

# Energy Now

ENERGY TRANSITION SEEKS INFRASTRUCTURE FOR  
LONG-LASTING RELATIONSHIP

Jörg Gigler – TKI New Gas

Koen Wiersma – Gasunie New Energy

# TKI New Gas – part of Topsector Energy

The Topsector Energy aims at:

- Making the energy transition happen
- Creating economic value



Organised through 5 TKI's: Top Consorts for Knowledge & Innovation (PPS)



**Offshore Wind**



**Energy & Industry**



**Urban Energy**



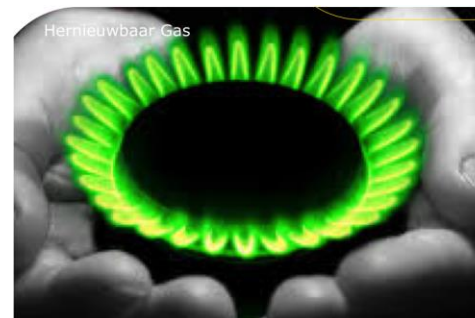
**Biobased Economy**



**New Gas**

# Gasunie New Energy

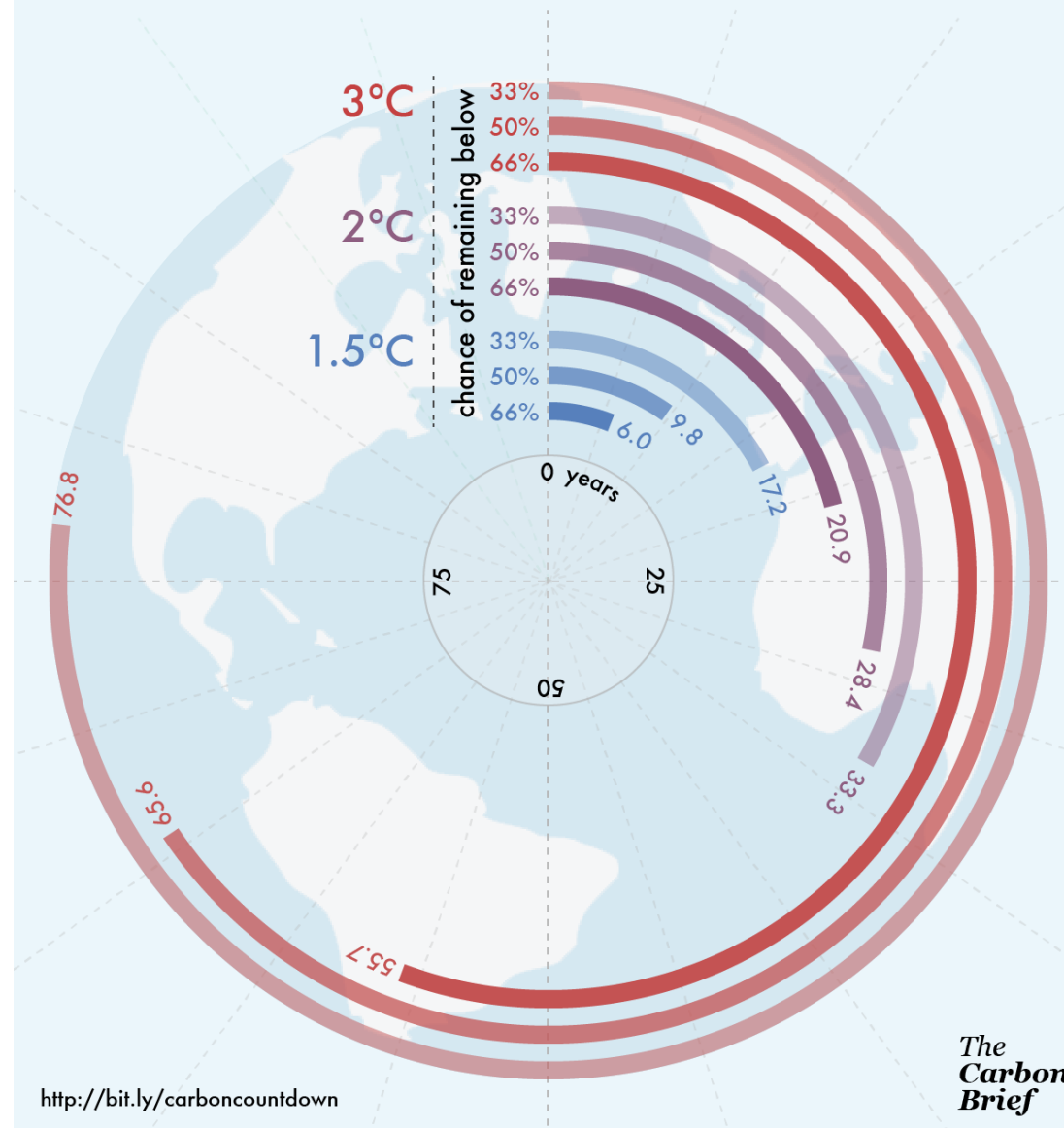
- We develop business opportunities in sustainable energy
- We create new business models in cooperation with partners, needed to bring new concepts and technologies to maturity



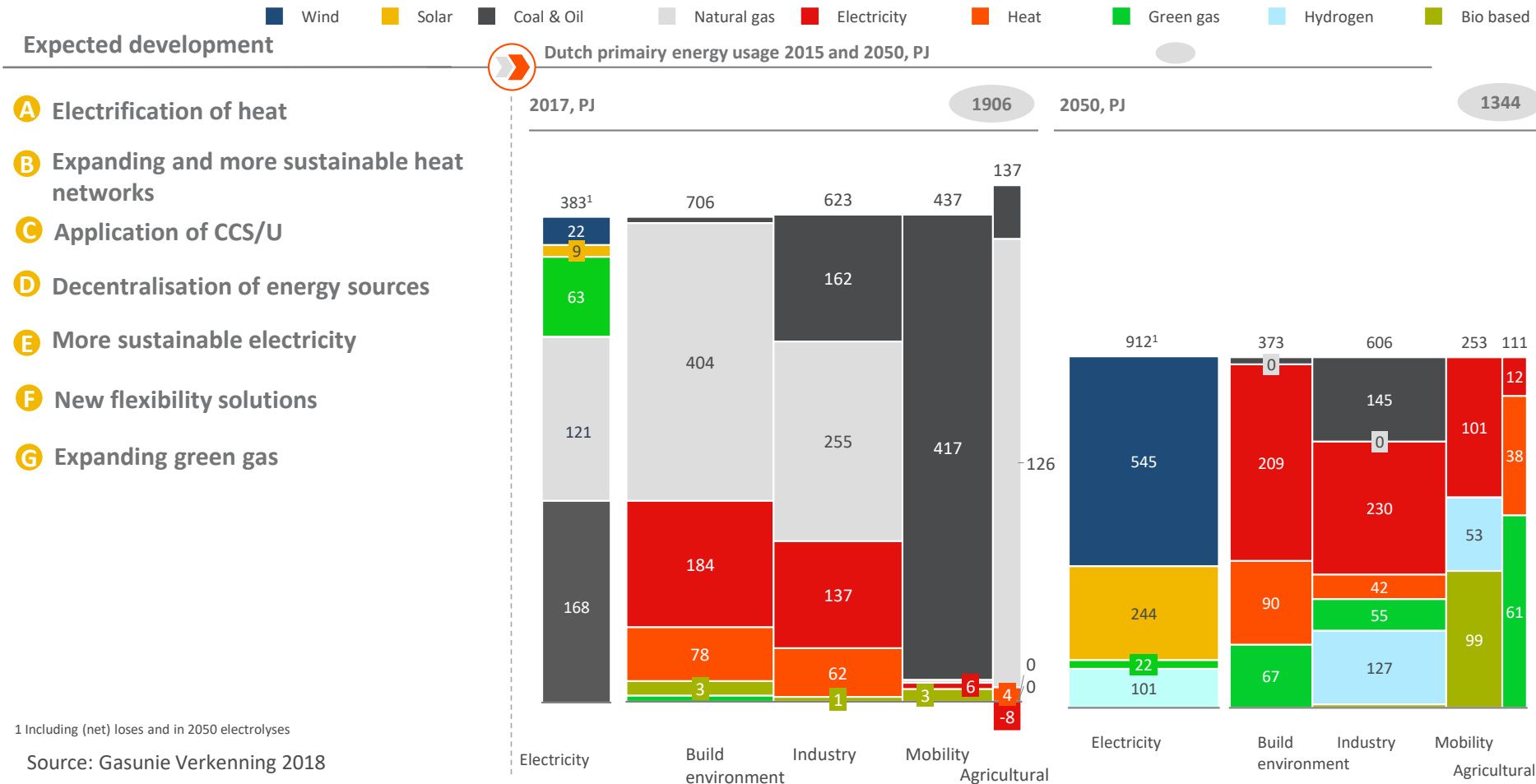
# Climate goals

## Carbon Countdown

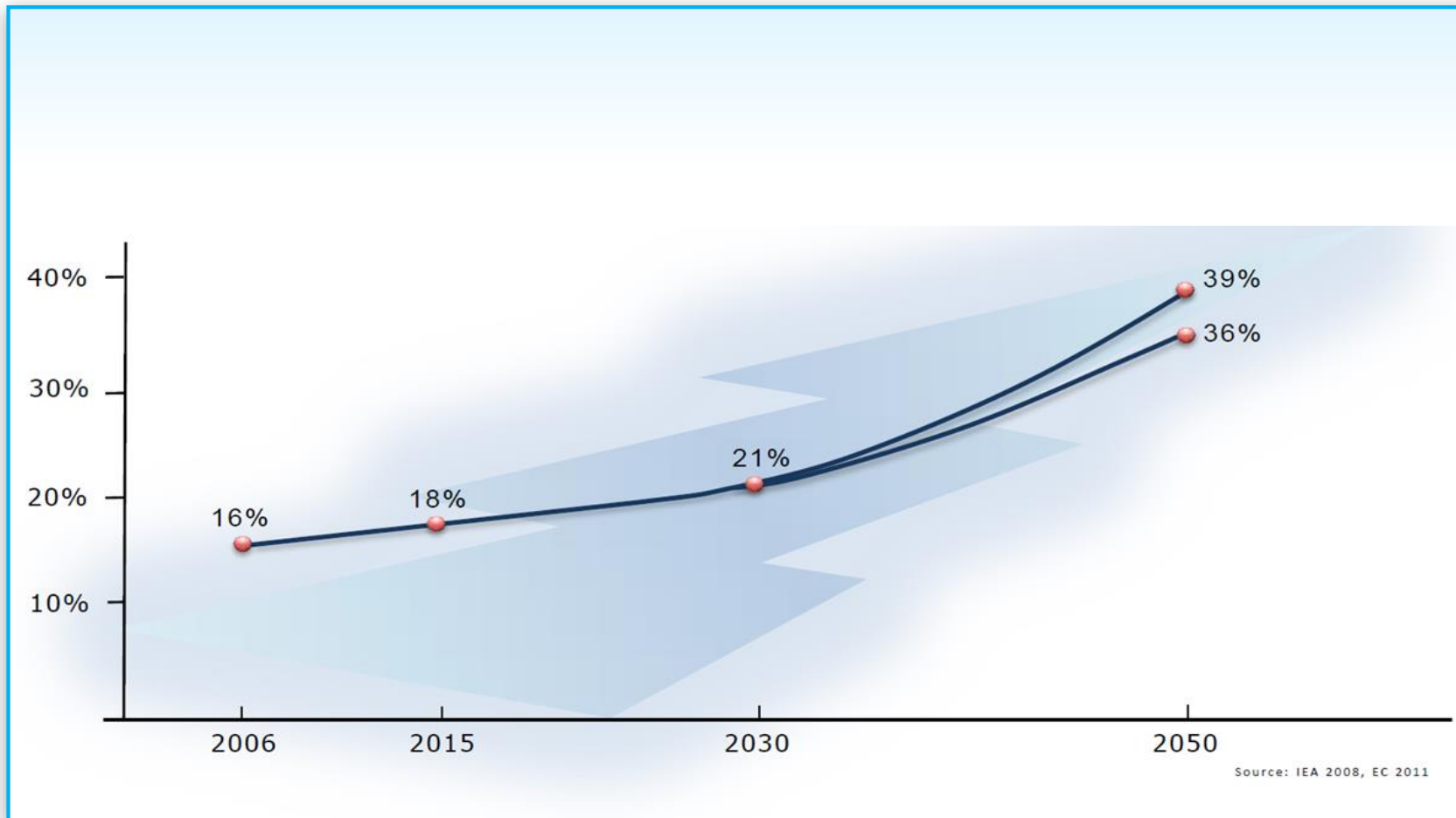
How many years of current emissions would use up the IPCC's carbon budgets for different levels of warming?



# To achieve climate goals, the energy system will become more sustainable, diversified, and more decentralized



# Electrifying the energy system



# Infrastructure is needed

- Electricity
- Natural gas
- Green gas (biogas, biomethane, biosyngas etc)
- Hydrogen
- CO<sub>2</sub>
- Heat

and don't forget water, telecommunications, ...

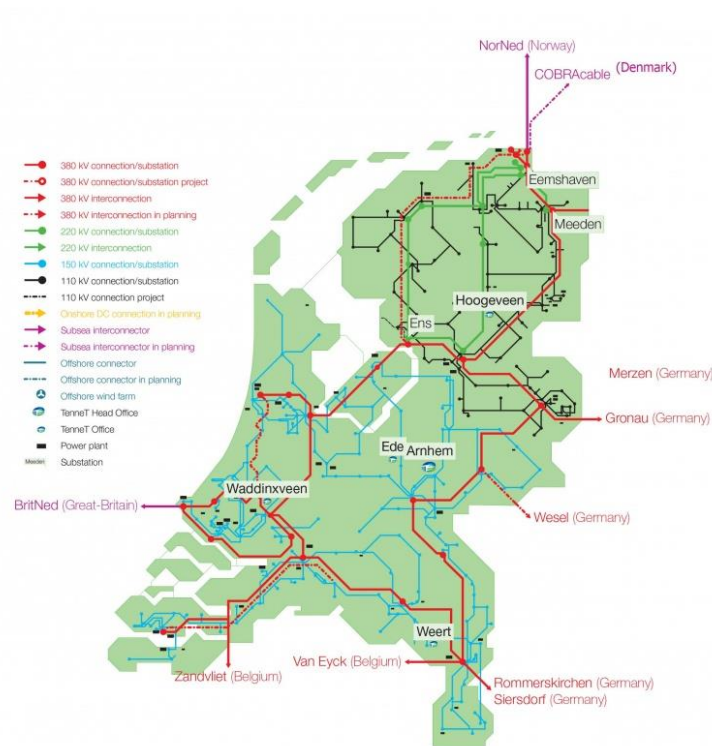
# Current situation (1)

- A lot of infrastructure is already in place

Gas

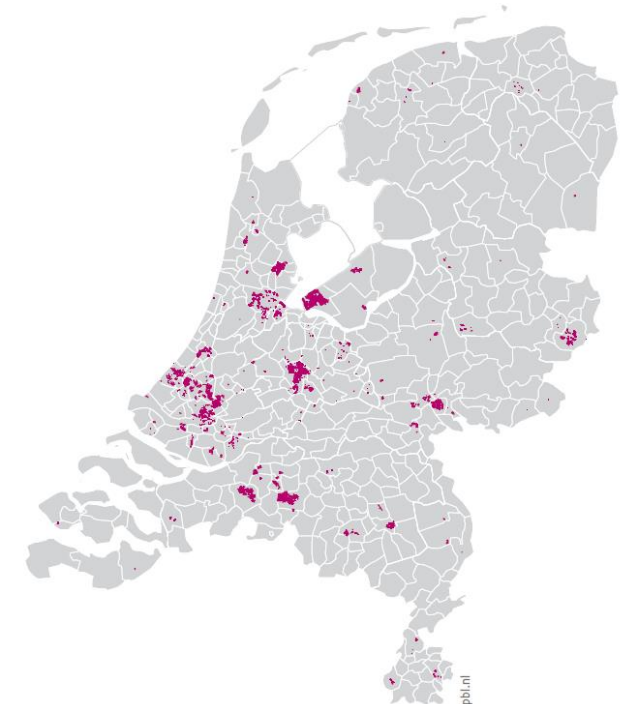


Electricity



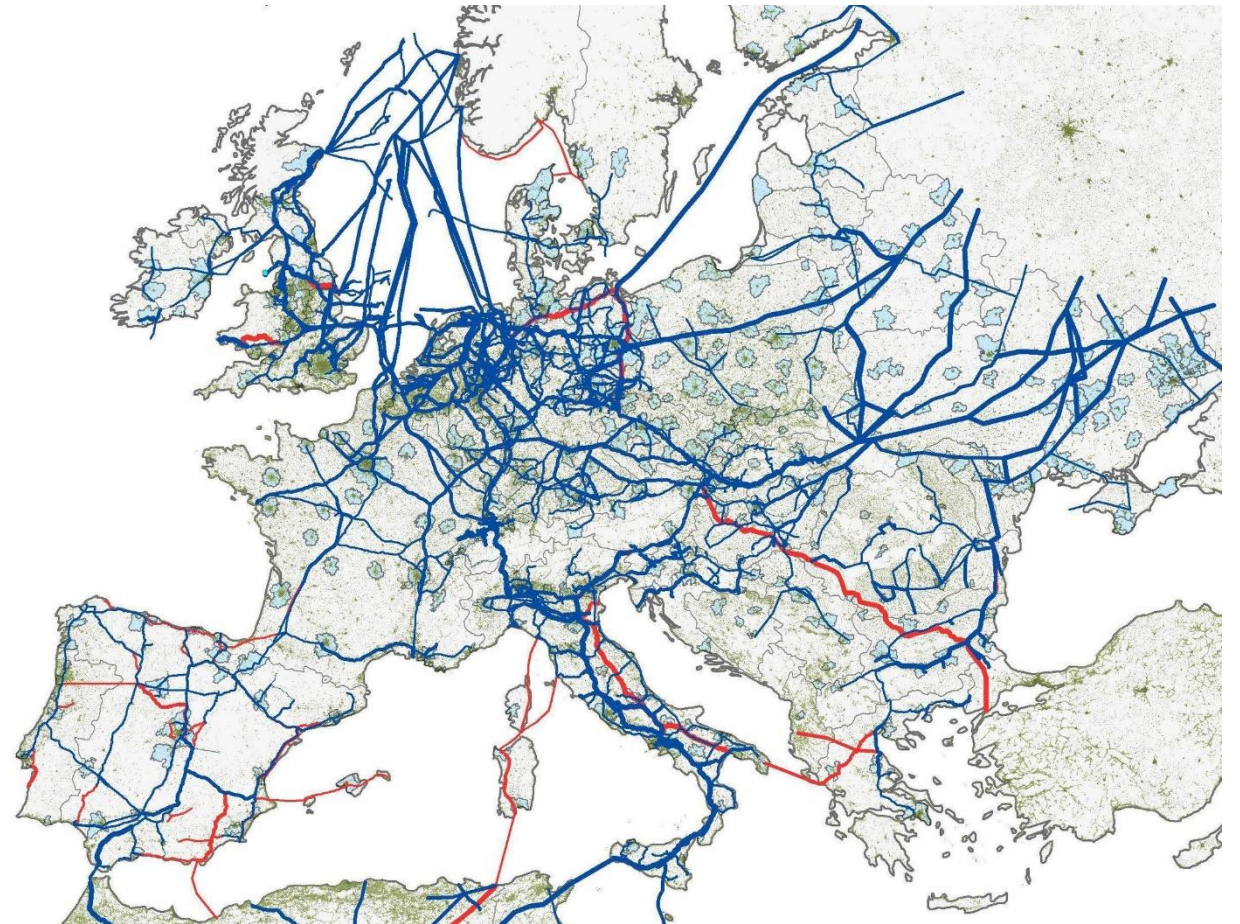
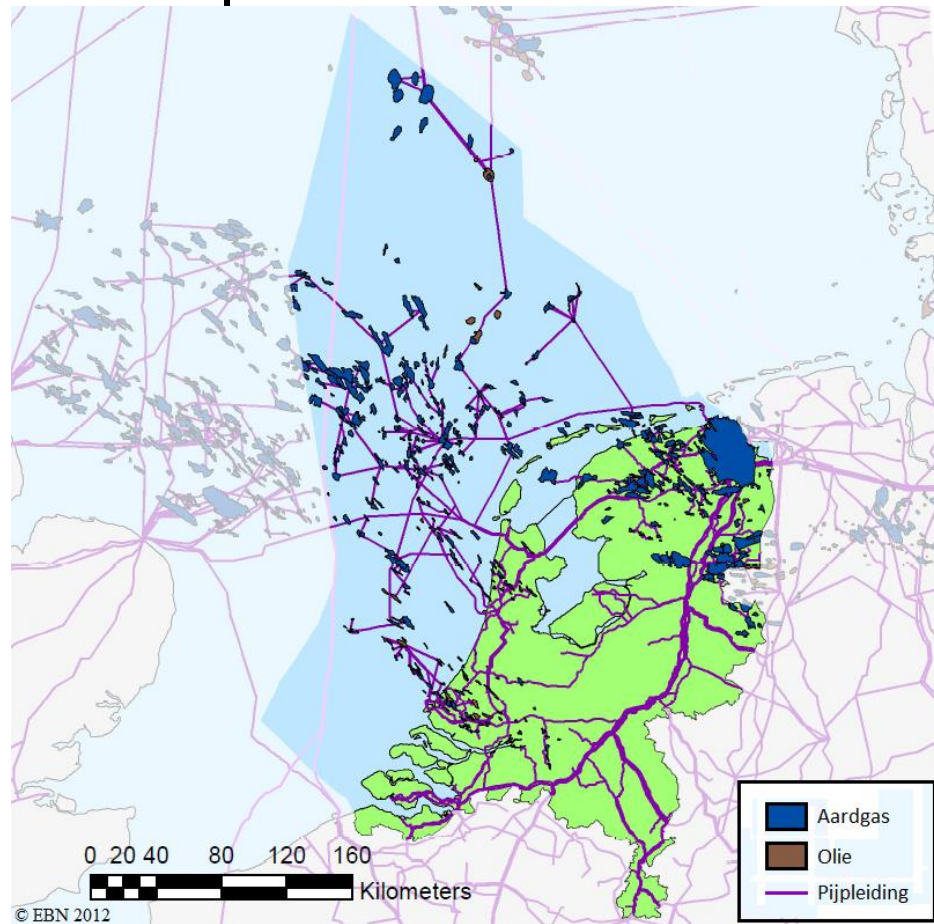
Heat

Figuur 7.2  
Warmtenetten, 2015



# Current situation (2)

- Europe



# Question to you...

- How can we use the infrastructure as efficient as possible?
- How to deal with infrastructure that is not needed anymore?
- How to expand the infrastructure as efficient as possible?
- How to deal with onshore versus offshore and what about international connections?

Share your thoughts with us: what would you do?

# How to work...

- Groups of 4-6 persons
- 60 minutes of discussion
- Each group will give a 3 min presentation about their findings
  - What are your thoughts, what is your advice?
  - What are the main uncertainties you came across?
- Wrap up