Linde Hydrogen Fueling Overview

Berkeley, CA 20 May 2016:







Linde developments and projects along key dimensions







20 Stations Program

Roadmap to Commercialization



Hydrogen Refueling Stations (HRS)



H2 Mobility – Developing a hydrogen refueling infrastructure in Germany



Our goals

- Synchronize HRS roll-out with FCEV ramp-up
- Create a common structure to de-risk **HRS** deployment
- 100 hydrogen refueling stations in the next four years
- 200 to 400 Hydrogen refueling stations by 2023, distributed all over the country
- **250,000 FCEVs** on the roads in 2023
- **350 MEUR** planned investments

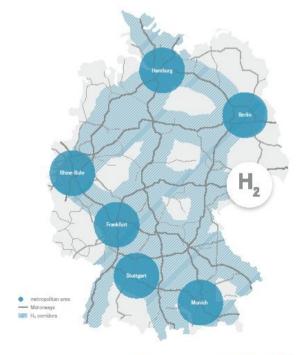
H, Mobility Initiative

Action plan for the construction of a hydrogen refuelling network in Germany by 2023

will Germany's public hydrogen refuelling network cover by 2023.

the motorways around the metropoli-

will be available in each metropolitan

















West Sacramento Station

1st Fully Commercial Station in the US







- Credit Card Ready (No user Agreements)
- DMS Approved for sale by KG
- SAE J2601 Compliant
- OEM approval Letters

Beyond infrastructure





















BeeZero: the first hydrogen-fueled Car Sharing program in the world – as of summer 2016 in Munich!



Zone-based Car Sharing with 50 FCEVs in Munich

Target group are inhabitants, employees and visitors of the Munich City center

Spontaneous booking with short
notice reservation for
drives of up to 400 km

Use for day and weekend trips or for shopping outside the city

Key Drivers To Move Forward





- Industry: Faster, Smaller, Less Expensive
- Government:
 - Provide stability in planning
 - Policies to support demand
 - Remove regulatory barriers: permitting, code issues
 - Recognize there is a trade-off...we can't (initially) have our cake and eat it to!