

Key messages on CCU

Sustainable CO₂

■ Atmospheric CO₂:

- *truly renewable but expensive*

■ By-product @ point source :

- ☺ *Biomass: truly renewable*
- ☹ *Chemical/material: not renew. but Efficient*
- ☹ *Energy: can & should be avoided*

Sustainable reductant

■ Green H₂

- *@ 36x fossil H₂; blue H₂ is no option*

■ Continuous Green Electricity

- *@ 34x LCOE*

Target Products

■ Oxygenates not hydrocarbons

- *for decent return & low reduction cost*

The cost of CCU

Biomass is an affordable CCU

