

# Welcome to 3rd Combined Energy Conference 2020

29th January 2020

Arnhem

#CombinedEnergy

# Hydrogen Workshop

Welcome !

Workshop Moderators:

Herman Prinsen (Netherlands Enterprise Agency)

Dr. Thomas Kattenstein (EnergyAgency.NRW)

# Hydrogen Workshop

**There's something here also for seasoned men and women,  
Still a thing or two for the experienced to learn  
Fresh wisdom to probe and penetrate,  
The rhymes and reasons of wise men and woman.**

***King Solomon***

# Programme Workshop 1, Hydrogen: Policies, research



Figure A4 Values of batteries

# Programme Workshop 1, Hydrogen: Policies, research

## Introductions by:

- Hydrogen policies Insights into North Rhine-Westphalia and H2-Roadmap NRW  
**Heinz-Uwe Lewe**, Policy Officer Ministry of Economic Affairs, Innovation, Digitalization and Energy of NRW
- Examples, plans and priorities in The Netherlands, opportunities for cross-border co-operation.  
**Dr. Jörg Gigler**, Managing Director at Top consortium for Knowledge and Innovation New Gas

# Workshop 1, Hydrogen

## Questions and Tables

- **Heinz-Uwe Lewe**, Policy Officer Ministry of Economic Affairs, Innovation, Digitalization and Energy of NRW
  - Table 1: How can we strengthen our European innovative capacity with regards to Hydrogen and how can we transfer this to added value?
  - Table 2: How should we promote European and global hydrogen markets?
  - Table 3: Which role should blue hydrogen play in a transformation towards a GHG-neutral economy?
- **Dr. Jörg Gigler**, Managing Director at Top consortium for Knowledge and Innovation New Gas
  - Table 4: Given the Dutch and German Hydrogen Innovation Programmes, what concrete priorities would you suggest for collaboration?
  - Table 5: We also see competition between countries in the innovation arena. How to deal with that in order to make collaboration work?
  - Table 6: What would your message regarding innovation and R&D be to both our governments?

# Workshop 1, Hydrogen

## Questions and Tables

- Table 7: Which type of hydrogen technologies are most fruitful for cross-border co-operation?
- Table 8: How can cross-border cooperation help introduction/distribution of (applied) research results?
- Table 9: What could NRW and NL government/agencies do to facilitate knowledge exchange, cooperation and/or accelerate application?
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# Programme Workshop 4, Hydrogen: Common project applications

## Introductions by:

- RH2INE: Hydrogen production – Infrastructure and Realisation for Shipping, Harbours, Busses, Bin Trucks **Klaas van Stalduine**, Deputy manager infrastructure, Province of Zuid-Holland
- H2Share: Development and Test of H2 Lorries with mobile Filling Station **Wolfgang Wolter**, Managing Director (Technology + Sales) at Wystrach GmbH
- ElementEins: Comprehensive coupling of the energy, transport and industry sectors with power-to-gas plants **Dr. Carsten Leder**, Division Manager Sales at Thyssengas GmbH
- Hydrogen research: Plans and priorities in The Netherlands. Directions for cross-border co-operation **Jaco Reijerkerk**, Board member Dutch H2 Platform

## Questions & Discussions...





# Workshop 4, Hydrogen

## Questions and Tables

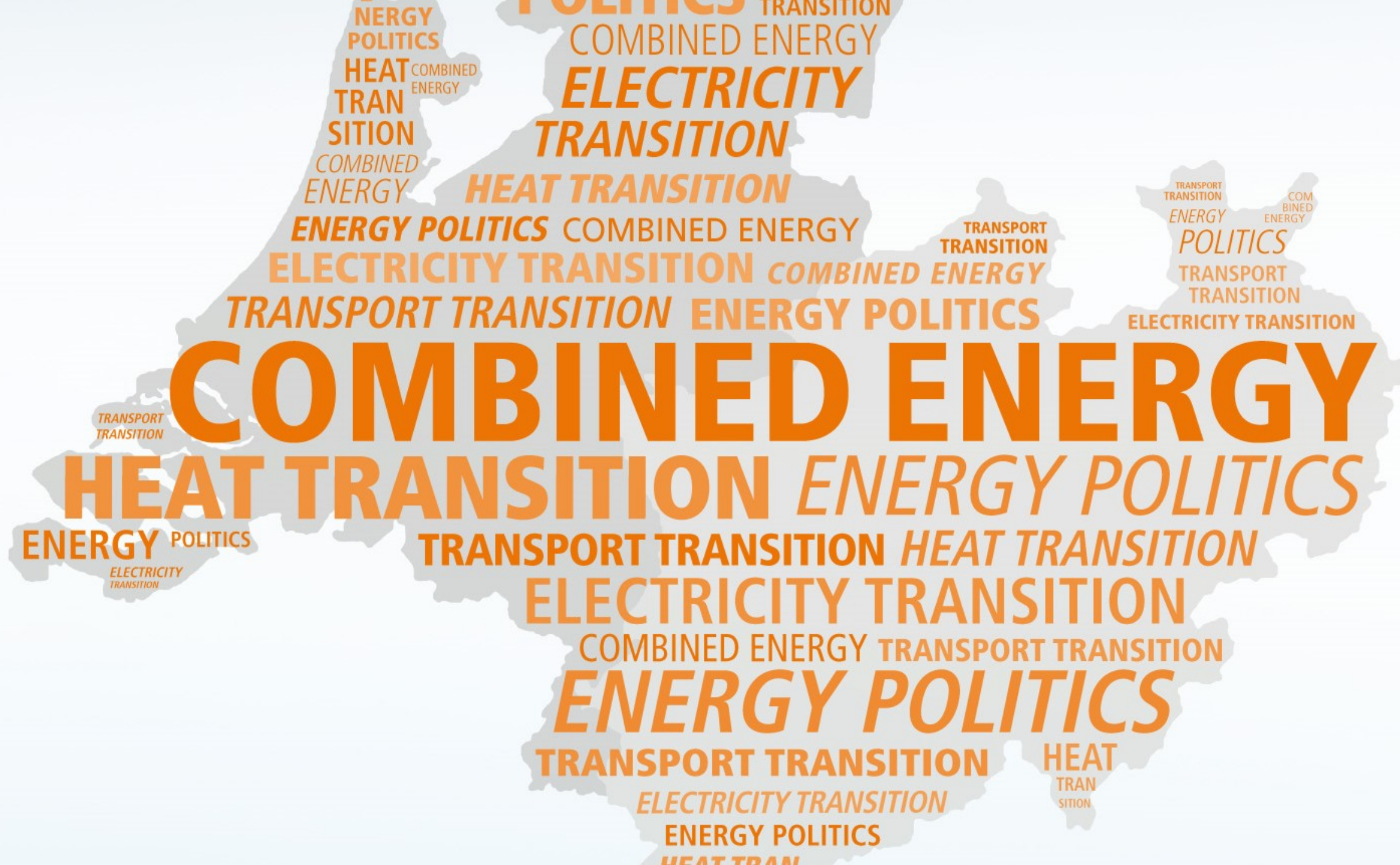
- **Klaas van Staalduine**, Deputy manager infrastructure, Province of Zuid-Holland
  - Table 1: Who could contribute or has suggestions for our project?
  - Table 2: What is required to implement a first cross border hydrogen project via pipeline?
- **Wolfgang Wolter**, Managing Director (Technology + Sales) at Wystrach GmbH
  - Table 3: Why and how should future hydrogen grids be regulated?
  - Table 4: Which role can hydrogen play in the Dutch and NRW heat sector?
- **Dr. Carsten Leder**, Division Manager Sales at Thyssengas GmbH
  - Table 5: In the Netherlands a national hydrogen safety innovation programme has commenced. Mainly due to the introduction of hydrogen in the public arena, via mobility, heating, energy system. How is the introduction of new technology in the early commercialisation phase best supported pro-actively?
  - Table 6: If we look at the subject Transport/Marine: Which are important cross border topics and how should we work on these together?
- **Jaco Reijerkerk**, Board member Dutch H2 Platform
  - Table 7: Germany has 82 public Hydrogen fueling stations in operation. Netherlands is planning and building approximately 20, having 4 existing stations. Do you see room for cross border heavy duty transport demonstrations?the 5 hydrogen application areas:
  - Table 8: In the Netherlands a national hydrogen safety innovation programme has commenced. Mainly due to the introduction of hydrogen in the public arena, via mobility, heating, energy system. How is the introduction of new technology in the early commercialisation phase best supported pro-actively?

# Hydrogen Workshop

## Closure

- Please give us some of your most important impressions, findings, actions...
- We will send you the results of the discussions
- You'll be invited to participate in follow-up activities

**Thank you !**



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**ELECTRICITY TRANSITION**

**ENERGY POLITICS**

**TRANSPORT TRANSITION**

**ELECTRICITY TRANSITION**

**ENERGY POLITICS**

**HEAT TRANSITION**

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