

Hydrogen train pilot

Toward a hydrogen economy

Province of Groningen

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Questions I am going to answer

- Why we became a member of Hyer?
- Why the province of Groningen wants to contribute to a hydrogen economy?
- What place takes the hydrogen train in this perspective?
- How can we learn from each other and work together?

Why we became a member of Hyer?

- Sharing knowledge
- Working together
- Getting faster an European hydrogen economy

Why Groningen wants a hydrogen economy?

- Earthquakes because of gas extraction
- New business models
- Paris climate agreement
- Dutch Energy agreement

Earthquakes because of gas extraction

- One of 10 biggest natural gas fields in de world
- Heavier and more frequent
- Alternative: hydrogen

Paris climate agreement: own goals

- Zero emission buses 2030
- Zero emission train 2050

What place takes the hydrogen train in this perspective?

- Common solution: train with overhead wire
- Costs €600 to €700 million Northern part of the Netherlands (payback time > 100 years)
- Hydrogen costs €300 to €350 million, including the cost of 40 necessary windmills

How can we learn from each other and work together?

- CEF-T grant application for pilot
- Cross border cooperation with Lower Saxony (Germany)
- Pilot planned in 2019
- Corporation makes a positive business case more likely

Fields of interest for province of Groningen

- The use of hydrogen in public transport
- The production of hydrogen
- Using hydrogen as a storage method for electric power
- New business models

Province of Groningen:

A hydrogen economy under construction by working together

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