

Progress in FCH deployment in Europe & the world Presented by: Dr Henri Winand

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Automotive Fuel Cell





Performance



Range



Refuelling







World leading power density for series production



Cost-effective, simple, powerful

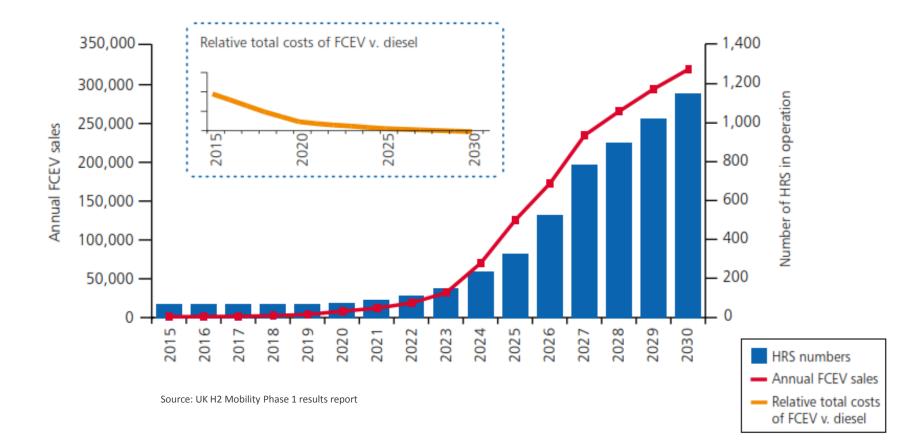


SMILE represents the next stage in high volume production of fuel cell systems with associated reduction of manufacturing and assembly costs as well as improved cycle times and enhanced product quality.

SUZUKI

1 year anniversary





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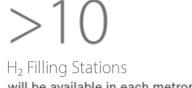


Stations will Germany's public hydrogen refuelling network cover by 2023.

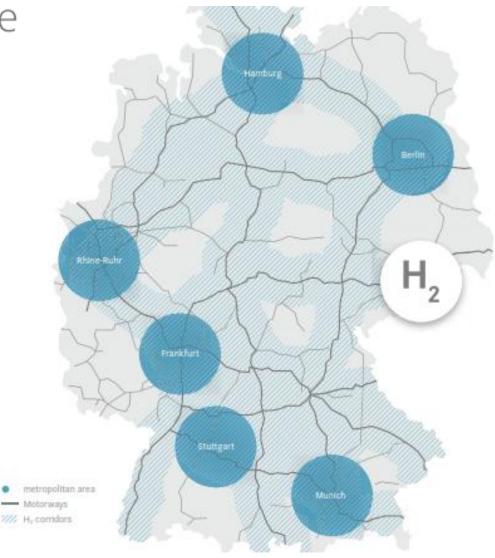


Kilometers

lie between the H_2 filling stations on the motorways around the metropolitan areas by 2023



will be available in each metropolitan area from 2023





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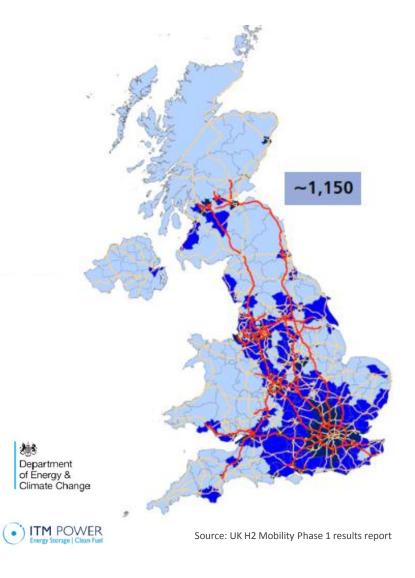
New Energy World

M

MORRISONS

fuel cells & hydrogen for sustain

Full Population Coverage by 2030



SSE TOYOTA

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R LIQUIDE

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Department

for Transport

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Johnson Matthey

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Department

for Business Innovation & Skills

> Intelligent Energy

DAIMLER

HYUNDAI

ISSA



Consumer Electronics



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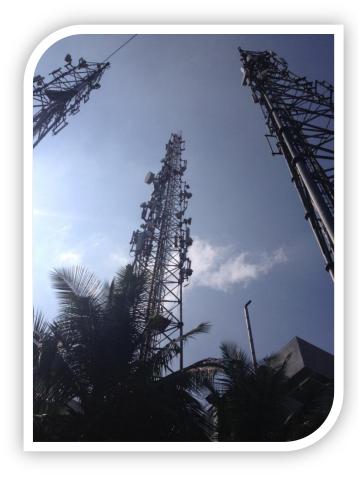
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Distributed Power





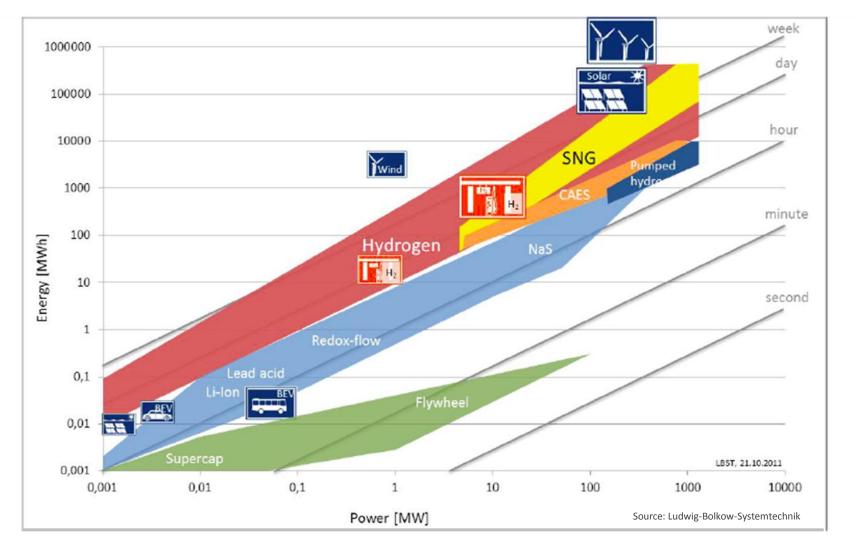
Over 400K Telecom Towers in India 1 Million Sites by 2025 70% Sites >8hrs Run Time 2 Billion Litres of Diesel per Year 10 Million Tonnes of CO₂ per Year

Intelligent Energy poised to provide an alternative



Bulk Energy Storage

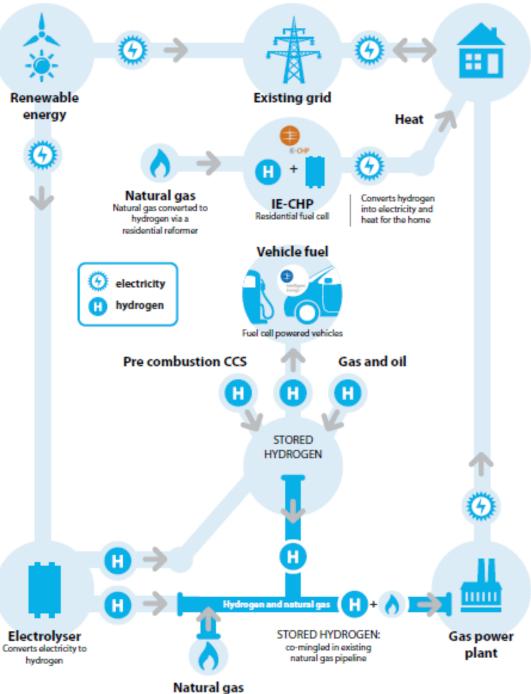
Energy Storage Methods



LegendBEV = Battery Electric VehicleCAES = Compressed Air Energy StorageH2 = HydrogenNaS = Sodium Sulphur batterySNG = Synthesised Natural Gas



Renewable energy solutions increase the requirement for grid scale energy storage







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