

‘Making gas grids ready for transition’



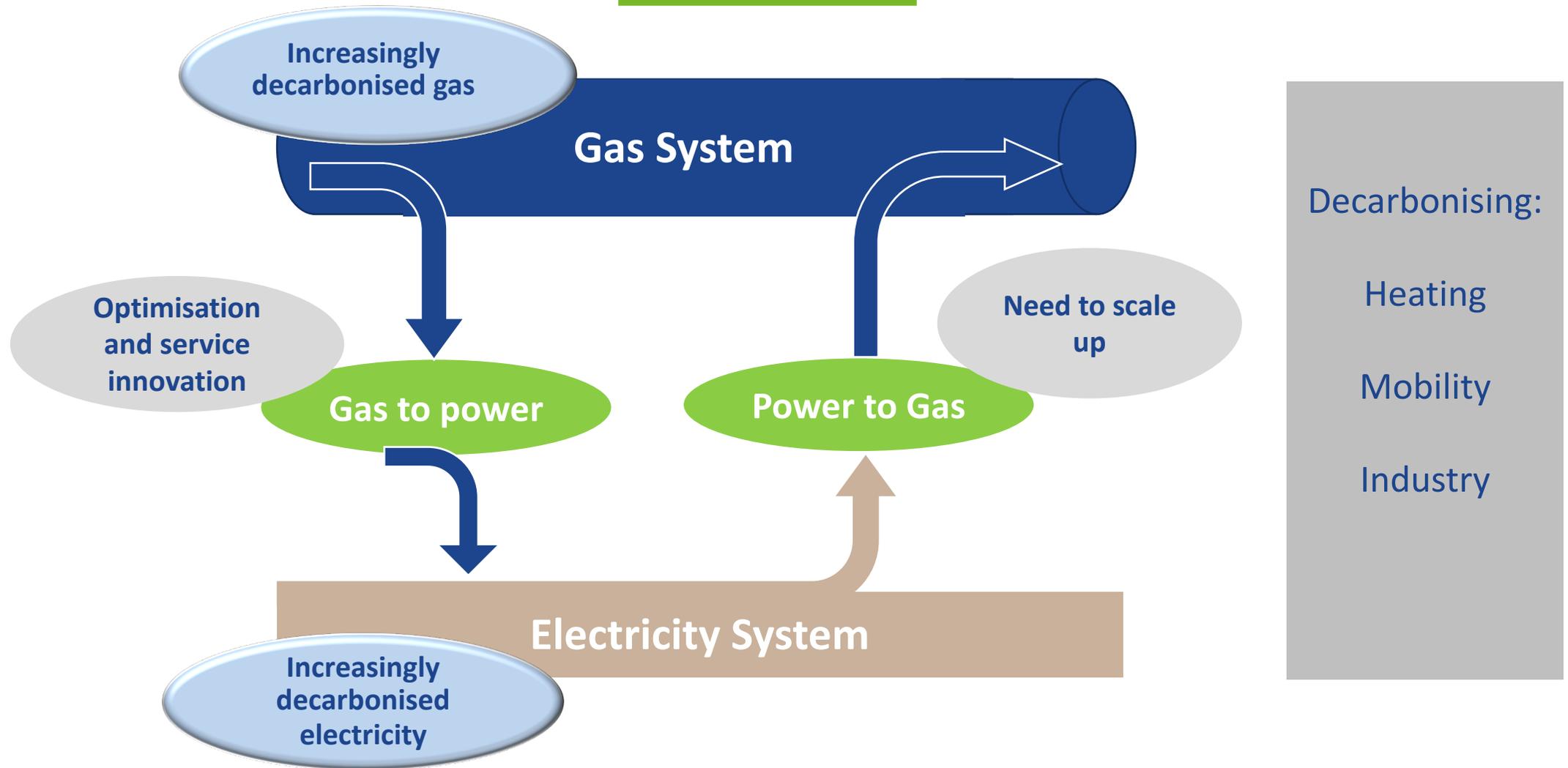
RGI Workshop: “The need for a climate neutral integrated system package for energy”

Session “Sector coupling and integration: how to deliver decarbonisation across the board”

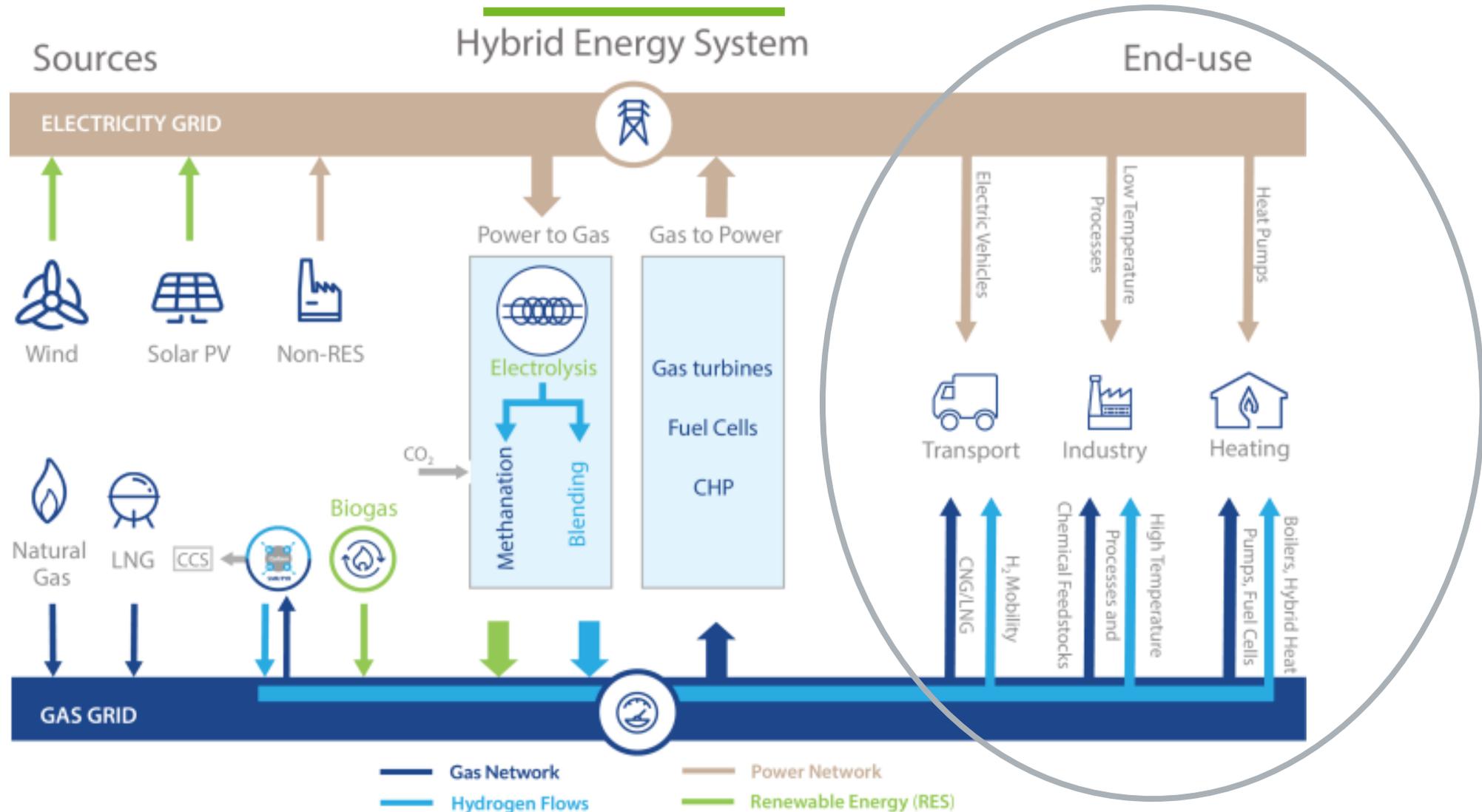
Anne Boorsma, Director System Development, ENTSOG

Location, Date: Brussels, 20.11.2019

Hybrid Energy System



Hybrid Energy System & Hydrogen



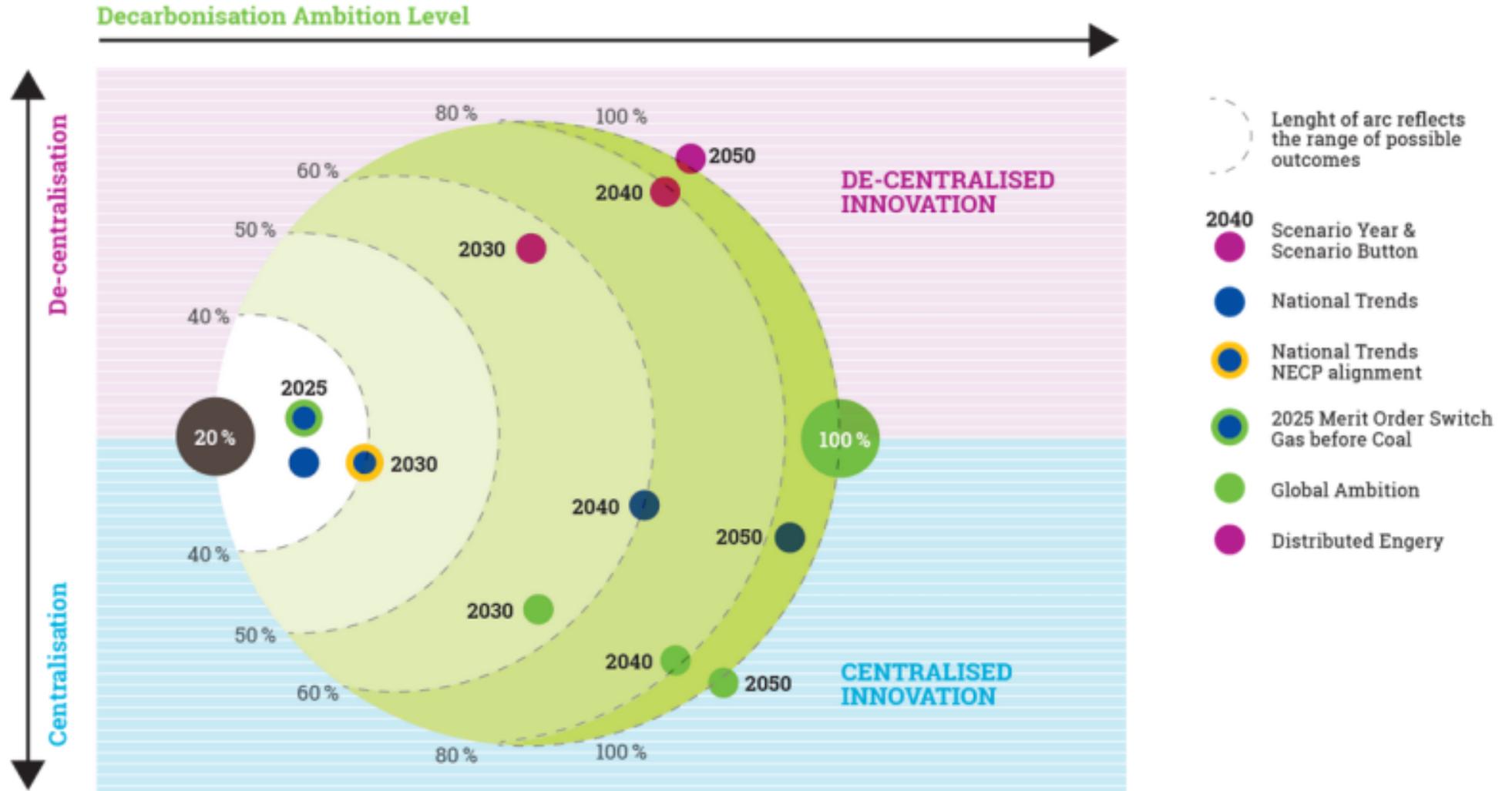


Joint ENTSOs TYNDP 2020 Scenario Report

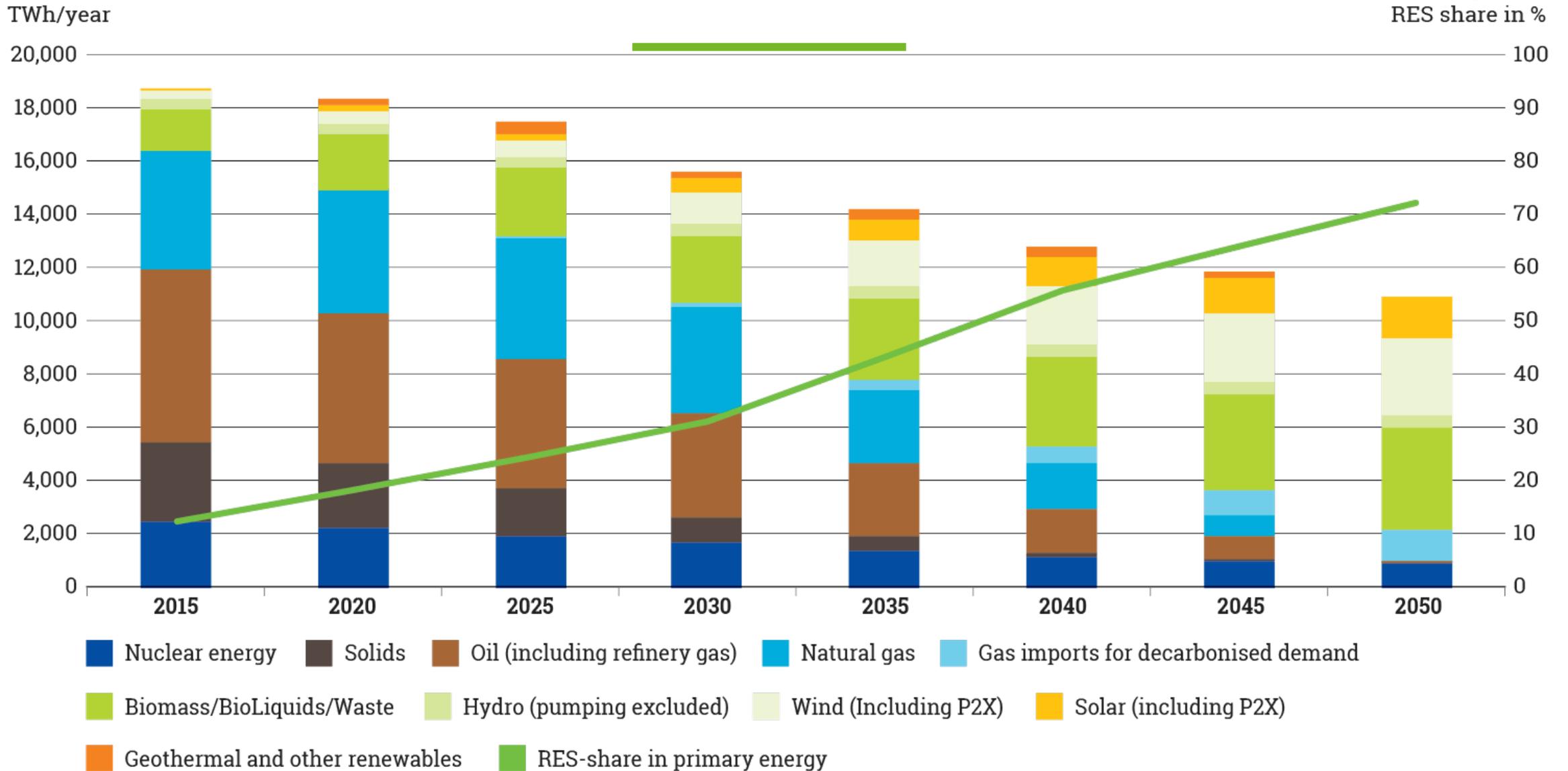
Game Changer & Cost Reduction Management

STATUS QUO

Game Changer & Cost Reduction Management



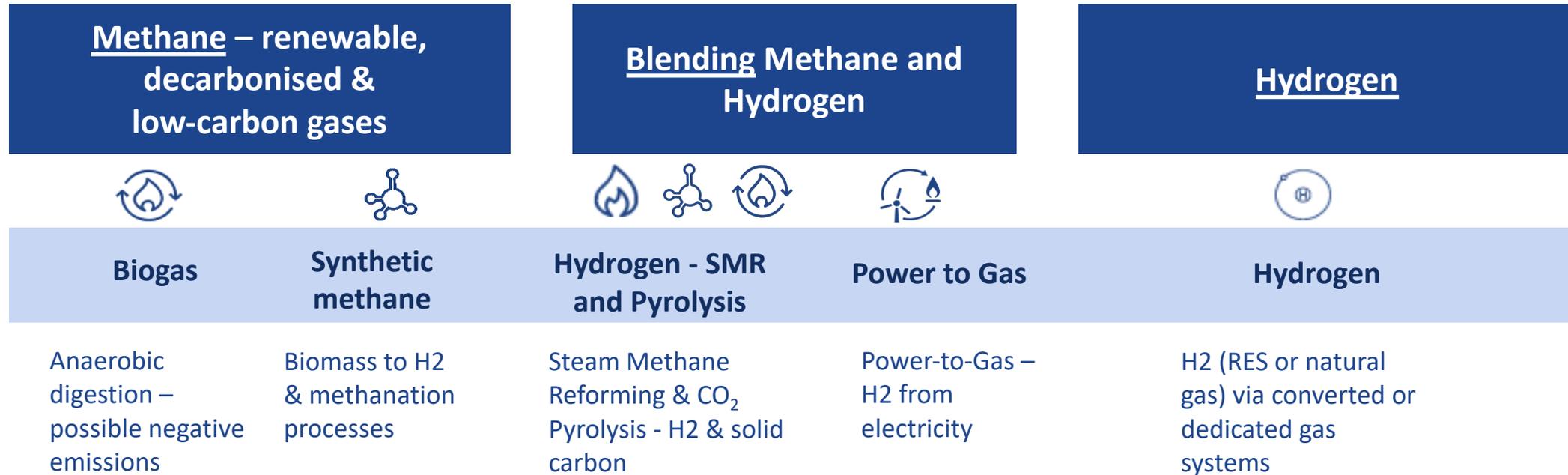
Primary energy mix and RES-share in Distributed Energy Scenario



For the COP21 Scenarios, the overall energy mix becomes carbon-neutral by 2050

ENTSOG Roadmap 2050

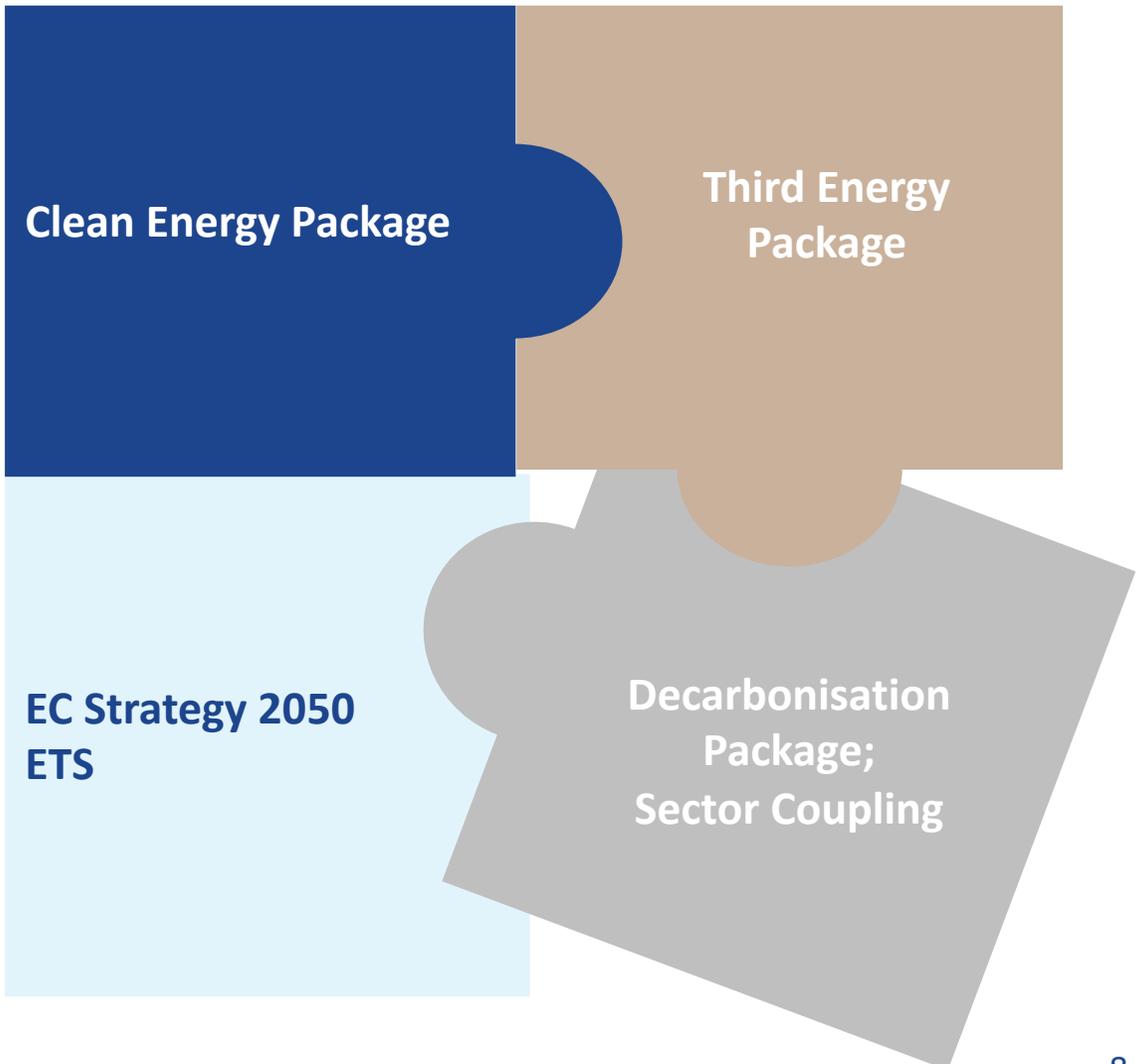
Co-existing Pathways for Decarbonisation of Gas Grids



Common Enablers:

R&D + scalability, CCUS, Gas Quality Handling Services etc.

Heading Towards Sector Coupling



Source: Gas Connect Austria

*“The capacity of **offshore wind farms** could reach around **100 GW** by the year **2030** and the **PV capacity** installed is expected to increase to **60 GW** in **2020**. Using **P2G** technology could help to **accommodate** these quantities of renewable electricity”*

Klaus-Dieter Borchardt, Director of DG Energy, 2018



#gasmarket
#securityofsupply
#innovatewithgasgrids
#tenyearENTSOG

10 years

Thank you for your attention

Anne Boorsma, Director System Development, ENTSOG

Location: Brussels

Date: 20.11.2019

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