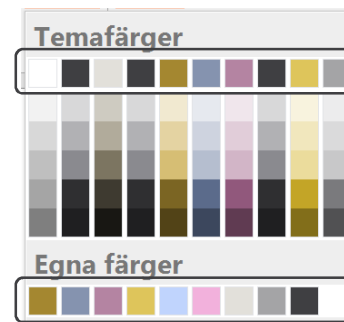
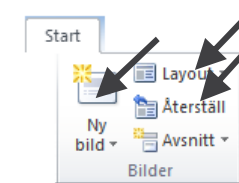


## How to use

- Delete this slide before you start.
- If you click on "New slide arrow" button you can select next slide with different layout (21 different).
- Click on "Reset" button to reset slide to default (font, bullets, colours, logotype, page number and layout).
- Click on "Layout" button to select different layout on slide.
- Page number and change Header & Footer in Ribbon Insert and button Header & Footer.
- Use the specifically developed Theme and custom colours.
- In layout with bullets:
  - New bullet with Enter.
  - Increase and decrease with Buttons Increase/Decrease list level or Tab-key.
  - First level is a bullet and the rest levels is a dash.
- Don't forget to make sure your default language in the presentation is right in ribbon Review and button Language, Set Proofing Language.
- Make sure you follow the templates text boundaries.



Text



# THE POWER-2-GAS CONCEPT CREATES SYNERGY BETWEEN THE ENERGY AND TRANSPORT SYSTEMS

Presentation 16 June 2016

At Interreg North Sea Conference, Billund - Denmark

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## About Sweco



- Transport and infrastructure
- Architecture and structural engineering
- Energy and industry
- Water and environment

Together with our customers, we plan and design the cities and societies of the future

- #1 engineering consultancy on European market
- Strong local presence
- 14,500 employees
- Net sales EUR 1,7 billion



## What is Power-to-Gas and why Energy-for-Transport ?

- P2G is one interlinked energy exchange system: Transforms Electricity to Hydrogen to Methane and vice versa
- E4T: Europe can secure its own supply of fuel
- It can balance the energy grid for high intermittent production of Renewable Energy from sustainable sources such as wind, electricity and biomass.
- It integrates the controversy between battery-electric-vehicles BEV, Hydrogen fuel cell electric vehicles FCEV and the biogas/NGV vehicles
- Can produce much more biogas/methane with use of RES, hydrogen and excess CO<sub>2</sub>
- Realistic road to fossil fuel free future transport-energy system

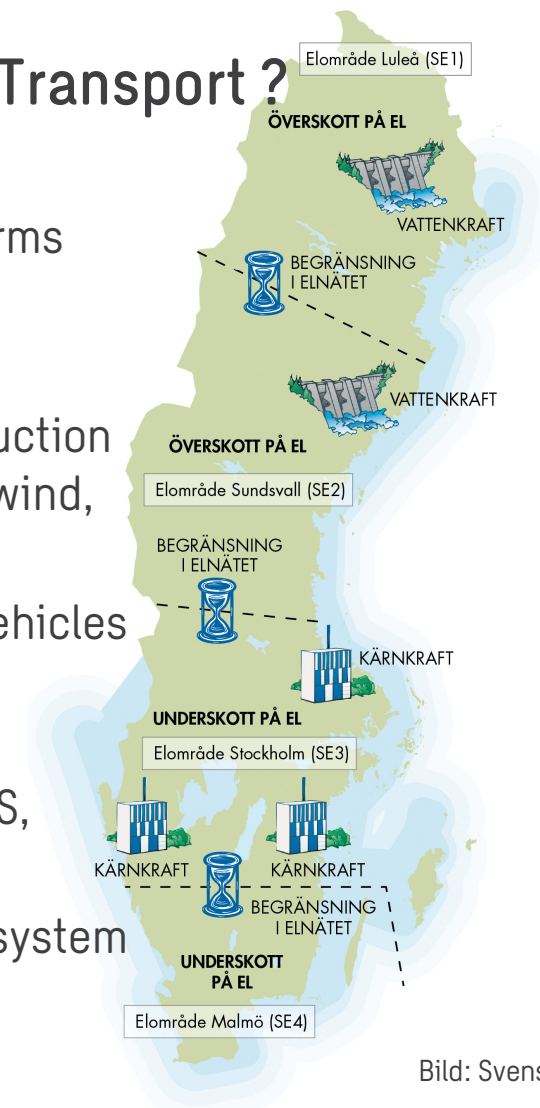
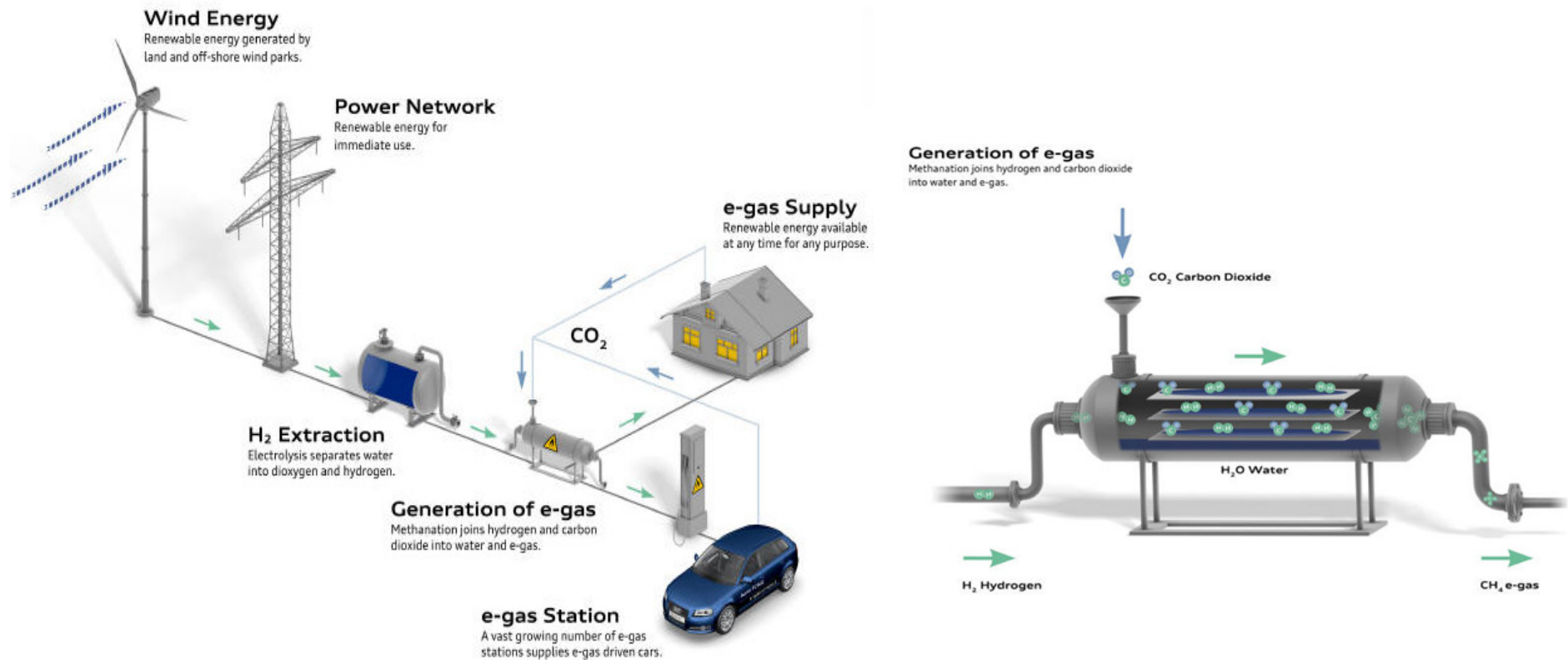


Bild: Svensk Energi

## Example Audi is investing in concept e-Tron



## How far has your organisation come with it?

- Who has heard about it?
- Who made plans or is planning for it?
- Who is planning to invest?
- Who has an existing power to gas plant?

## Power2Gas = Energy4Transport application concept

- Sweco has initiated a new project that will apply for EU co-financing
- Partners from all countries bordering the North Sea can join – contact Geert
- Power2Gas = Energy4Transport – an integrated approach to Europe's energy and transport challenges
- Power-to-gas can produce clean fuels from renewable energy. The project will consider electricity, methane and hydrogen as one interactive system that can balance peaks of renewable electricity supply in the electricity-grid.
- Objectives of the project:
  - Communicate the benefits of Power2Gas to decision makers and media
  - Map potential for Power2Gas in different countries and quantify its impacts
  - Feasibility studies on first demonstration pilots in different countries
  - Define financing package for each pilot
- Benefit for participants: Access to a broad and strong network that jointly can become forerunners in P2G=E4T solutions in Europe.

## Questions about the new application?



## Feedback on the P2G=E4T workshop

- Was it interesting?
- Did you learn new things?
- Will you consider it in your work?
- Do you want to join our application? – send email to [Geert.Schaap@Sweco.se](mailto:Geert.Schaap@Sweco.se)
- Thank you!

