

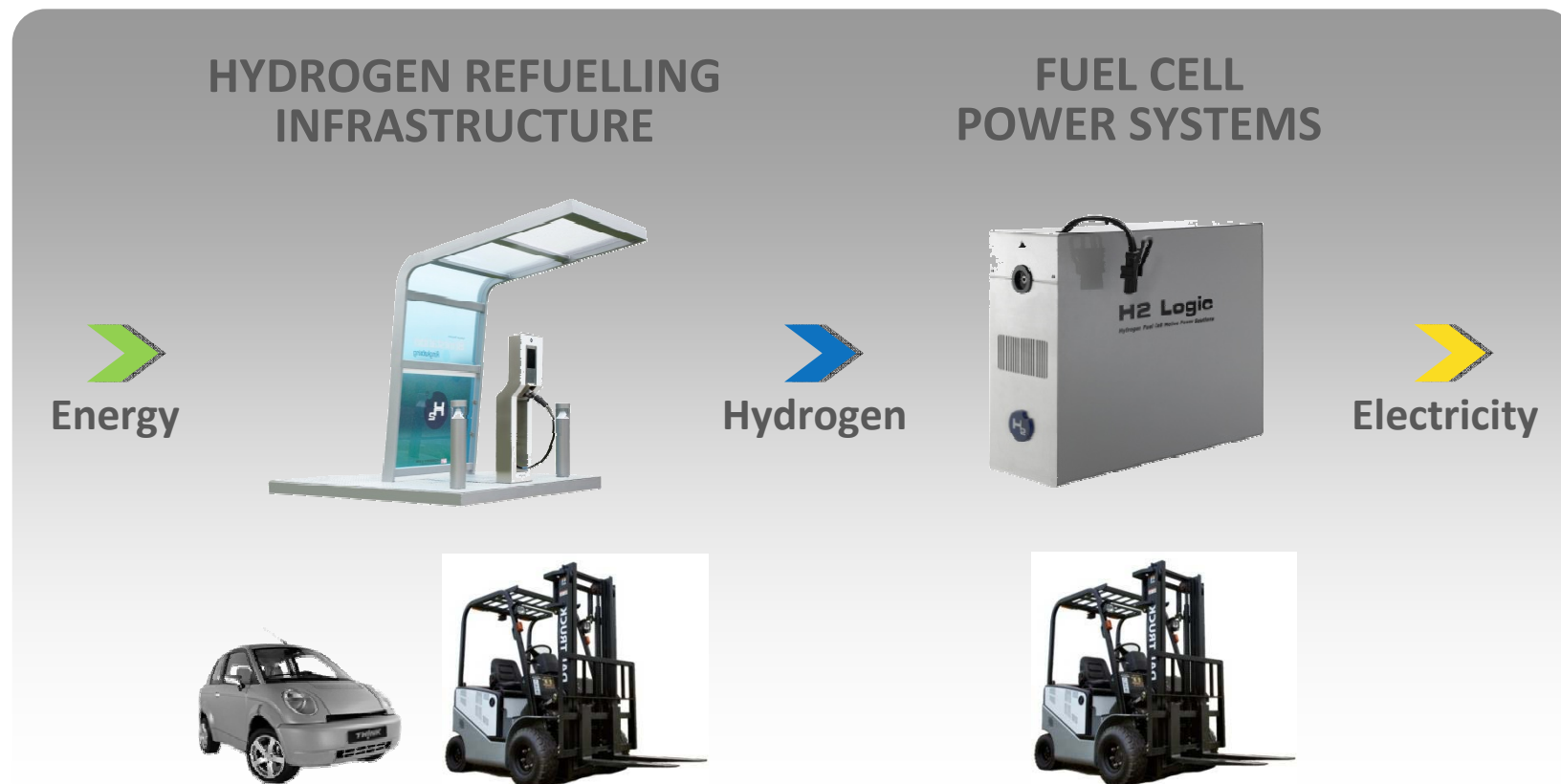
Zero emission fuel cell forklifts

H2 Logic A/S presentation



About H2 Logic A/S

- Hydrogen and fuel cell technology for zero emission electric transport
- Development & manufacturing company since 2003



Material Handling – Niche market?

*The **European material handling industry** alone has an annual turnover of around **€ 45 billion** and accounts for more than **half of the world's total production**. In total **1,000 companies** with about **160,000 employees** are active within the material handling sector in Europe. (Source: European Federation of Materials Handling)*

Fuel cell electric forklifts

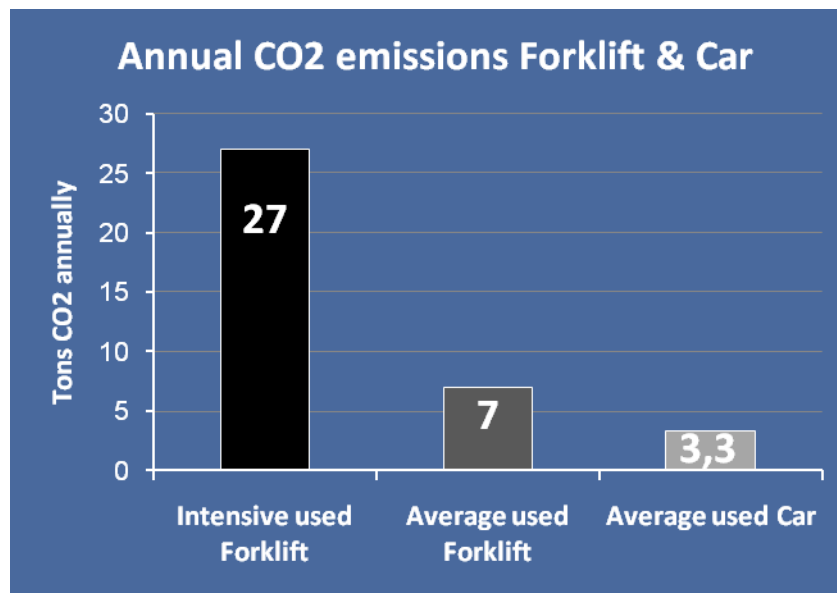
- Fast refuelling & consistent power like diesel/LPG forklifts
- Zero emission & high fuel efficiency like battery electric forklifts
- Fuel cost competitive with LPG
- Hardware cost competitive with batteries



Significant emission reduction potential

- 1 average used forklift emits CO2 annually for 2 cars
- 1 intensive used forklift emits CO2 annually for 8 cars
- Using hydrogen in fuel cell powered forklifts can eliminated CO2 emissions
- Further local/indoor particle emission is eliminated & noise level reduced

Numbers based on comparison with diesel/LPG powered forklifts



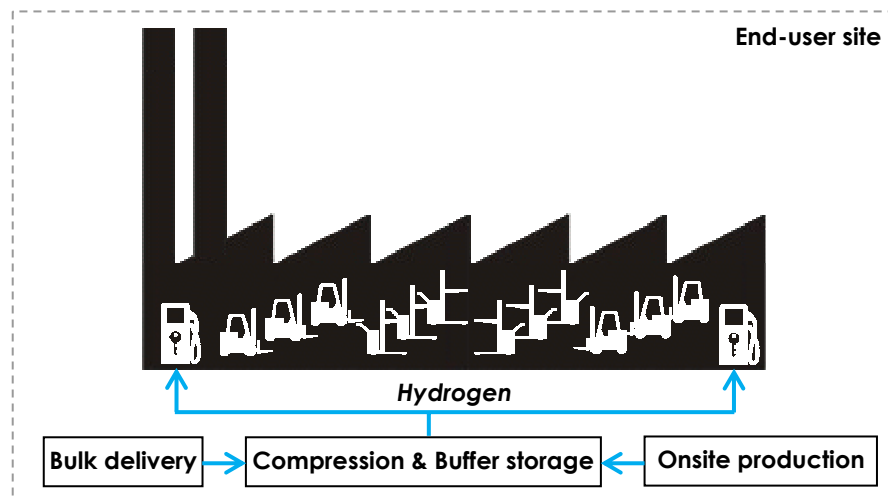
Fuel cell systems for forklifts

- Targeted R&D and testing towards a range of vehicles
- Collaboration with forklift OEMs and early adopter end-users



Refuelling infrastructure for forklifts

- Flexible station set-up depending on site requirements
- Onsite or supplied hydrogen
- Outside placed or indoor wall mounted dispensers
- Gas provider company or end-user own/operate refuelling station



Technology is moving towards market

- Massive research & development conducted on fuel cells for forklifts
- Extensive testing & demonstration ongoing at end-users
- Ready to move for early & supported market deployment
- Support mechanisms on 30% needed – similar to the US

Operation of fuel cell forklift & hydrogen refuelling at Danish end-user:



Thank you for your attention

Questions and input

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H2 Logic