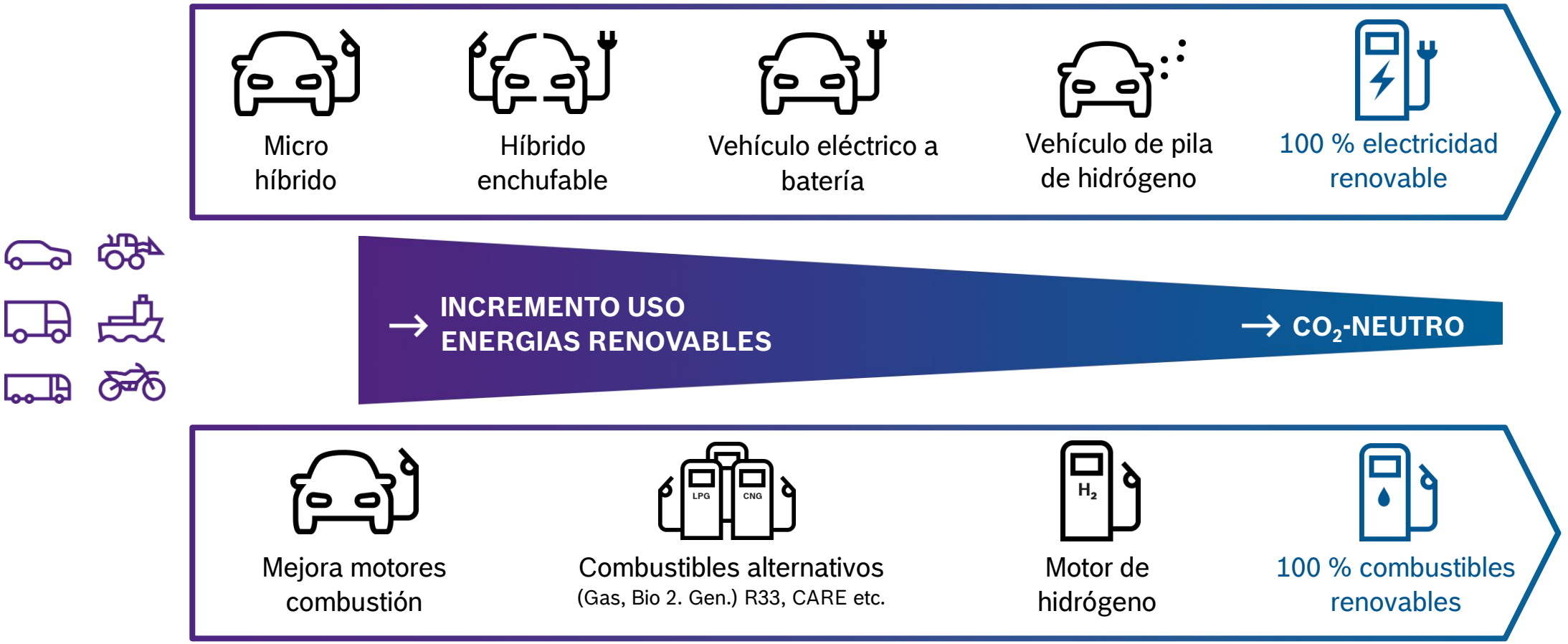
El hidrógeno en la movilidad

Ricardo Olalla
Robert Bosch España S.L.U.
04.10.2022

El hidrógeno en la movilidad

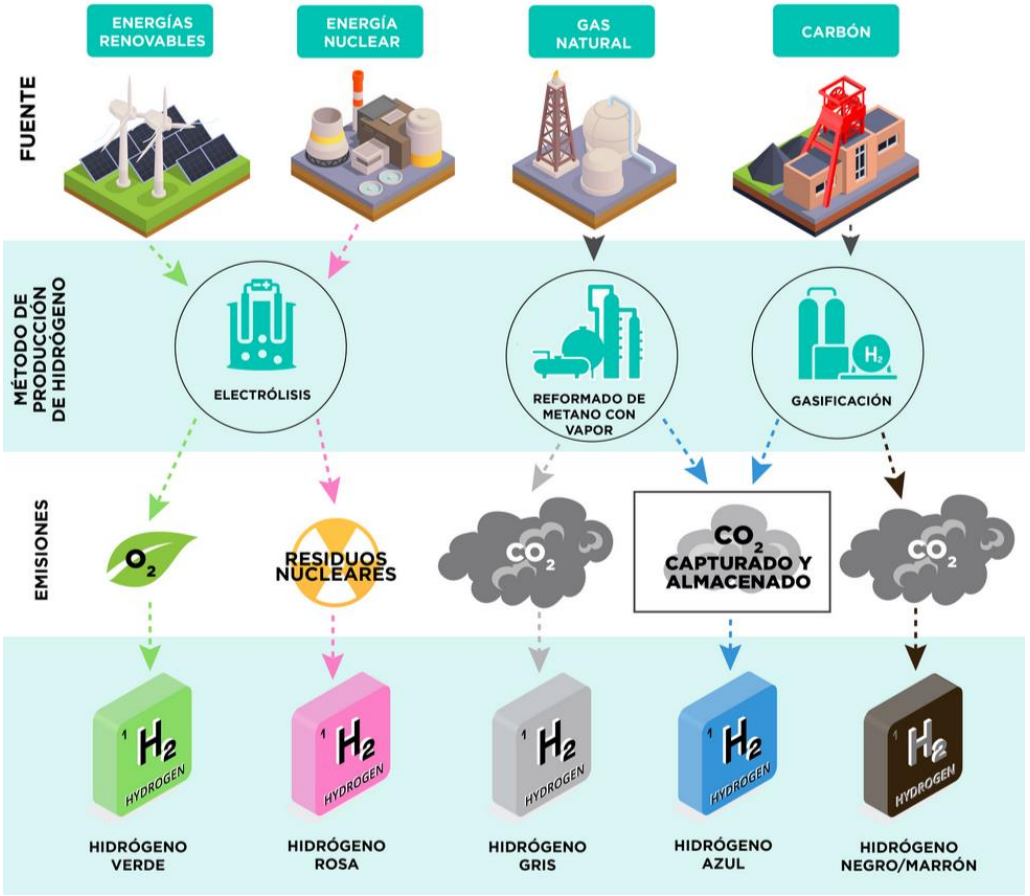
Un elemento más en el camino hacia la descarbonización



BOSCH

El hidrógeno en la movilidad

Hidrógeno: Fuentes, tipos y ventajas



Ecológico

Sostenible

Almacenable

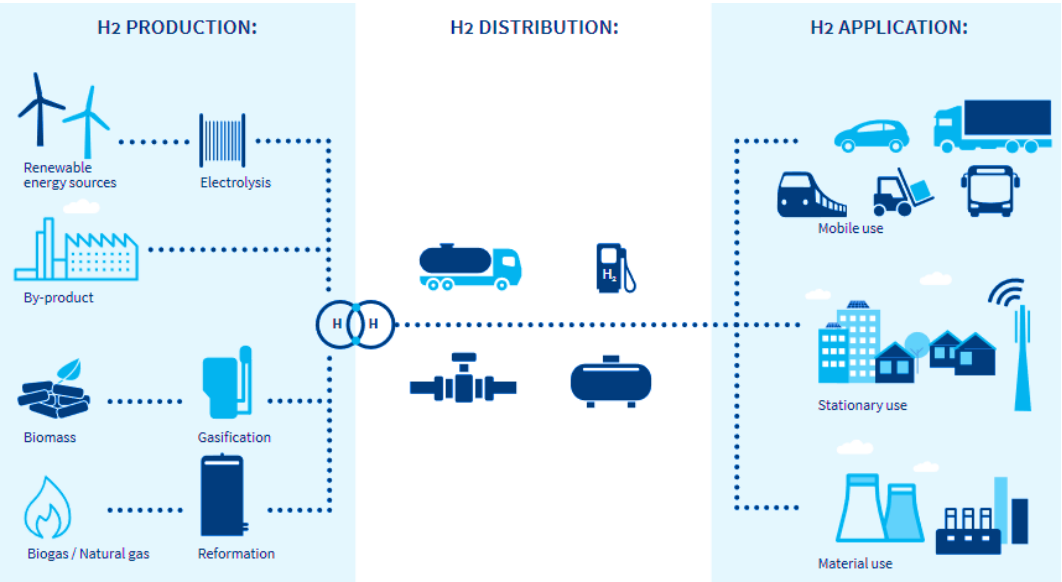
Versátil

Elemento más abundante

Coste

Gasto energético

Seguridad



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El hidrógeno en la movilidad
H2: Nuestra oferta

Producción

Almacenaje y transporte

Aplicaciones

*PEMEL = Proton exchange membrane electrolysis;
**SOFC = Solid Oxide Fuel Cell;
***PEMFC = Polymer electrolyte fuel cell

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El hidrógeno en la movilidad

Tecnologías reconocidas como 0 emisiones

EUROPEAN COMMISSION

Brussels, 17.5.2018
COM(2018) 284 final

ANNEXES 1 to 2

The three defined Zero Emission propulsion technologies

Proposal for a regulation of the ... an Parliament and of the Council
setting CO2 emission performan... dards for new heavy-duty vehicles
{SEC(2018) 233 final} - {SWD(... 85 final} - {SWD(2018) 186 final}

Electric Vehicles

Fuel Cell Vehicles

H_2 ICE Vehicles

Source: KEYOU GmbH

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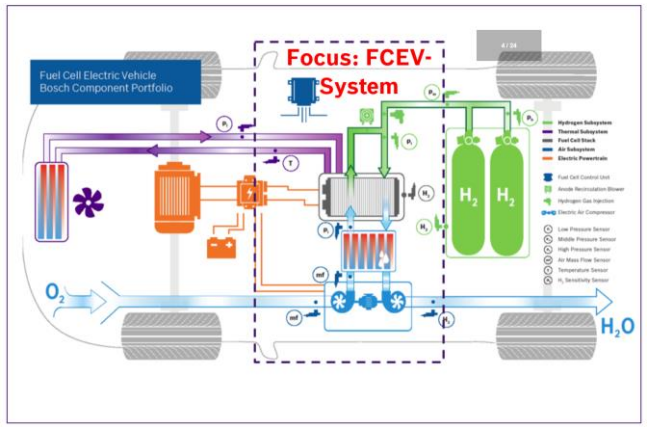
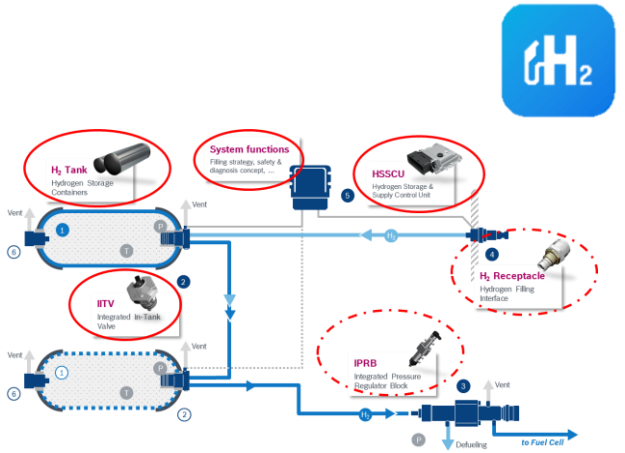
El hidrógeno en la movilidad
Tecnologías

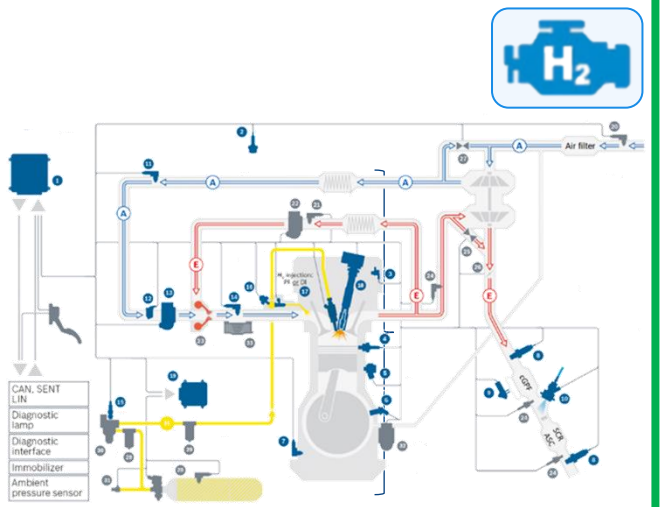
Pila de hidrógeno



Suministro H_2



Motor de combustión interna



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Muchas gracias

Ricardo Olalla
04.10.2022