



O2C Transformation

Innovative Options to
Produce Knowledge-
based Chemicals

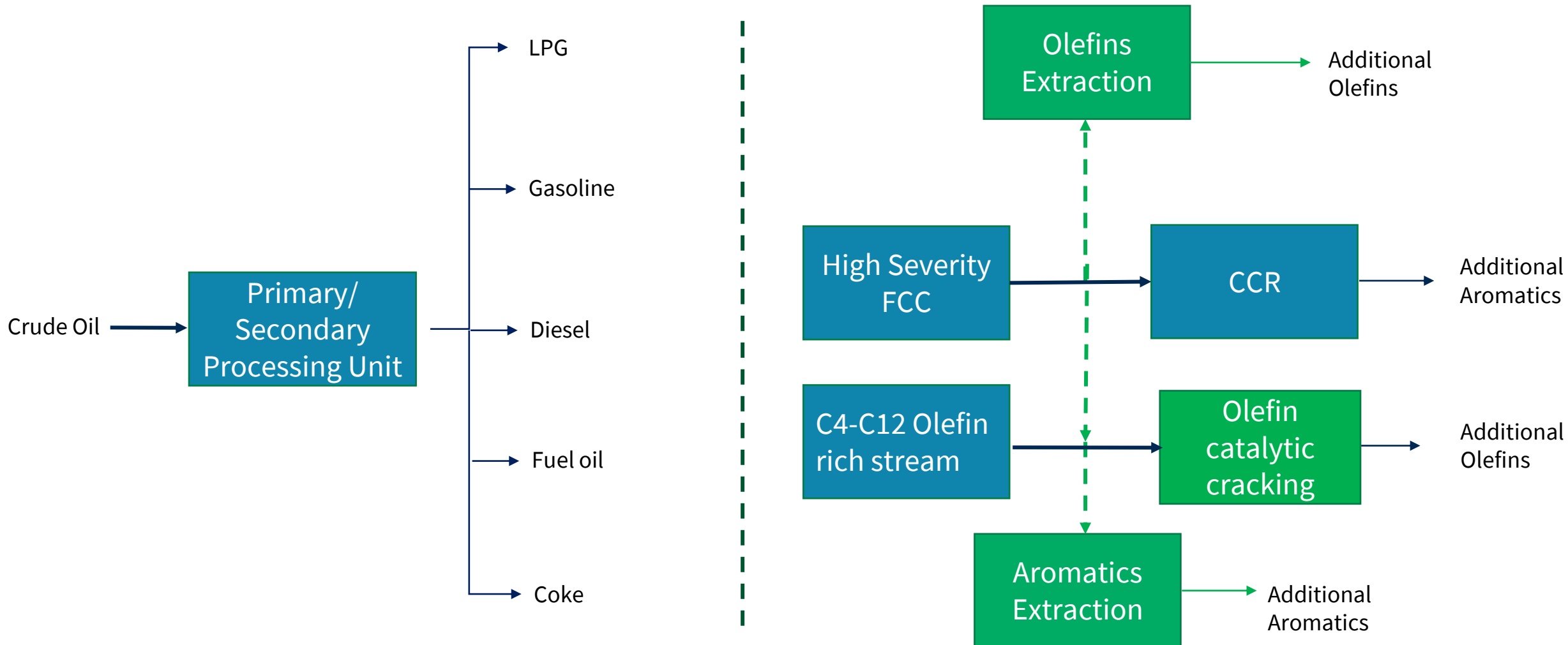
Global Chemicals and Petrochemicals Manufacturing Hubs in India -2021
25th – 26th November 2021

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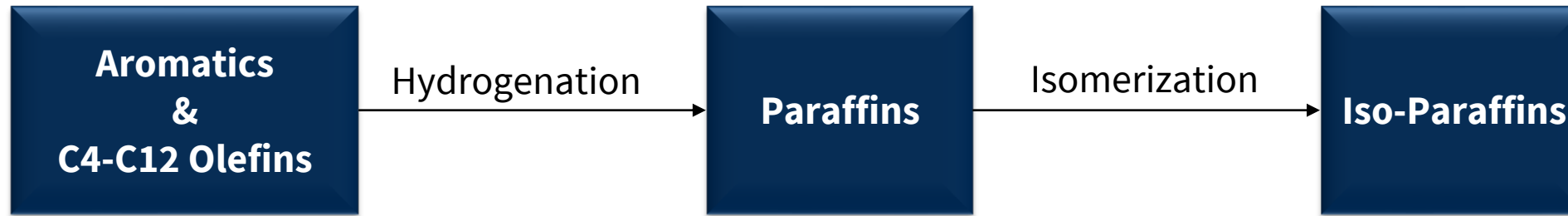


- Refinery Configuration
- Hydrogenation: Boon/Bane ?
- Molecular finger printing
- Utilization of Surplus H₂ & CO₂
- Petcoke : Syngas based chemicals

Refinery Configuration

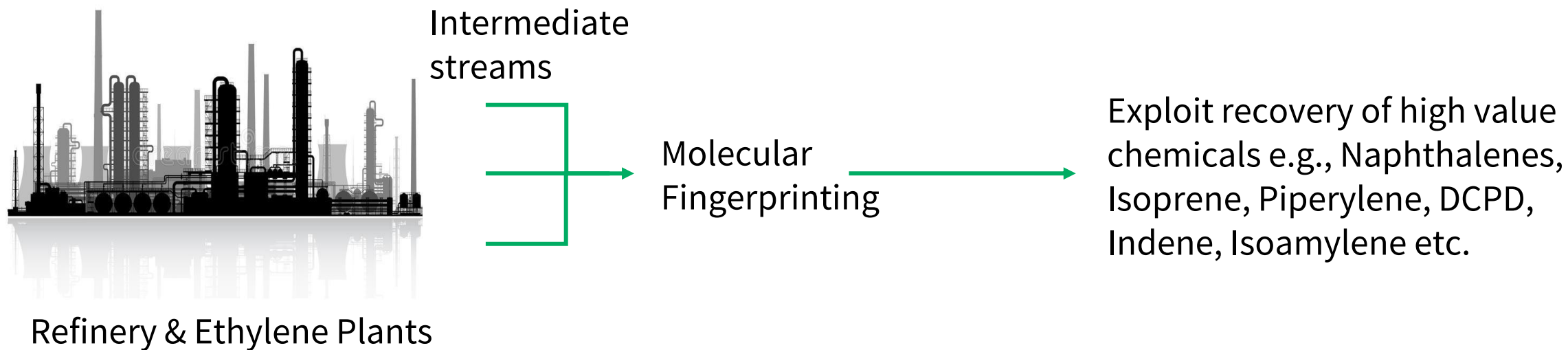


Hydrogenation : Boon/Bane ?

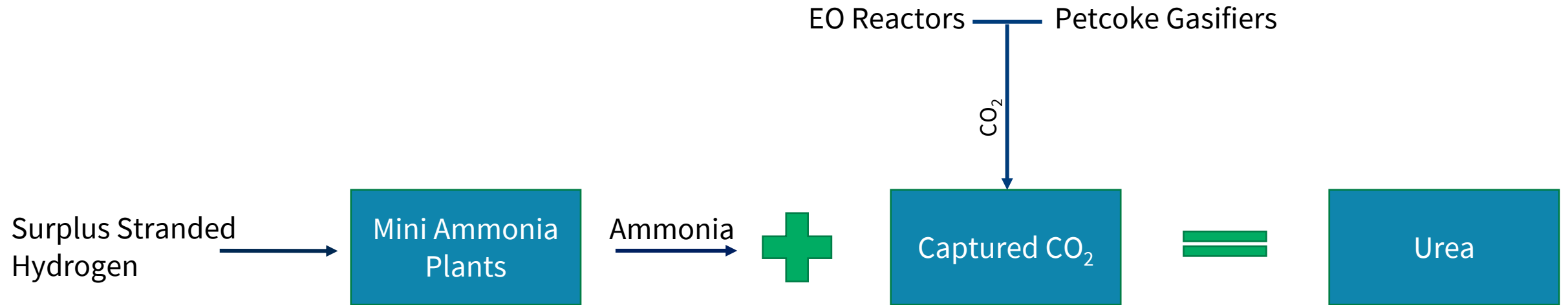


- ▶ Refiner needs to hydrogenate unsaturated hydrocarbon (olefins) & benzene for producing fuels or recycle for processing.
- ▶ It is better to extract these olefins /aromatics for value addition
- ▶ It will minimize hydrogen consumption & increase petrochemical output

Molecular fingerprint printing

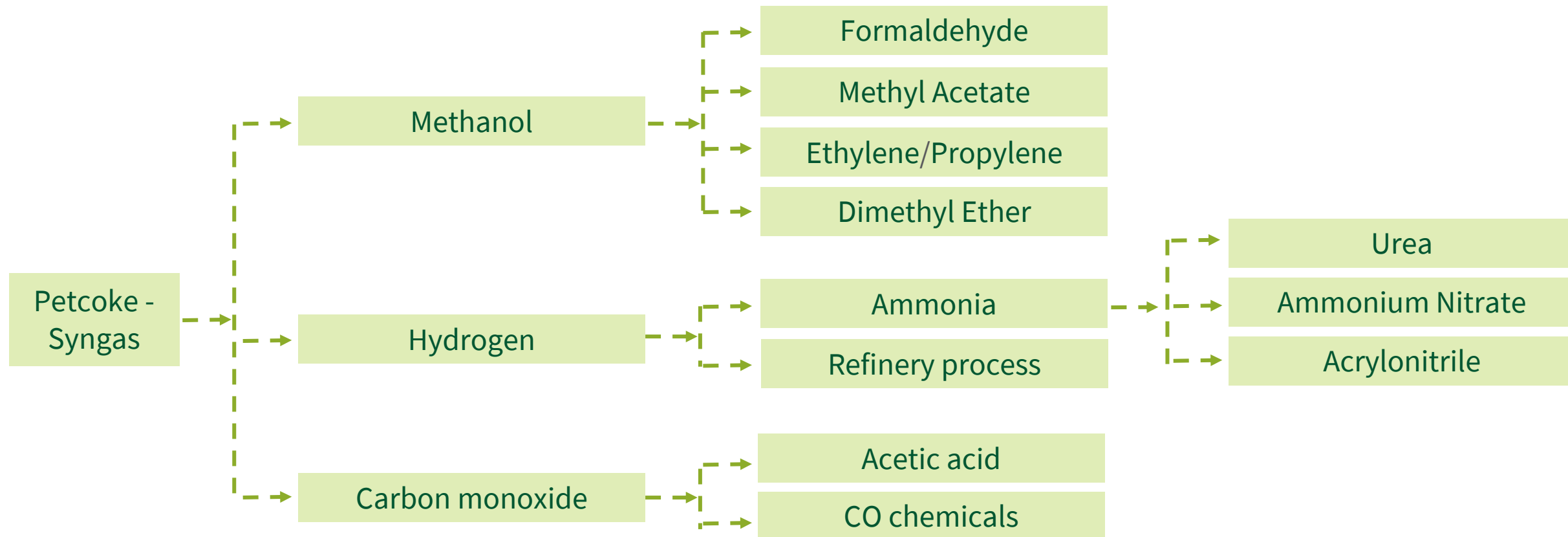


Utilization of Surplus H₂ & CO₂



Petcoke : Syngas based chemicals

- ▶ Petcoke is used/sold as fuel
- ▶ Petcoke gasification to produce Syn-gas based chemicals



Thank You

