



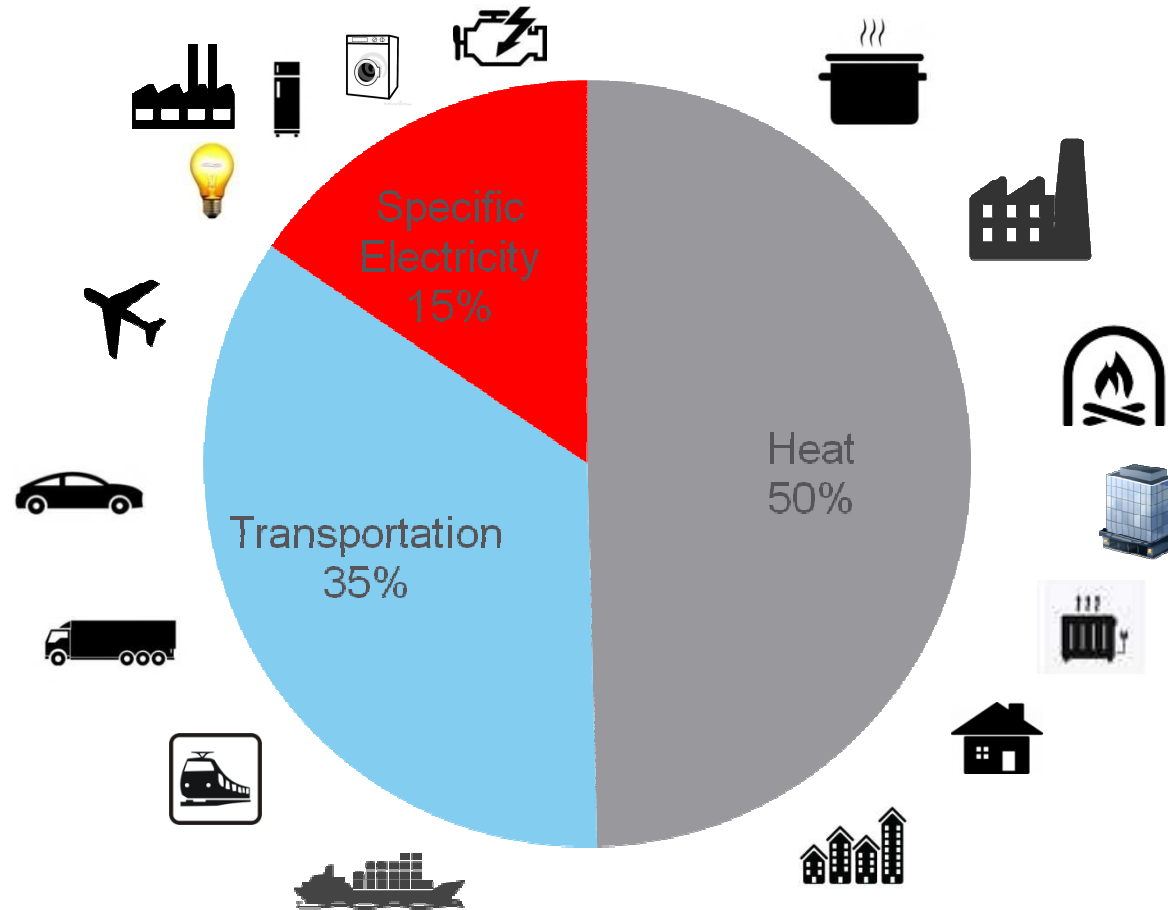
Office Franco-Allemand pour les EnR

Débat : le biométhane, quelles pistes de développement privilégier?

Paris, 26 Février 2015– Mathieu LEFEBVRE

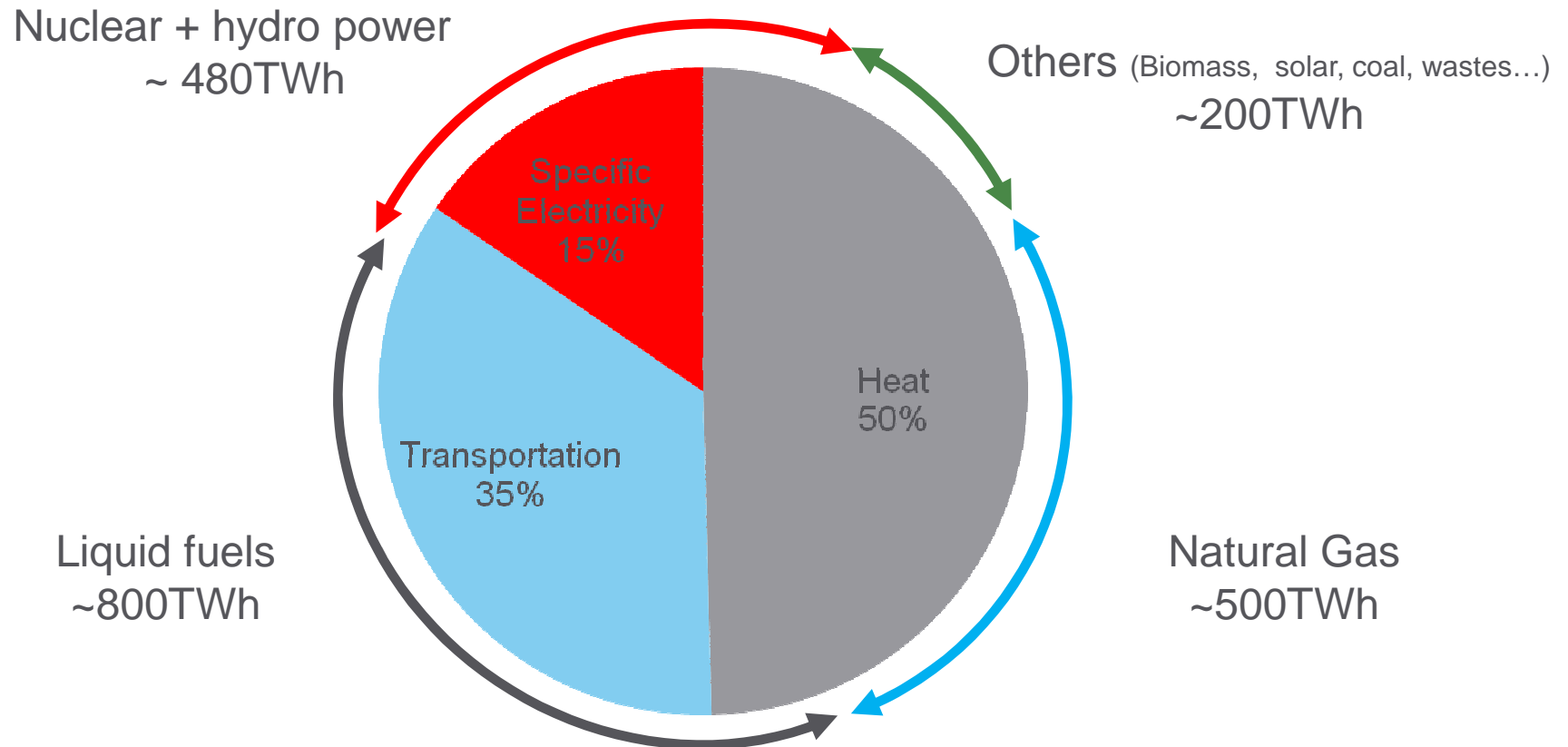


Uses of energy resources ?



Final energy consumption in France

Primary energy sources today

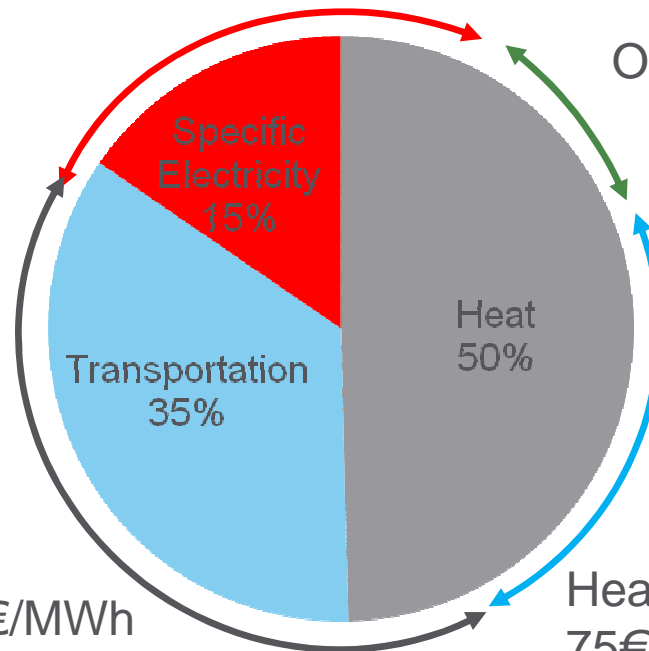


Final energy consumption in France ~2000TWh

EnR sources and prices vs market demand ?

Power market price: 90 to 200€/MWh

- Hydro ✓
- PV ✓
- Wind ✓
- Biogas from Energy crops ☒
- Biogas from Wastes ?



Others (Biomass, solar, wastes...)

Fuel market price: 110 to 150€/MWh

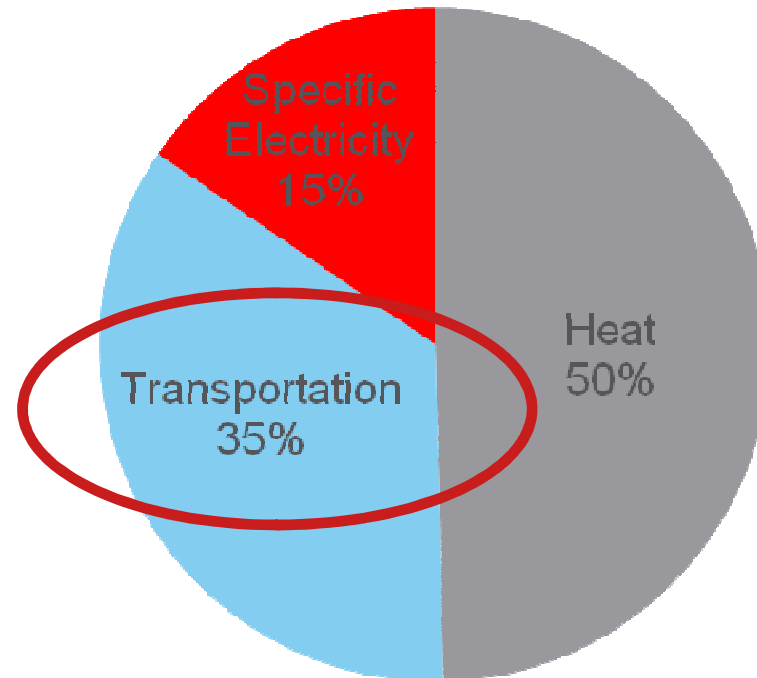
- Biomethane from wastes ✓ ✓
- Biomethane from energy crops ✓
- Bio-ethanol ?
- Biodiesel / diester ?

Heat market price: 40 to 75€/MWh

- Biomethane from wastes ?
- Biomethane from energy crops ☒
- Biomass heat in general ✓ ✓
- Solar heat ✓

How to develop biomethane ?

Final Energy consumption in France



Want to seriously increase biomethane production?
Let's focus on customers willing to pay a price covering the production costs 😊

Possible in France and Germany ?



Clean transport : (Bio)CNG / (Bio)LNG



Air Liquide is integrating Fordongas

We are the leading provider of CNG and LNG to the Swedish road transport sector

