

# TRANSPORT OCH DRIVMEDEL

MODERATOR:

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# Hydrogen within a sustainable society

**FOSSIL FREE ENERGY**

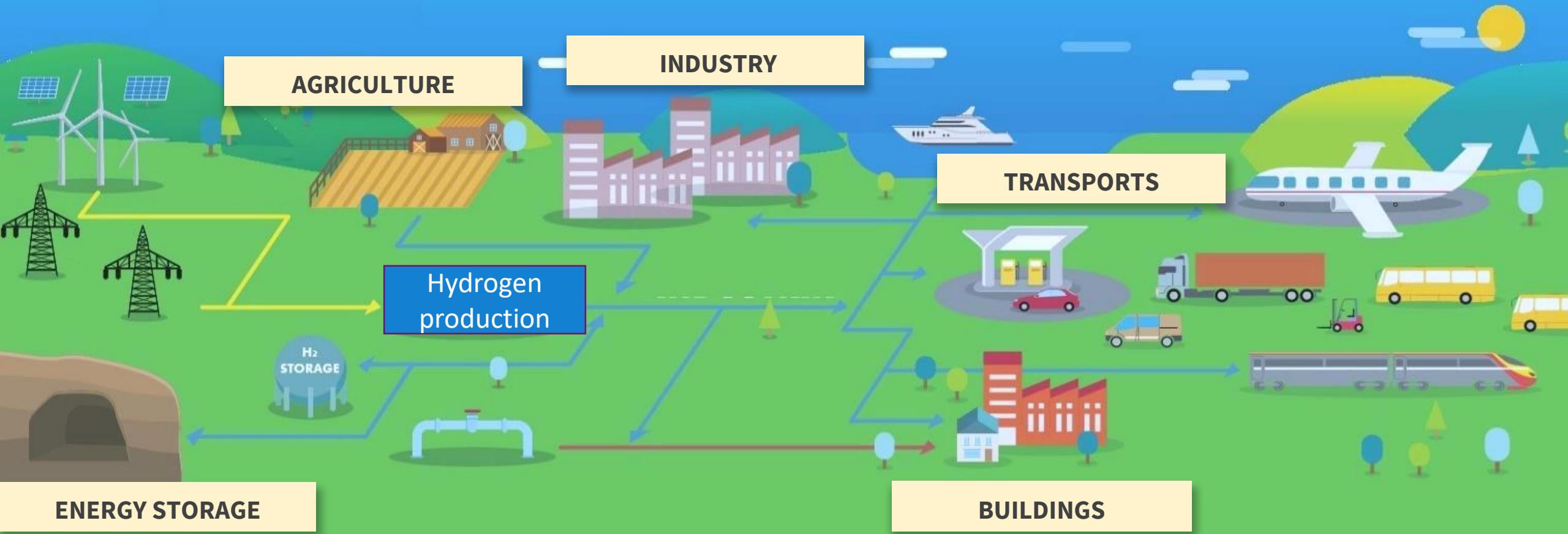


Illustration: FCH JU

Källa: Vätgas Sverige // Illustration: FCH JU

# VÄTGAS – EN GLOBAL AFFÄR

## Hydrogen Council (+150 globala företag)



### Fakta: 2050

- 400 miljoner personbilar (25%)
- 5 miljoner lastbilar (30%)
- 15 miljoner bussar (25%)
- 20% av alla dieseltåg
- Ca 12-20% av all världens energi i vätgas

## 230330, RENEWABLE ENERGY DIRECTIVE (RED)

### Transport

- 14,5% reduction of GHG or 29% of renewable energy of the sector's total energy consumption
- Whereof 5.5% must be so-called "advanced biofuels" and min. 1% from so-called RFNBO (Renewable fuels of non-biological origin)

# 230328, AFIR – ALTERNATIVE FUELS INFRASTRUCTURE REGULATION

- 200 km + urban nodes (> 100 000 citizens)
- 1 ton/day/station
- 2030 (plan in 2027)



	HRS in Urban nodes TEN-T	HRS on TEN-T Core Network every 200km	Total	Number of petrol stations
<b>Austria</b>	9	5	14	2,733
<b>Belgium</b>	11	4	15	3,085
<b>Bulgaria</b>	7	8	15	4,600
<b>Croatia</b>	5	6	11	N/A
<b>Cyprus</b>	3	1	4	315
<b>Czechia</b>	7	5	12	4,008
<b>Denmark</b>	6	4	10	2,051
<b>Estonia</b>	2	2	4	495
<b>Finland</b>	7	5	12	1,869
<b>France</b>	42	26	68	11,160
<b>Germany</b>	77	32	109	14,459
<b>Greece</b>	17	9	26	6,100
<b>Hungary</b>	9	5	14	2,014
<b>Ireland</b>	3	2	5	1,850
<b>Italy</b>	49	21	70	21,750
<b>Latvia</b>	1	4	5	612
<b>Lithuania</b>	5	3	8	718
<b>Luxembourg</b>	1	1	2	238
<b>Malta</b>	1	1	2	69
<b>Netherlands</b>	24	3	27	4,142
<b>Poland</b>	30	19	49	7,739
<b>Portugal</b>	13	5	18	3,418
<b>Romania</b>	22	12	34	1,615
<b>Slovakia</b>	4	4	8	973
<b>Slovenia</b>	2	2	4	N/A
<b>Spain</b>	49	29	78	11,650
<b>Sweden</b>	18	15	33	2,701
<b>TOTAL</b>	<b>424</b>	<b>233</b>	<b>657</b>	<b>110 364</b>