



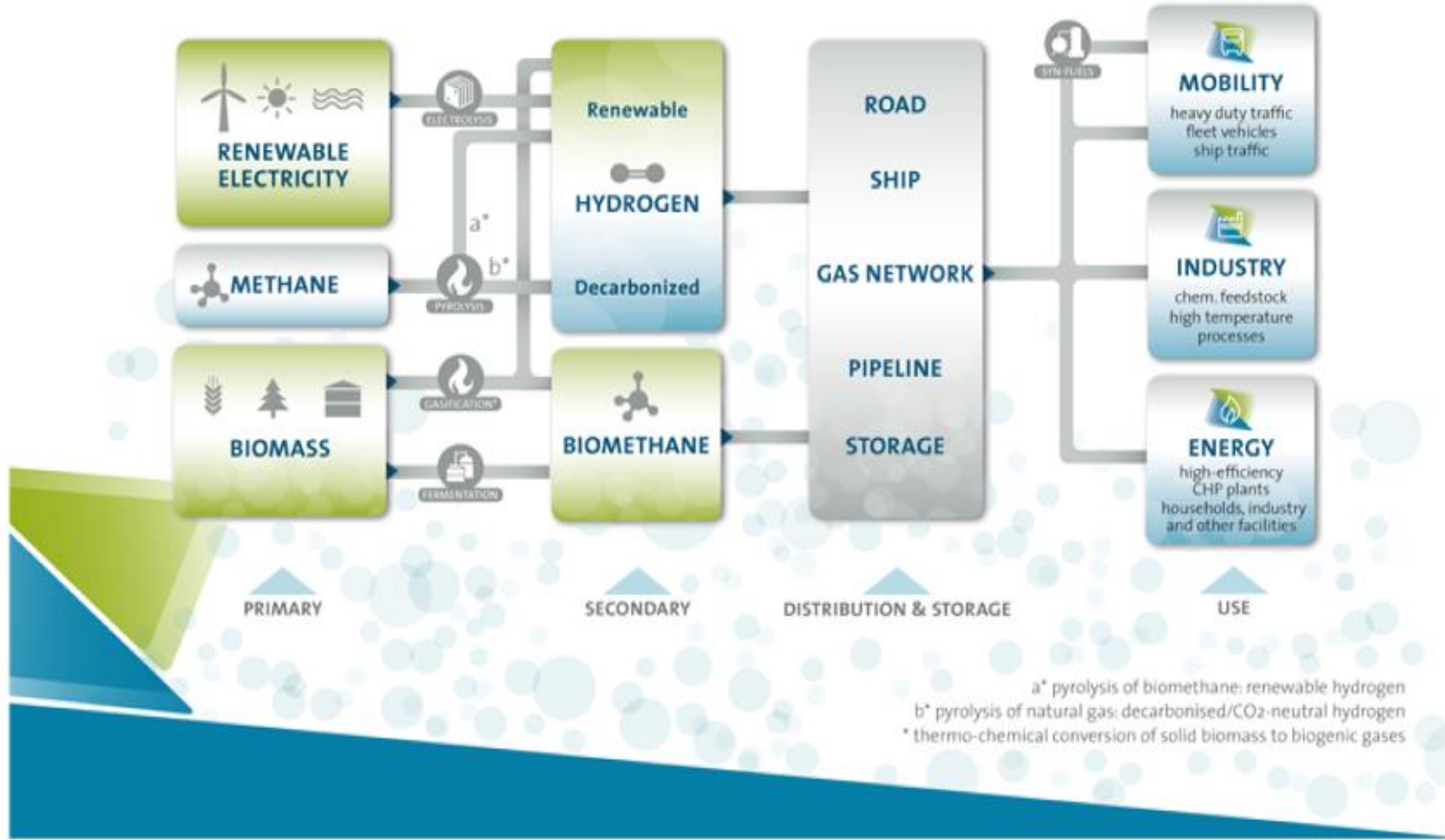
## Hydrogen Initiative Flagship Region Austria Power & Gas

## The Energy Model Region WIVA P&G

- **Demonstrating the conversion of the Austrian economy to a largely CO<sub>2</sub>-free, or CO<sub>2</sub>-neutral structure with a necessary transformation towards a strongly hydrogen-based – and thus also renewable gases based – energy system.**
- **Green hydrogen as a key component in this process**
- **WIVA P&G includes Austrian companies reflecting the entire value creation chain**



# Renewable Gases in the Economic System



## The Energy Model Region WIVA P&G

- **Austrian-wide, supra-regional thematically focused and internationally visible region focusing on three segments:**
  - Green Energy
  - Green Industry
  - Green Mobility
- **WIVA P&G is an association that is coordinating and implementing the model region**
- **WIVA P&G contains the experience of more than 30 completed and ongoing projects and is going to implement 25 sub-project within the model region**



## Potential for hydrogen and fuel cells in maritime applications

- **Studies emphasize the potential of H<sub>2</sub>-based propulsion technologies for shipping sector**
- **Several pilot- and demonstration plants realised – research gap regarding logistical, infrastructural, economical concepts**
- **Constant improvements regarding shipping infrastructure – sector is expected to grow**
- **EU White Paper: shift in freight transport from road to shipping – opens up chances for shipping sector**
- **Danube Region is supposed to become the most frequented corridor within Europe regarding traffic volume (Federal Ministry for Climate Action Austria)**



# Potential for hydrogen and fuel cells in maritime applications

- **Optimal application of green hydrogen technologies**
  - Federal Ministry of Climate Action Austria – Green Hydrogen in Industry and heavy-duty mobility
- **Stakeholder analysis regarding hydrogen infrastructure in the shipping industry**
  - Determine the potential for H<sub>2</sub>-based propulsion technologies for the shipping sector
  - Developing an international concept regarding the necessary infrastructure along the Danube
  - Considering legitimate, regulatory and administrative requirements
  - Considering synergy potentials regarding H<sub>2</sub> Infrastructure of other sectors (logistics, etc.)



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VORZEIGEREGION  
ENERGIE

WIVAP&G  
Energy Model Region

Thank you for your attention!

