



Clean Coal produces Carbon
Dioxide as a Chemical Feedstock

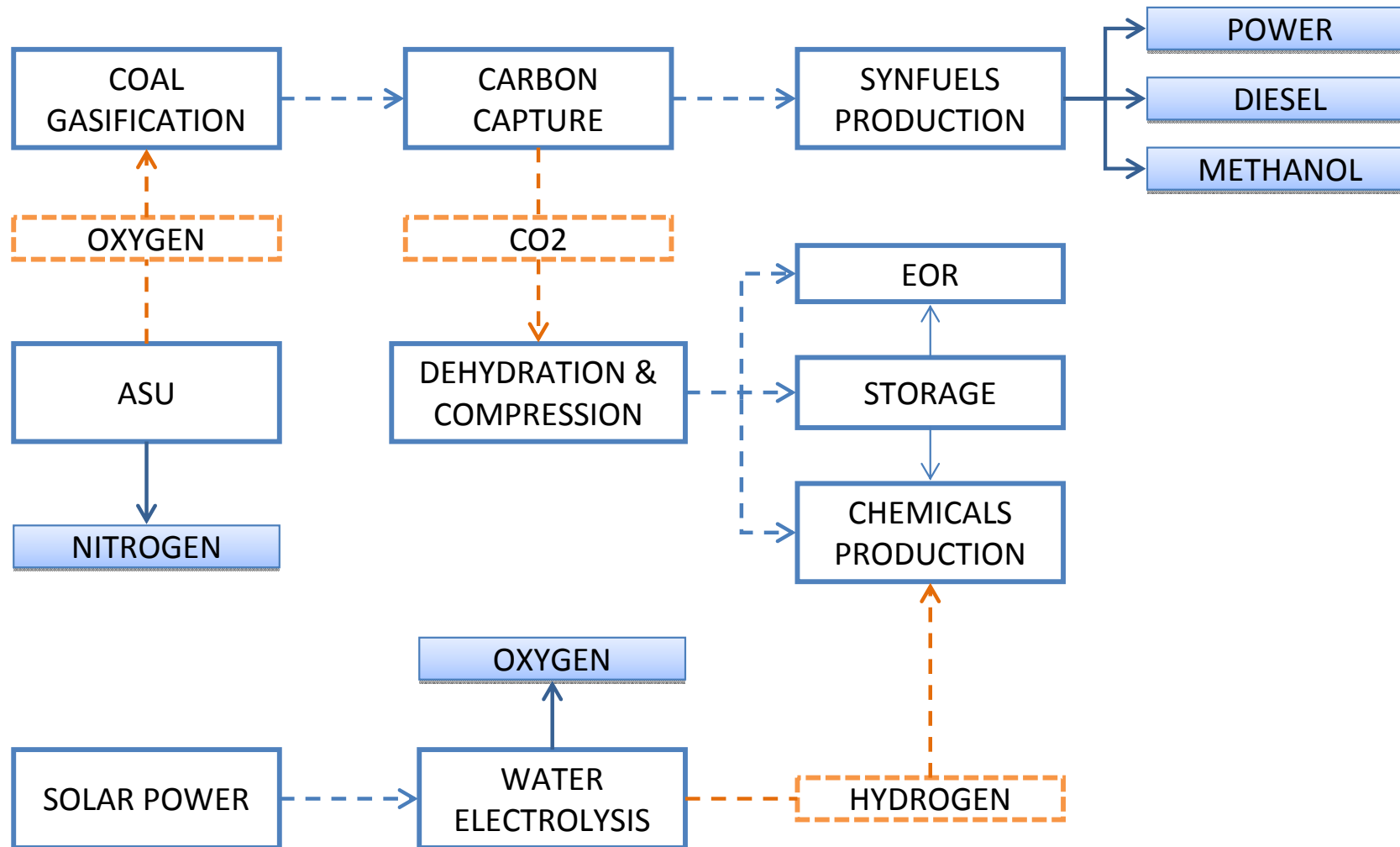
January 2012

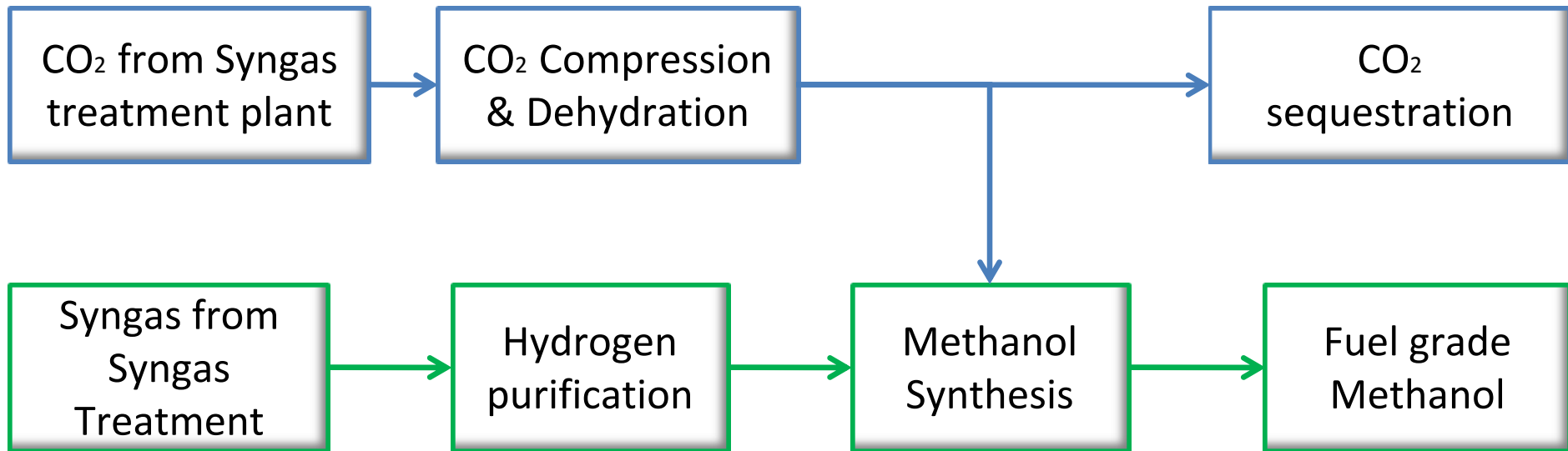
- Coal provides 40% of the power generation worldwide
 - China consumes 49% of the world coal production
 - Coal is a low cost source of energy products compared to conventional liquid hydrocarbons
 - Synthetic fuels produced from coal contain less contaminants compared to crude oil based products
-

Carbon Dioxide Emissions from Coal

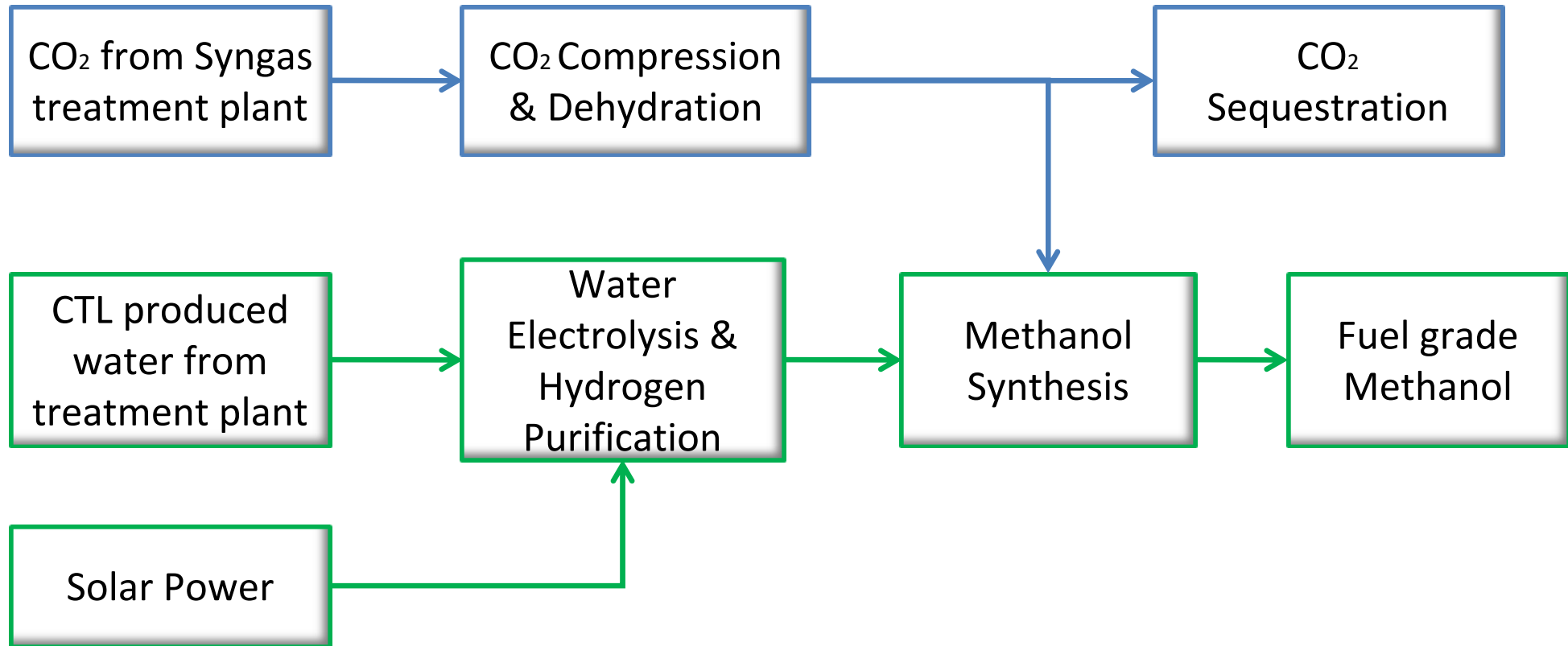
- Coal which is gasified to produce electrical power (IGCC) or energy products (CTG, CTL, CTM, CTP) lends itself to carbon capture as CO₂
 - The CO₂ captured is high purity and can be stored in depleted hydrocarbon reservoirs or aquifers
 - Alternatively, it can be used for EOR, Chemicals, Fertilisers and Fuel production
-

CO2 Capture & Utilisation

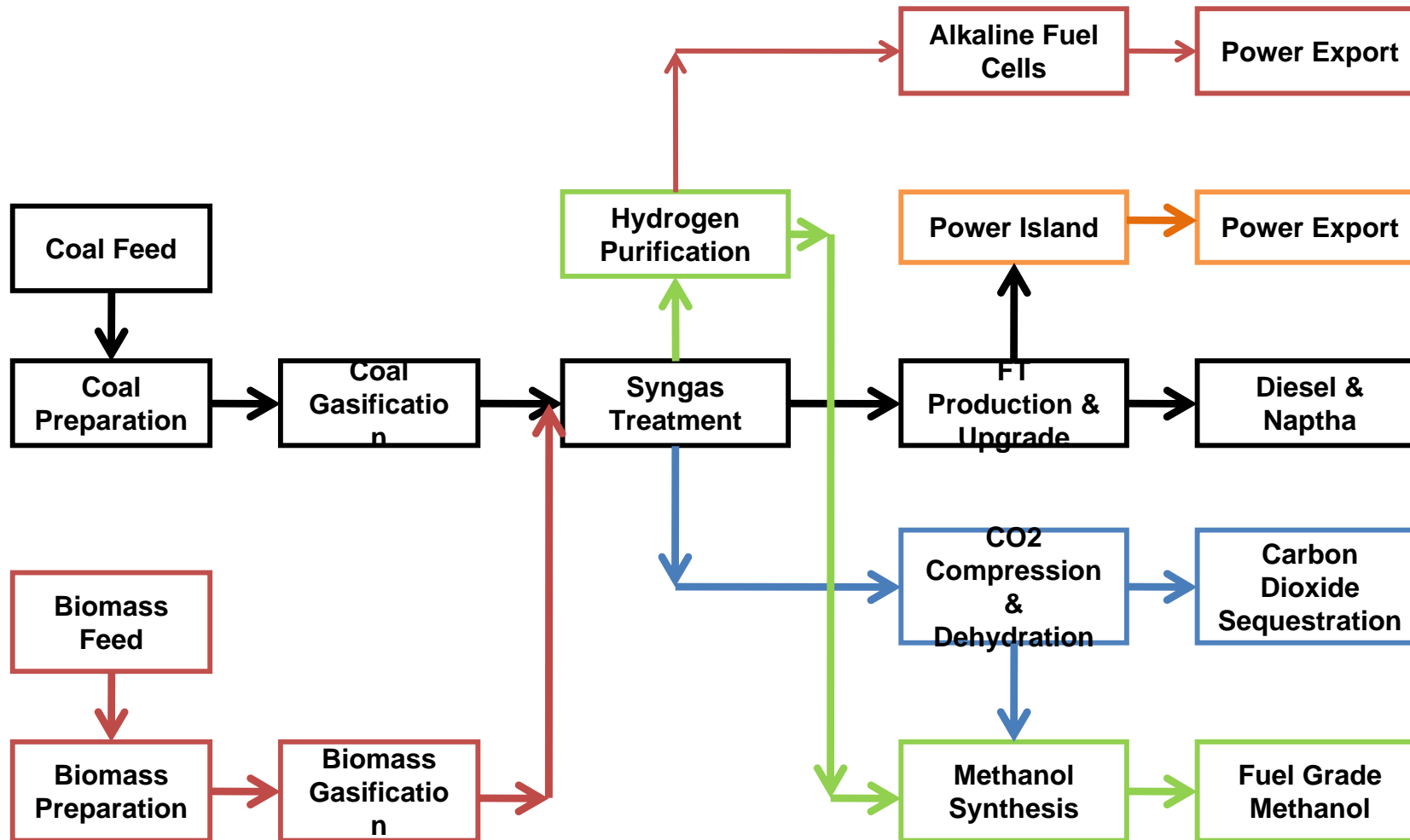




CO₂ Utilisation Ph2– 1000 tpd Methanol Plant



Polygen Development



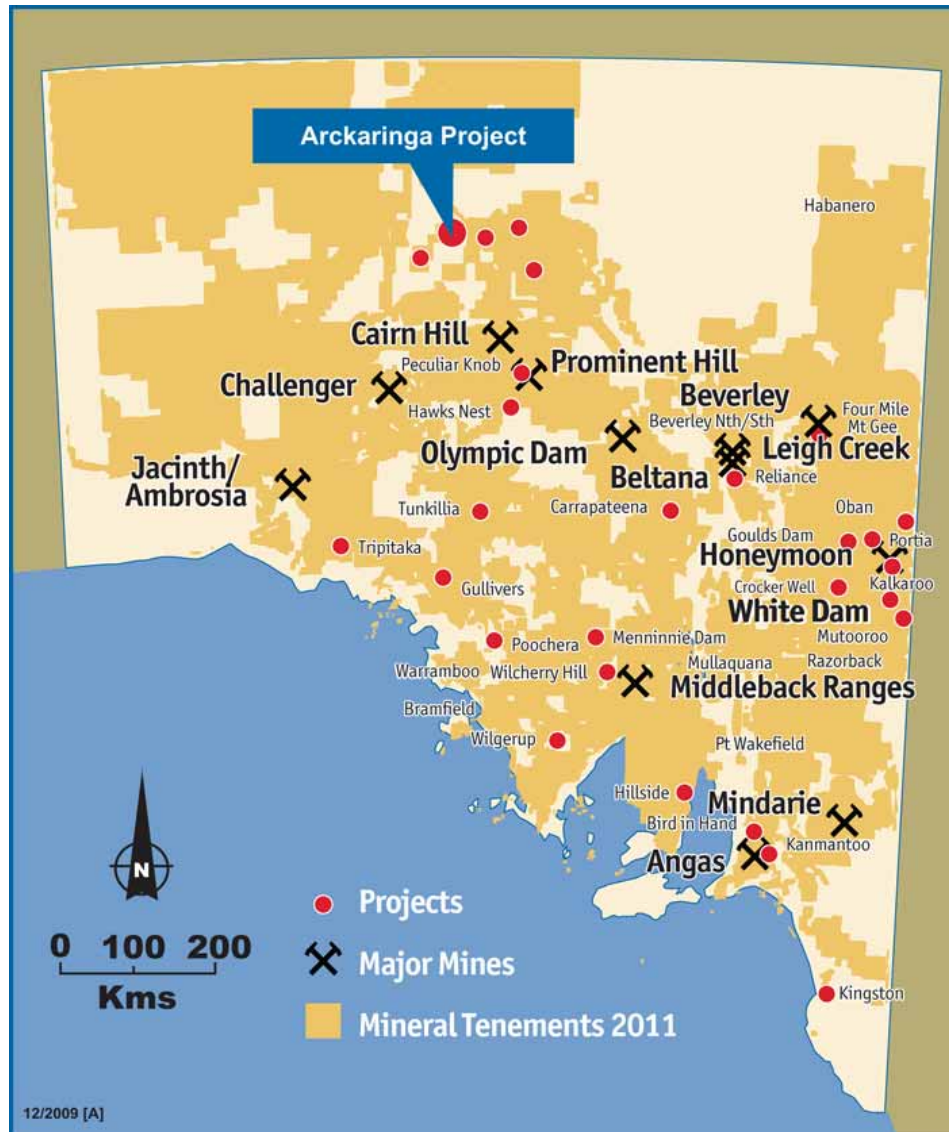


Fig 2 and Fig 3



