



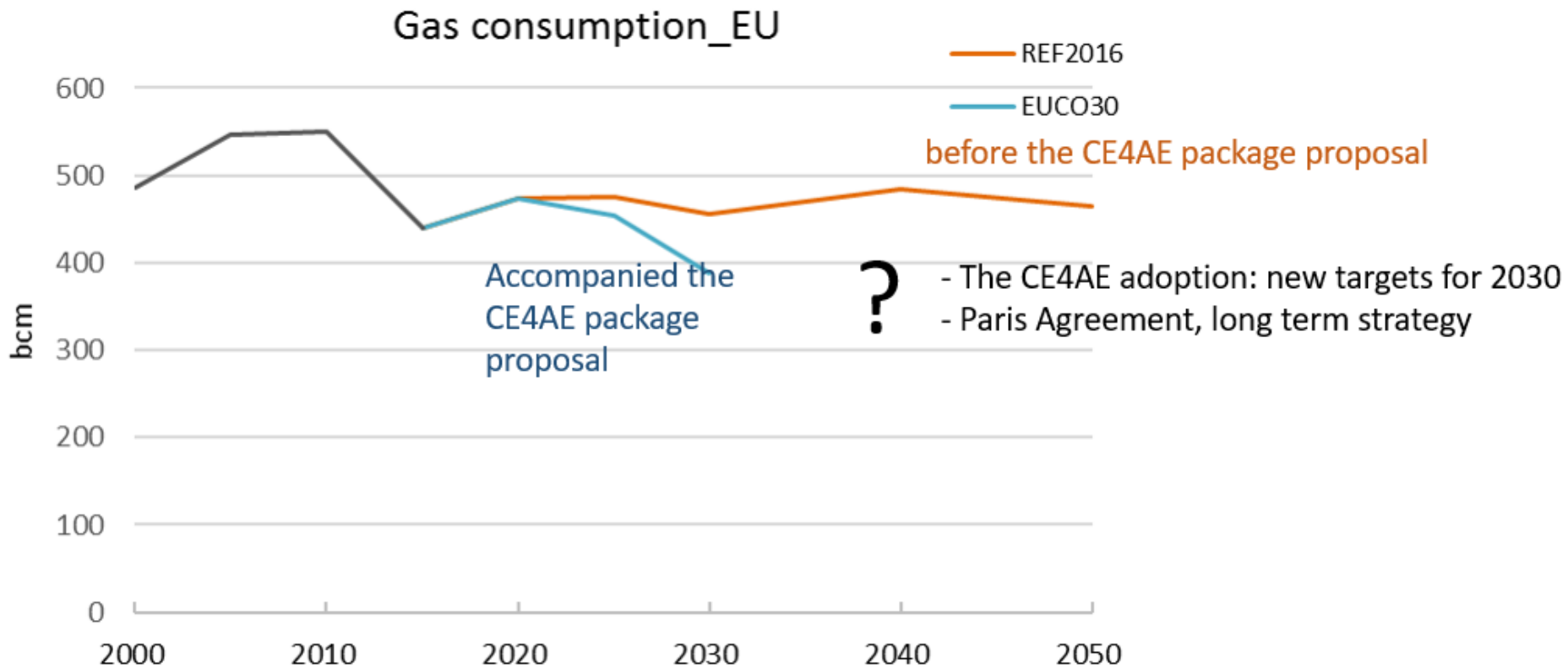
Study on sector coupling

The potential of linking the electricity and gas sectors

**European Commission,
DG Energy, B,2**

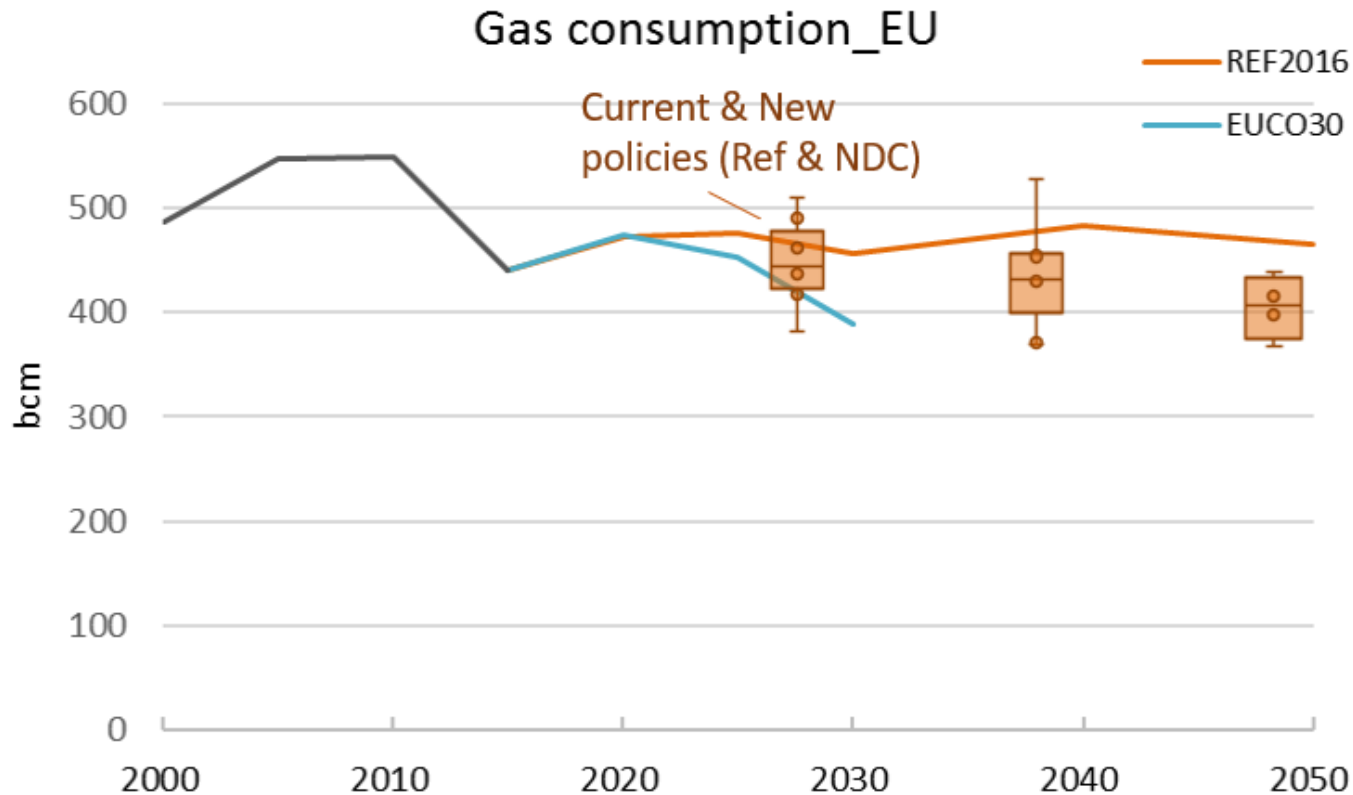
31st Madrid Forum, 16-17 October 2018

Future gas demand in the EU



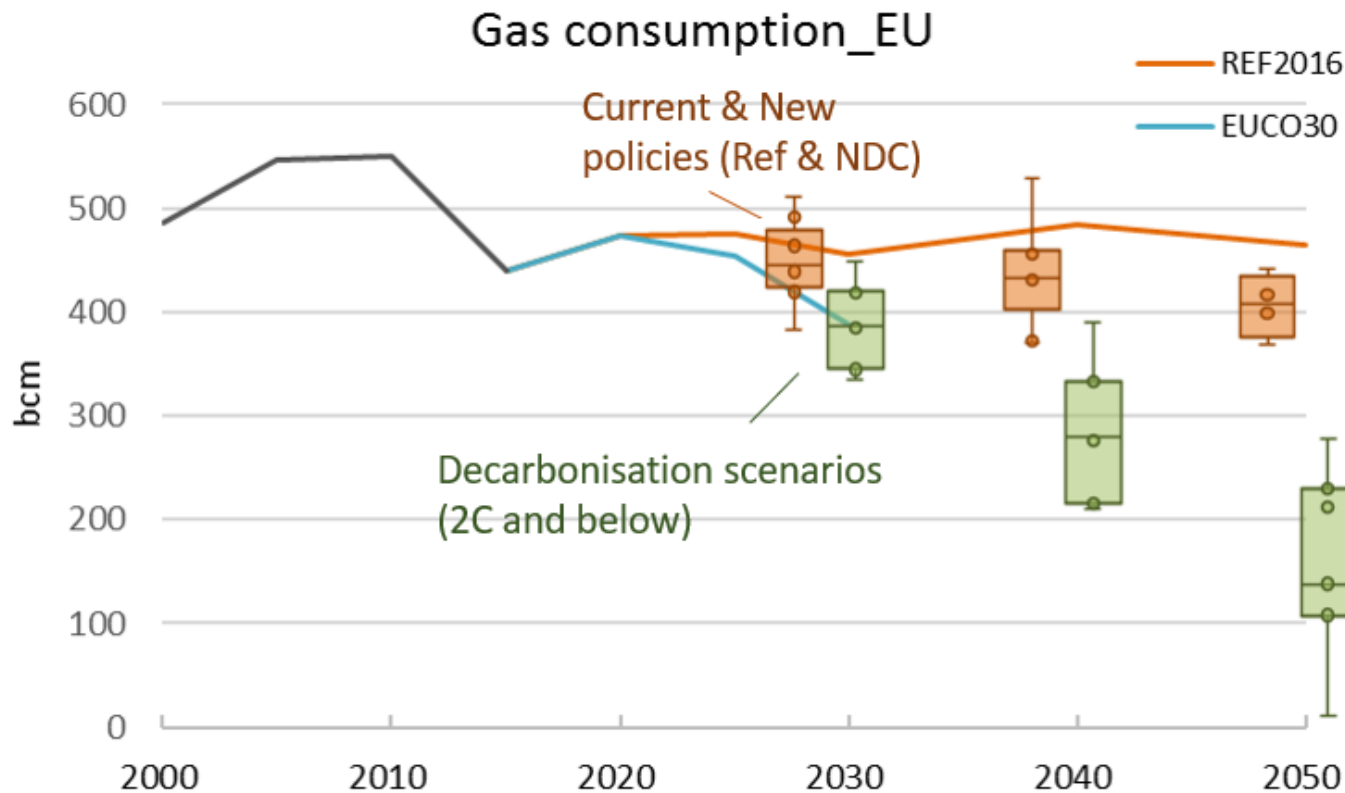
Source: PRIMES

Future gas demand in the EU



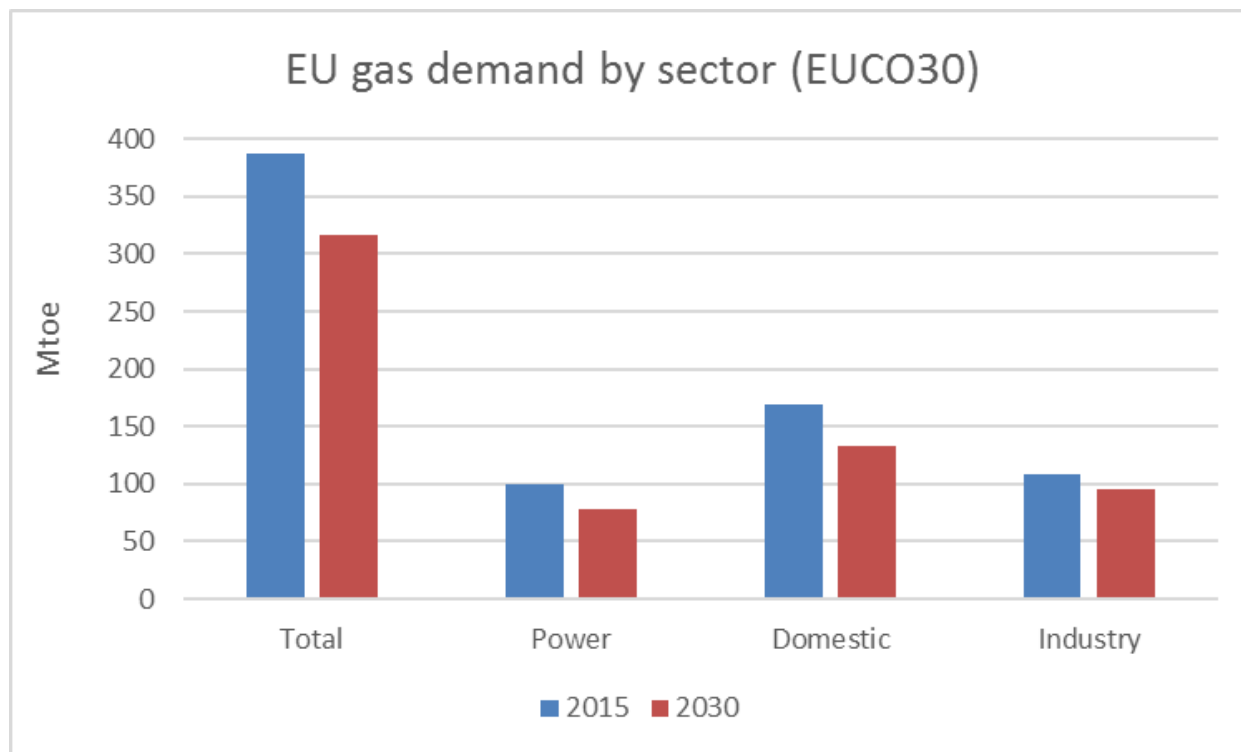
Projections by:
 IEA_WEO, IEA_ETP
 JRC_GECO
 BP_Outlook 2018
 Shell_Sky
 Equinor_2018
 IRENA_GET2050
 Oko Institut_Vision EU28
 Greenpeace_Energy Revolution

Future gas demand in the EU



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Sectoral gas demand in the EU



Energy efficiency plays a role, followed by competition in the power production sector.

Study on sector coupling – linking the electricity and gas sectors

ISSUE:

The role of the EU gas sector in the energy transition

OBJECTIVE:

- Identify and assess regulatory barriers/gaps potentially limiting sector coupling and deployment of renewable and low-carbon gases (incl. hydrogen).
- Recommend measures to remove such regulatory barriers/fill gaps – with focus on 3rd Package elements.

Study on sector integration – Methodology

Energy mix

- Qualitative description of a possible future energy mix compatible with the EU's energy targets and climate goals, representing a mix of energy carriers (renewable or decarbonized by 2050)

Role of gas

- Within this energy system, the possible role of gases in the energy transition process

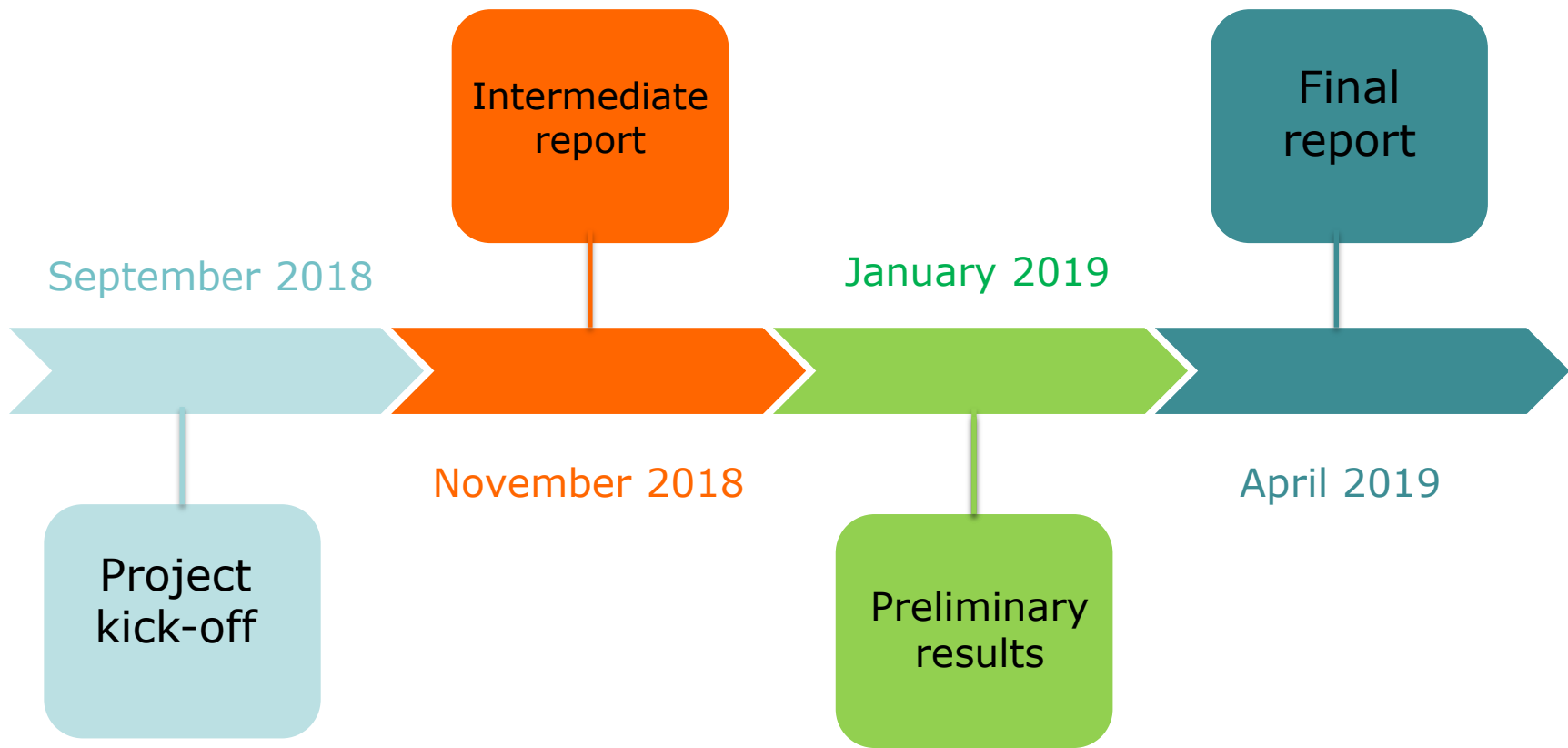
Barriers

- Identification of potential regulatory barriers and gaps which might limit the linking of the electricity and gas sectors and the deployment of renewable and low-carbon gases

Recommendations

- Options for measures to remove regulatory barriers/fill regulatory gaps with focus on 3rd Package elements, which allow for the participation of relevant technologies and energy carriers

Study on sector integration – Timeline





European
Commission

Thank you for your attention!
<http://ec.europa.eu/energy/>