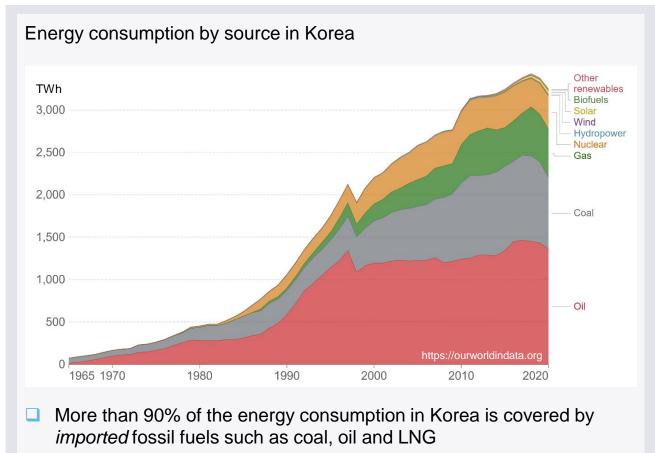
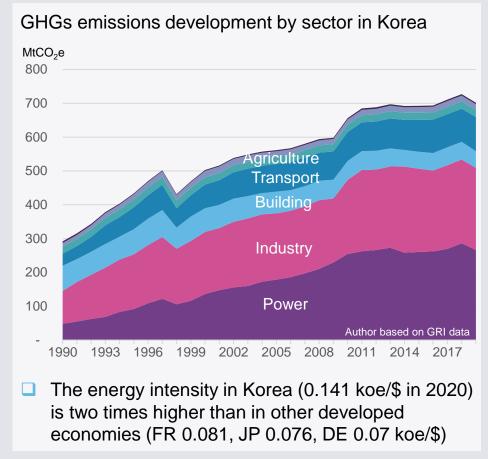






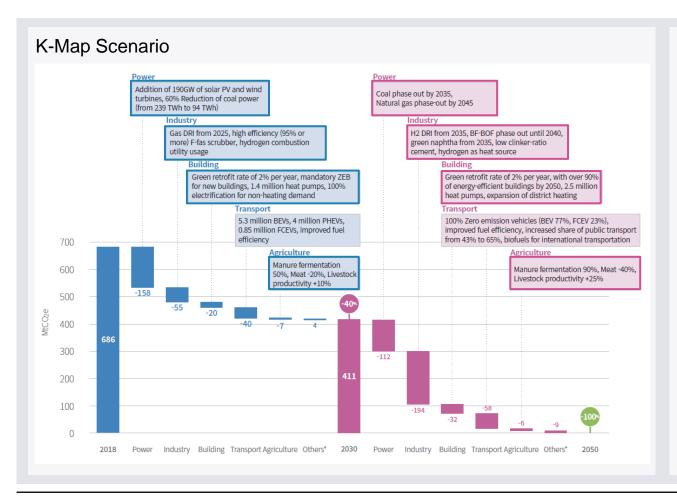
## An ambitious net-zero roadmap in Korea implies a radical U-turn away from *carbon-intensive* path dependency







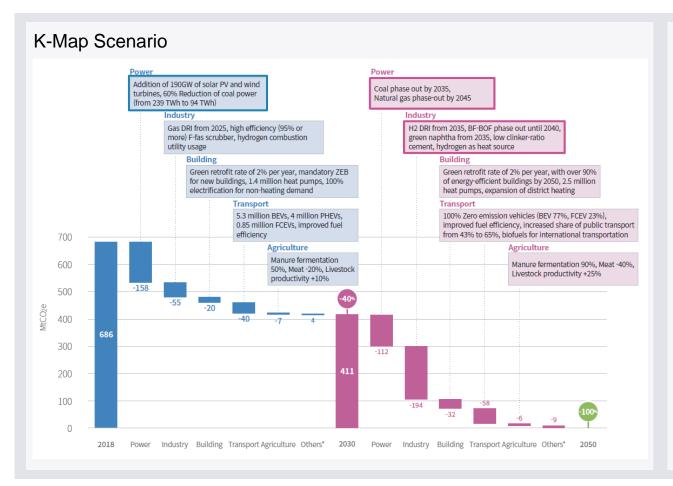
## Current climate measures must be significantly accelerated in order to reach climate neutrality.



- Most climate protection measures needed to reach net-zero are already in place, but their scope and speed is limited:
  - Renewables Portfolio Standard established in 2011 does not guarantee investment stability
  - b) K-ETS is negligible to reduce emissions in power and industry sectors
  - Zero Energy Building announced in 2014, but mandatory for private buildings in 2025
  - d) Manure fermentation is still optional
- Renewables have not been given yet political predominance, since wide technology options are still under discussion (role of SMR, CCUS, blue hydrogen)
- → K-Map strongly request to establish *climate* protection as the country's top priority



## An ambitious net-zero plan presents important opportunities for the *manufacturing-based export-oriented* Korean business



- Most carbon-free technologies are still immature in Korea
  - a) Floating offshore wind turbines
  - b) Energy storage
  - c) Green electrolyzer
  - d) Hydrogen based DRI
  - e) Green naphtha with CCU
- The road to carbon neutrality represent a major opportunity for technological leadership
- → Our roadmap shows a clear direction for Korean manufacturers



## The Next Korean Presidency will be key to implement an ambitious and coherent net-zero policy

- □ Election is the biggest *window of opportunity* for policy action in representative democratic states
  - New German government (Dec 2021): successfully strengthened climate protection ambitions with higher RES promotion target and earlier coal phase-out
- Korean Presidential Election on 9th March 2022
  - Minor interest in climate protection: economical and social equality as the main topic during the campaign
  - All candidates promising economic growth and job creations, but propose different solutions: energy transition and climate
    protection for the liberals, advanced scientific technologies for the conservatives
- → 2022 and 2023 as critical years for climate actions in Korea
  - Power to change only in the first two years given the Korean presidential system with a single five-year term
  - The framework condition for an ambitious net-zero roadmap should be implemented by the next presidency in Korea

Agora Energiewende Anna-Louisa-Karsch-Str.2 10178 Berlin **T** +49 (0)30 700 1435 - 000 **F** +49 (0)30 700 1435 - 129

www.agora-energiewende.de

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