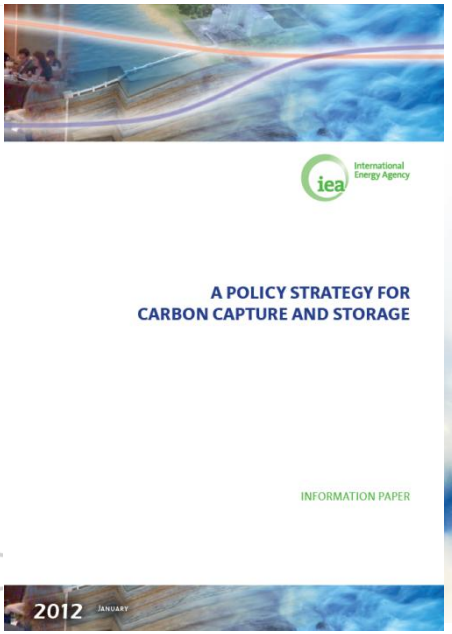
Session 2 - Industrial capture cost: estimation methods and metrics

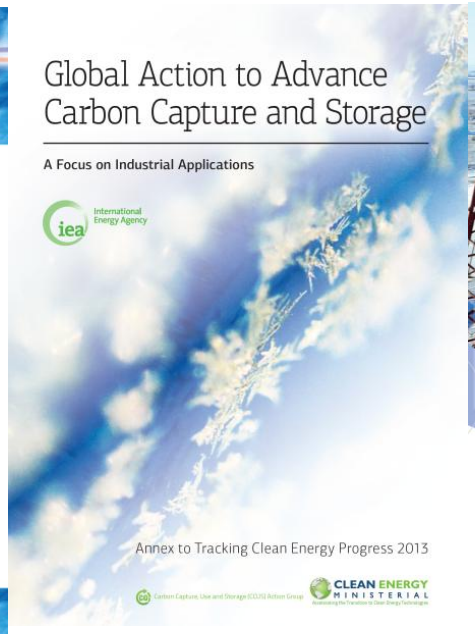
CCS Cost Workshop, Paris; 6-7 November 2013

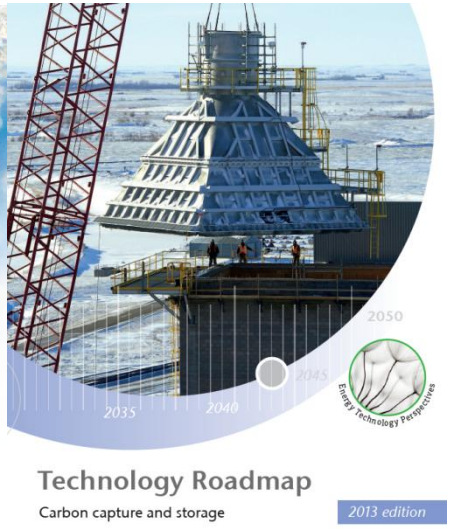
Simon Bennett, Chair

Carbon capture and storage

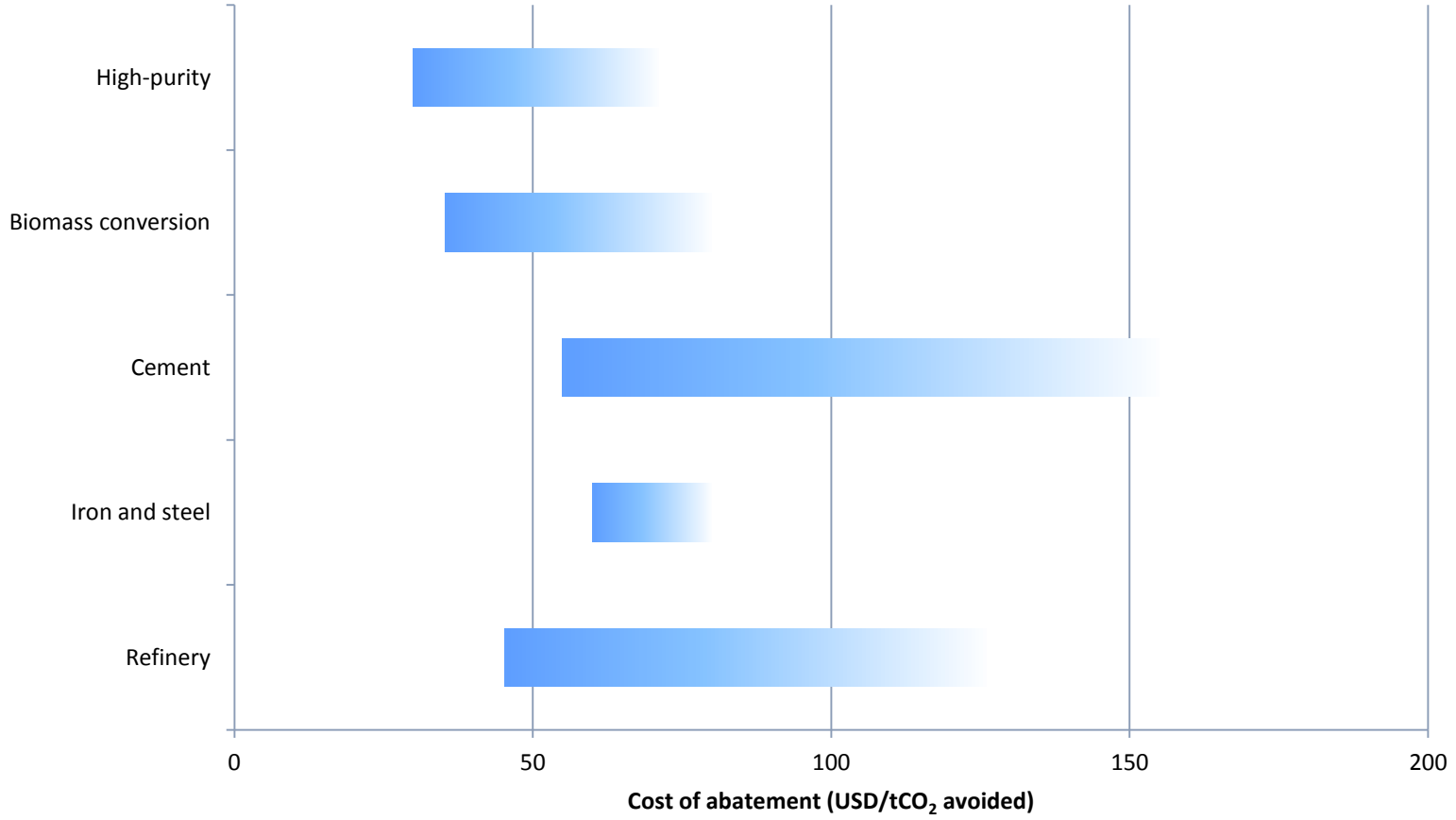
IEA reading list on CCS in industry





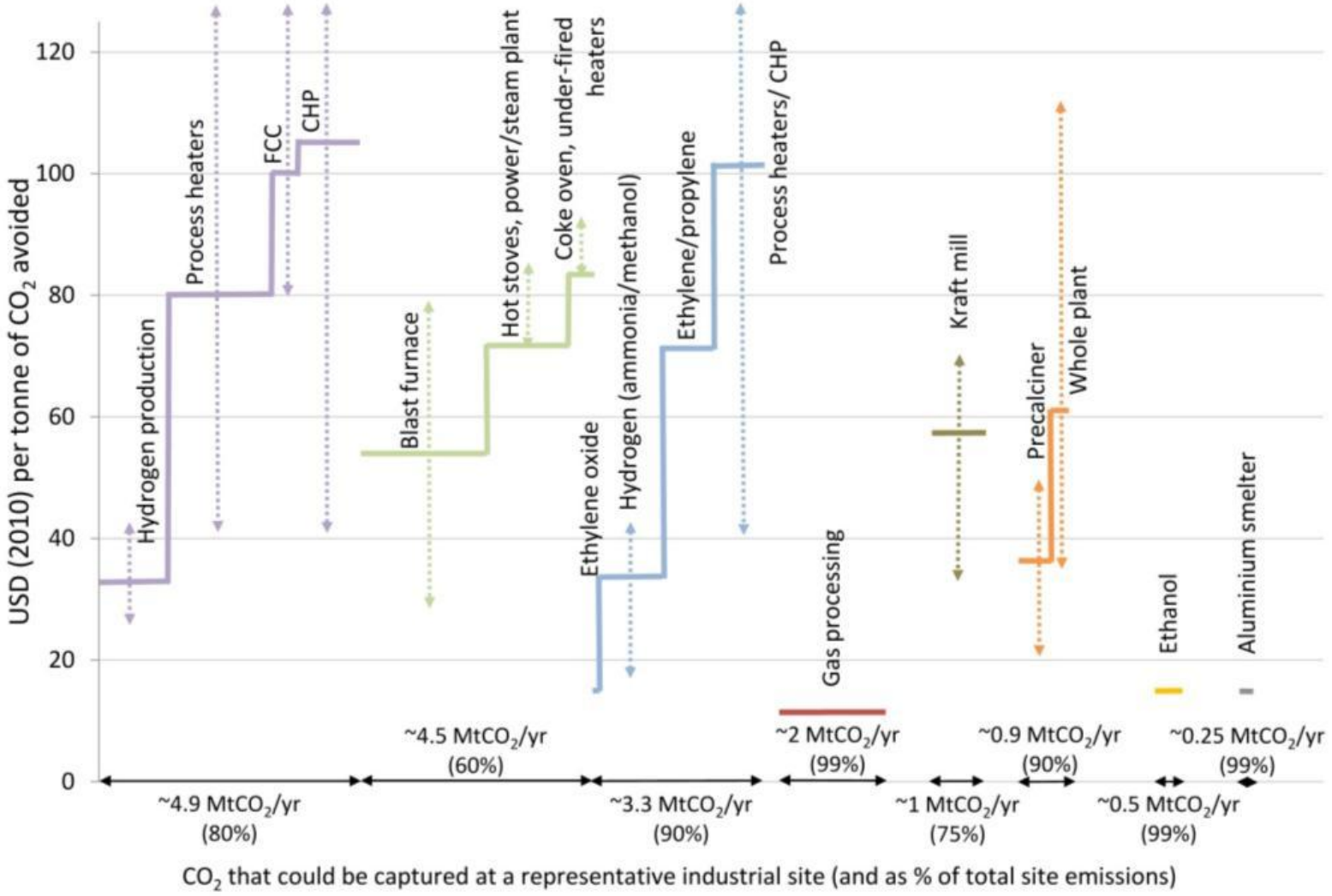


IEA abatement cost "estimates" 2011



The sectors covered will show a wide range of cost of abatement, from under 30USD/t to over 150USD/t

Update on avoidance costs 2013



Source: IEA report to the Clean Energy Ministerial 2013

Cost estimates vary widely between sites and within sites. Consensus is still evolving...

What we need to improve cost estimates

- **We need to improve comparability of estimates for industrial applications, as in power**
  - Setting boundaries around capture processes on sites
  - Approaches to estimating production costs (or NPV, etc.) in different sectors (equivalent to LCOE)
  - Use common terminology for citing costs and inputs
  - Allocation of costs across multiple product streams
  - Allocation of costs across multiple processes onsite
  - Baselines for estimating CO_2 avoidance costs
  - Incorporation of relevant risks