



Hydrogen  
Europe

**Why and how communicate the benefits of hydrogen?**

**- 12<sup>th</sup> December 2023, Tallinn**

# Clean Hydrogen Joint Undertaking

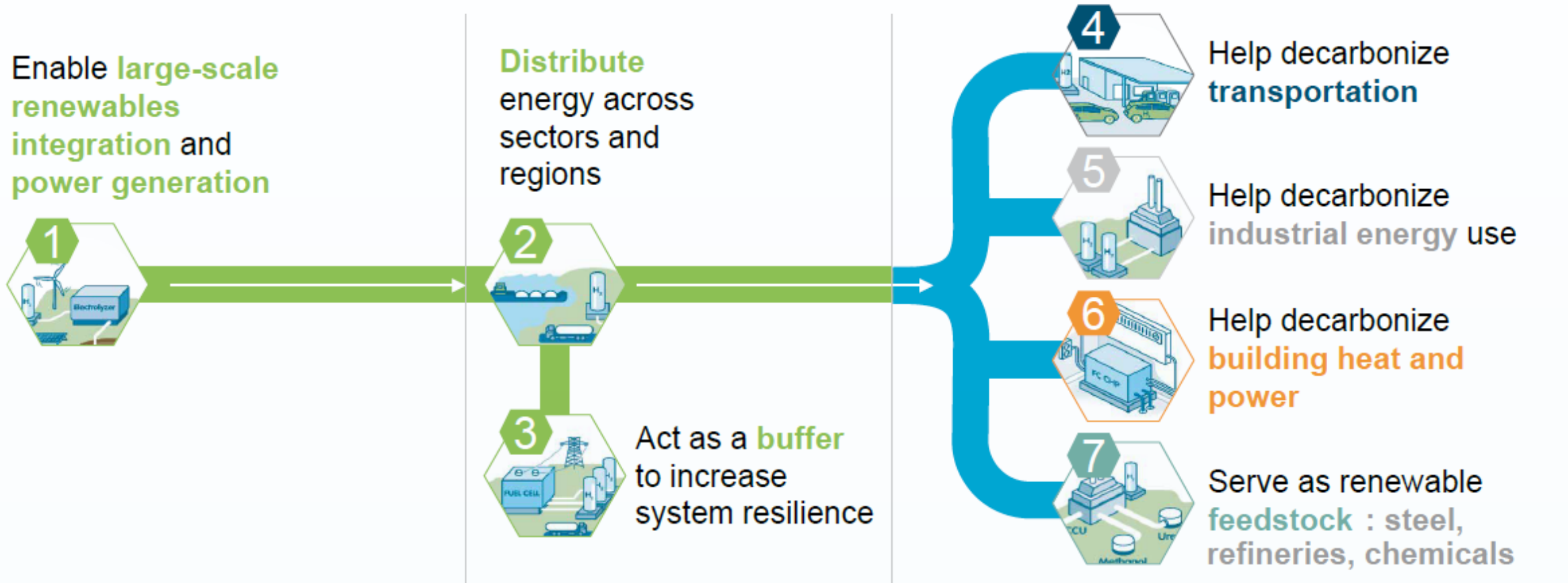


**A portfolio of clean, efficient and competitive solutions based on fuel cells and hydrogen technologies in energy and transport**



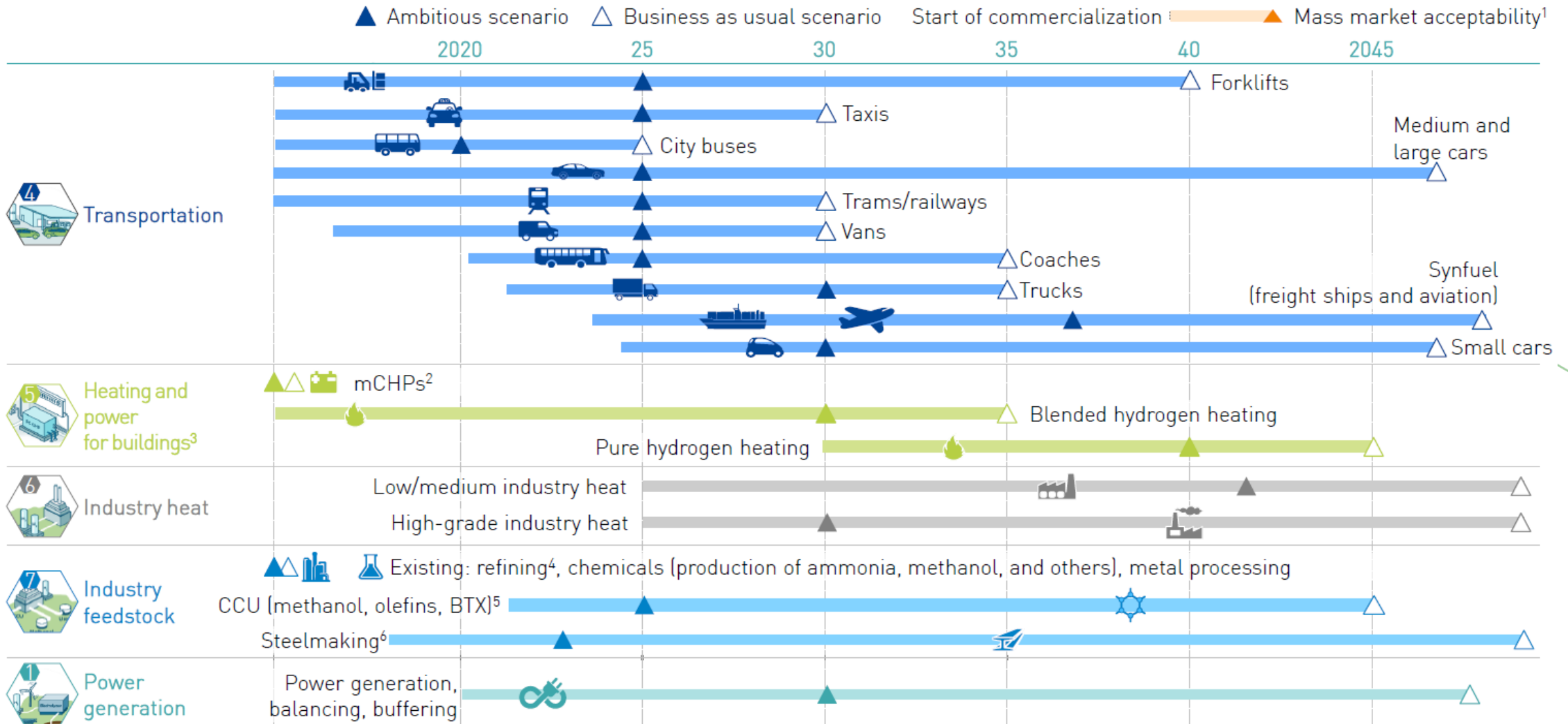
# 7 roles of hydrogen

Enable the renewable energy system → Decarbonize end uses



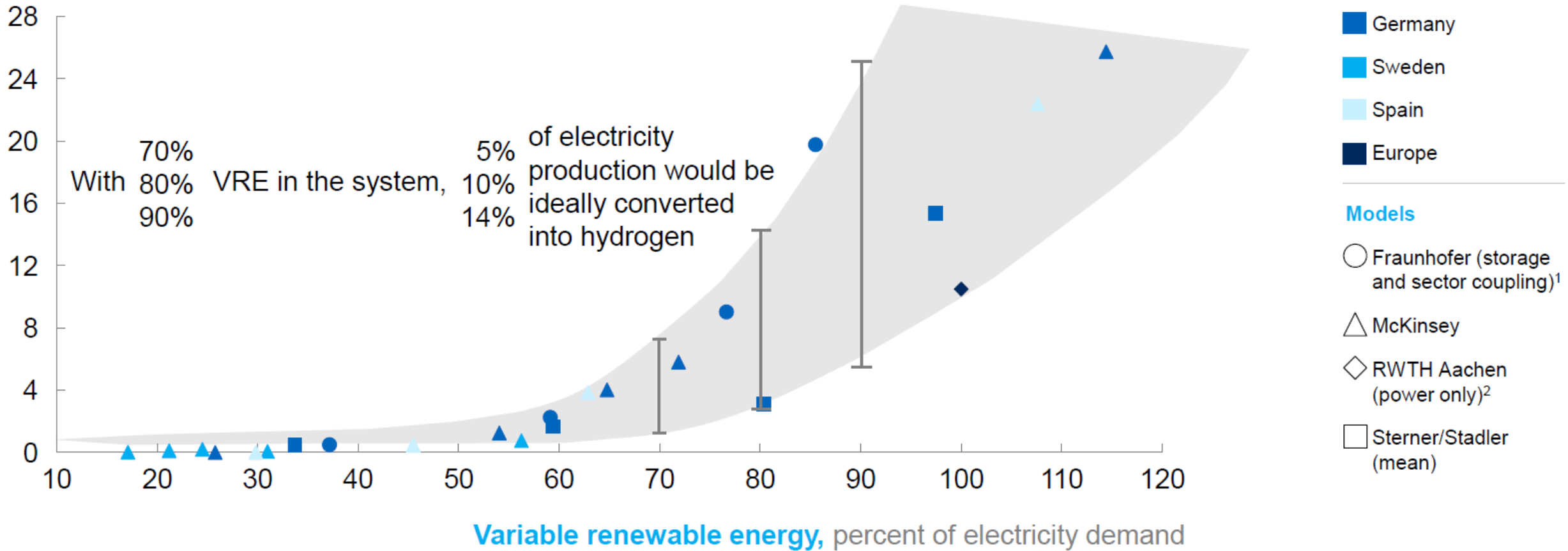
# Hydrogen technologies

## HYDROGEN TECHNOLOGY EXISTS AND IS READY TO BE DEPLOYED



# In high electrification scenario, large scale RES curtailment is UNAVOIDABLE without hydrogen

Hydrogen demand, percent of electricity production



<sup>1</sup> Least-cost modeling to achieve 2-degree scenario in Germany in 2050 in hour-by-hour simulation of power generation and demand; assumptions: no regional distribution issues (would increase hydrogen pathway), no change in energy imports and exports

<sup>2</sup> Simulation of storage requirements for 100% European RES; only power sector storage considered (lower bound for hydrogen pathway)

## Project partnership: 16 project partner and 24 associated organisations

Project partner



¹) Further project partner in Latvia: SIA Gulfstream Oil, Latvia University of Life Sciences and Technologies

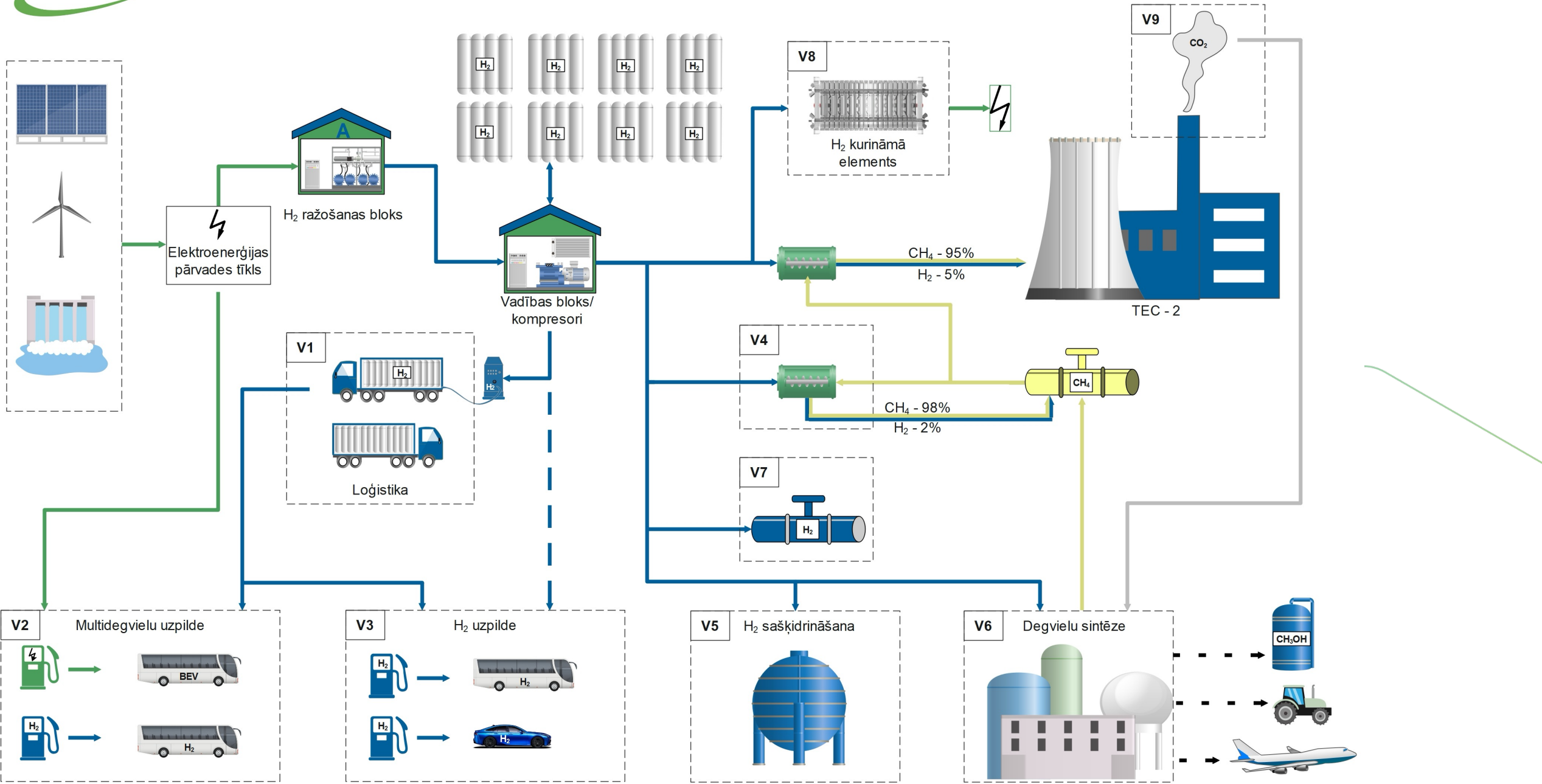
Associated organisations

No.	Organisation (English)	Organisation (Original)	Country
AO 1	Everfuel A/S	Everfuel A/S	DK
AO 2	Wielkopolska Hydrogen Platform	Wielkopolska Platforma Wodorowa	PL
AO 3	Aviasabiedriba Liepaja Ltd. (Liepaja Airport)	SIA "Aviasabiedriba "Liepāja"	LV
AO 4	Swedish Transport Administration	Trafikverket	SE
AO 5	Airport Regions Council	Airport Regions Council	BE
AO 6	VITERA OY	VITERA OY	FI
AO 7	Ministry of Transport and Communication	Liikenne- ja viestintäministeriö	FI
AO 8	Ministry of Transport Republic of Latvia	Satiksmes ministrija	LV
AO 9	Civil Aviation Agency	Valsts aģentūra "Civīlās aviācijas aģentūra"	LV
AO 10	Estonian Aviation Academy	Eesti Lennuakadeemia	EE
AO 11	Estonian Association of Hydrogen Technologies	Eesti Vesinikutehnoloogiaste Ühing	EE
AO 12	Non-profit association Estonian Aviation Cluster	MTÜ Eesti Lennundusklaster	EE
AO 13	Estonian Transport Administration	Transpordiamet	EE
AO 14	University of Tartu	Tartu Ülikool	EE
AO 15	Ministry of Economic Affairs, Transport, Employment, Technology and Tourism Schleswig-Holstein	Ministerium für Wirtschaft, Verkehr, Arbeit, Technologie und Tourismus des Landes Schleswig-Holstein	DE
AO 16	Ministry of Environmental Protection and Regional Development	Vides Aizsardzības un Reģionālās Attīstības Ministrija	LV
AO 17	Hamburg Aviation	Hamburg Aviation e.V.	DE
AO 18	ZeroAvia Inc.	ZeroAvia Inc.	Other
AO 19	Estonian Air Navigation Services	Lennuliiklusteeninduse Aktsiaselts	EE
AO 20	Diamond Sky	Diamond Sky OÜ	EE
AO 21	ZAL Center of Applied Aeronautical Research	ZAL Zentrum für Angewandte Luftfahrtforschung GmbH	DE
AO 22	Ministry of Economy and Innovation	Behörde für Wirtschaft und Innovation Hamburg	DE
AO 23	Air Baltic Corporation AS	Air Baltic Corporation AS	LV
AO 24	Regional Jet OÜ	Regional Jet OÜ	EE

**JIVE 2 CEE Bus Roadshow** aims to organize FCE bus test drives on public transport routes across cities interested in the technology but cannot access the infrastructures due to their location. The objective is to have the relevant local actors test a demonstration bus to build regional capacity to deploy fuel cell bus technology to **expand the sector in the short/medium term**.

- 1<sup>st</sup> Roadshow - mid-November till end of January Countries – Slovenia, Croatia, Czech Republic, Slovakia, Hungary
- 2<sup>nd</sup> Roadshow – September / October – Poland, Lithuania, Latvia, Estonia









# Thank You



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