

OMV GROUP



# Upscaling of green hydrogen at OMV

## UpHyll project

OMV Graduate Development Program

06<sup>th</sup> February 2025, Martin Hammerschmid, Karl Mustafa



# Creating a sustainable Fuels & Feedstock champion

## Strategic priorities

- Become a **leading innovative producer** of renewable fuels and chemical feedstock with a **strong anchor in Europe**
- Deepen **integration with Chemicals** while leveraging low-carbon solutions from Energy
- Be the **first mobility choice for retail customers**; develop a **leading EV network** and grow convenience business
- **Maximize the integrated margin** of traditional fuels throughout the value chain
- Adapt to changing market demand and **reduce fossil throughput in refining**



## 2030 strategic targets

**~1.5 mn t**

Renewable fuels and chemical feedstock production capacity

**~25%**

Strengthen chemical integration (2019: 17%)

**~2.5 mn t**

Lower crude oil processing vs. 2019

**~5,000**

EV fast and ultra-fast charging points



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Green  
Hydrogen



# The role of Green Hydrogen

## Innovative e-feedstock in refinery as well as for e-fuel solutions



1



2



3

Becoming a leader in sustainable fuels and feedstocks in Europe

Focusing on new technologies & reliable feedstock accessibility, as well as hydrogen sourcing options

~ 150 - 200 kt p.a.

of sustainable e-feedstock and synthetic products (e.g. e-SAF)

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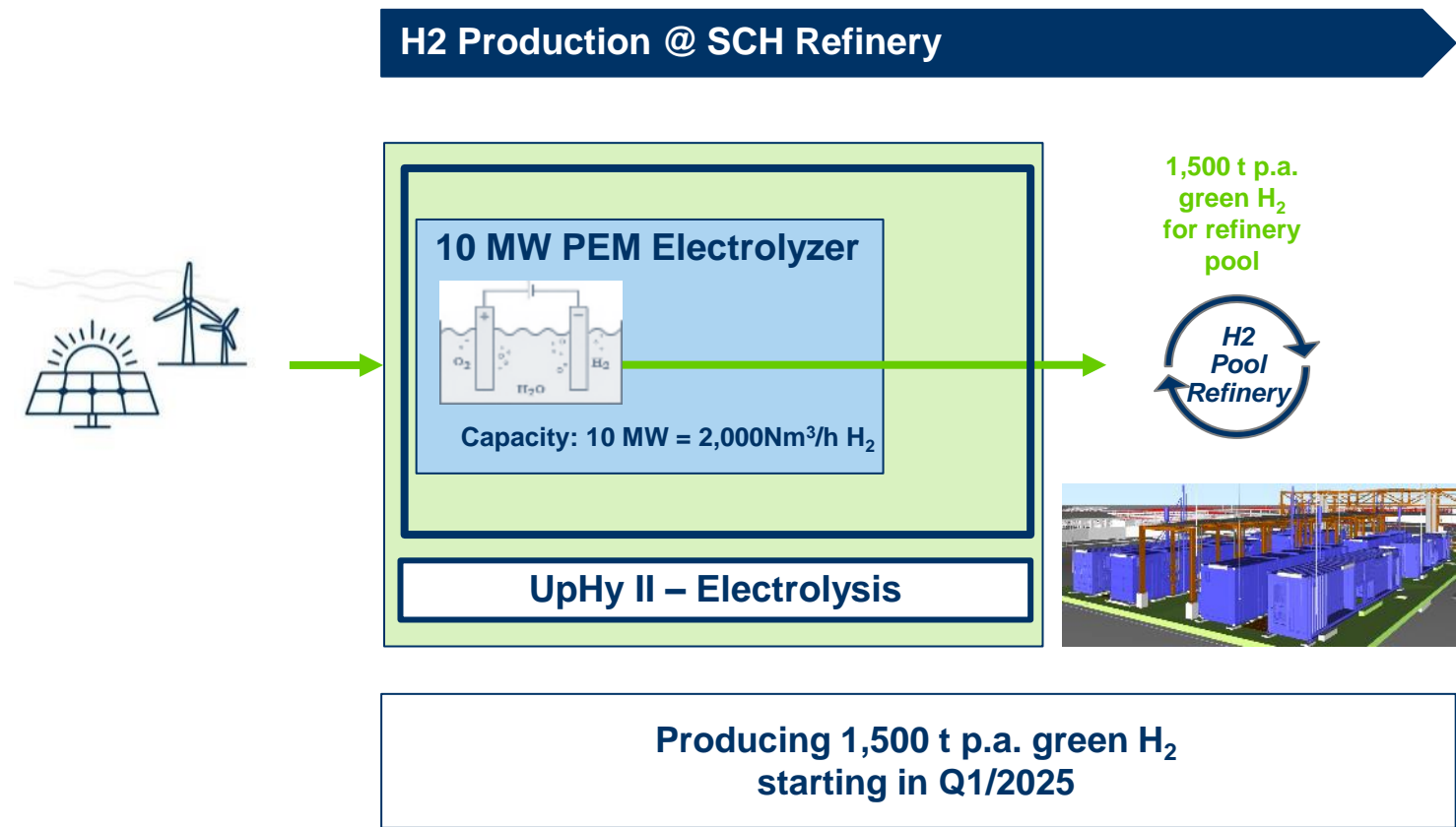


# UpHy II

Deep - Dive



# Setup of the project UpHy II: Upscaling of green hydrogen

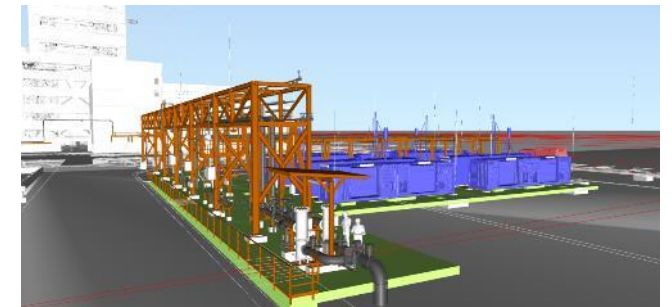
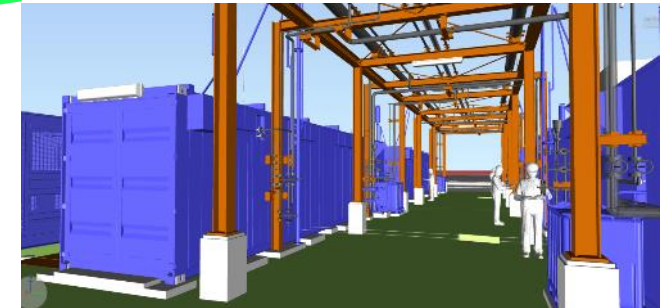
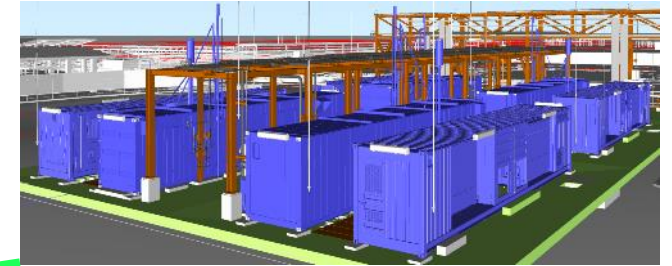


# UpHy II

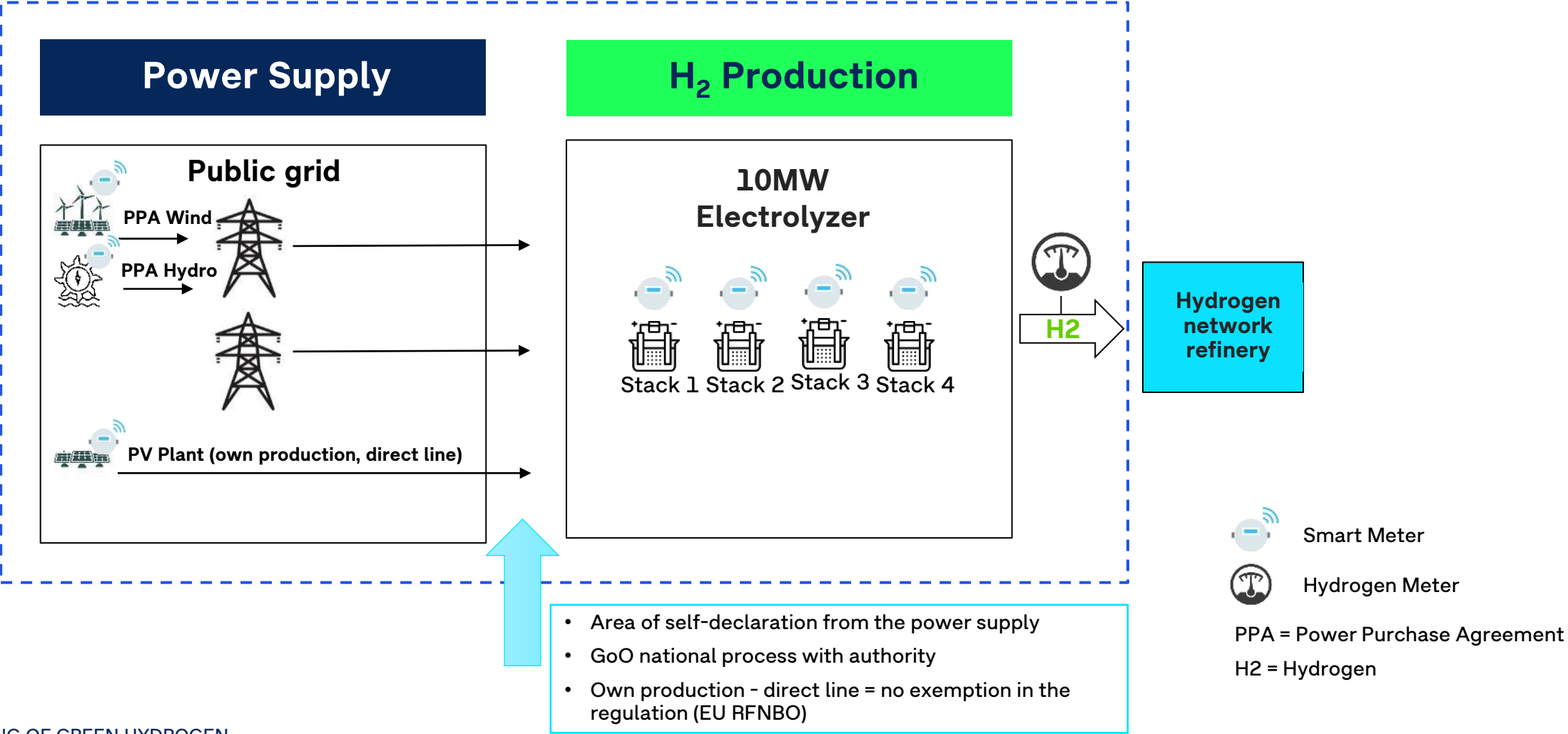
## 10 MW PEM electrolysis plant within refinery Schwechat



Refinery Schwechat



RFNBO Certification - TÜV Süd (ISCC)





# Power Purchase Agreement (PPA) signed with W.E.B for a 5,6 MW windmill

## OMV und W.E.B unterzeichnen den ersten Wind- Stromabnahmevertrag

04.2022 - [Zurück zur Übersicht](#)



LANGFRISTIGE KOOPERATION / FERTIGSTELLUNG IM NÄCHSTEN JAHR GEPLANT

OMV wird Windstrom nutzen, um grünen Wasserstoff herzustellen

Der erste Wind-Stromabnahmevertrag (PPA - Power Purchase Agreement) zwischen der OMV und dem Erneuerbare-Energie-Unternehmen W.E.B bedeutet konkret: Die WEB Windenergie AG wird auf Basis eines langfristigen Liefervertrages eine Windkraftanlage im Weinviertel errichten und betreiben; diesen Strom wird die OMV nutzen, um damit mittels eines Elektrolyseurs grünen Wasserstoff zu erzeugen. Was hier auf den ersten Blick wie eine simple Kooperation zweier Unternehmen erscheint, ist doch in vieler Hinsicht neu.



## Facts

- 5,6 MW installed capacity
- Location: Velm-Götzendorf in Lower Austria
- State-of-the-art plant technology
- Expected electricity production per year 13,7 GWh



## UpHy II

# Ground-mounted photovoltaic plant with solar tracking in Lobau allocated to UpHy

### Facts

- 5,59 MW<sub>peak</sub> installed capacity
- Location: OMV Tanklager Lobau
- ground-mounted photovoltaic plant with solar tracking
- increases sustainable electricity production by about 10%
- Expected electricity production per year up to 7 GWh



<https://www.omv.com/en/news/220221-omv-starts-up-ground-mounted-photovoltaic-plant-with-solar-tracking-in-lobau>



# UpHy II

## Power Purchase Agreement (PPA) signed with Verbund



### Facts

- Plant operator: Verbund AG
- Hydro Power Park
- 5 MW base load
- Duration 5 years
- Expected electricity production per year up to 43,92 GWh



Picture source: [https://de.wikipedia.org/wiki/Kraftwerk\\_Freudenau](https://de.wikipedia.org/wiki/Kraftwerk_Freudenau)

# UpHy II

## ISCC - Certification



### Valid Certificates

Show 10 entries

Search: rfnbo

Status	Certificate ID	Certificate Holder	Scope*	Raw Material	Add-Ons**	Products	Valid From	Valid Until	Suspended	Issuing CB	Map
✓	EU-ISCC-Cert-DK220-219592024	GrønGas, Hjørring A/S, Hjørring, Denmark	LP, OT	Renewable Electricity, Carbon dioxide (CO2)		RFNBO Hydrogen, RFNBO LNG	2024-11-26	2025-11-25		Baltic Control Certification, Risskov, DK	
✓	EU-ISCC-Cert-DK220-219582024	Grøn Brint A/S, Hjørring, Denmark	OT	Renewable Electricity		RFNBO Hydrogen	2024-11-20	2025-11-19		Baltic Control Certification, Risskov, DK	
✓	EU-ISCC-Cert-DE102-24070138	OMV Downstream GmbH, Schwechat, Austria	CPP, ELP	Cashew Nut Shell Liquid (CNSL), Rapeseed / canola, Residue of FAME end distillation ...		Co-processed oil to be used for replacement of diesel, Co-processed oil to be used for replacement of naphtha, Biomethane ...	2024-07-10	2025-07-09		TÜV SÜD Industrie Service GmbH, München, DE	
Status	Certificate ID	Certificate Holder	Scope*	Raw Material	Add-O...	Products	Valid ...	Valid ...	Suspen...	Issuing CB	Map

Showing 1 to 3 of 3 entries (filtered from 68,508 total entries)

CERTIFICAT

CERTIFICADO

CERTIFIKAAT

認證證書

CERTIFICATE

ZERTIFIKAT



### Certificate

according to the  
**Renewable Energy Directive (RED II)**  
(Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (recast))

**Certificate Number: EU-ISCC-Cert-DE102-24070138**

**TÜV SÜD Industrie Service GmbH**  
**Westendstr. 199, D-80686 Munich**  
certifies that

**OMV Downstream GmbH**  
**Mannswörther Straße 28, 2320 Schwechat, Austria**

complies with the requirements of the certification system  
**ISCC EU**  
(International Sustainability and Carbon Certification)  
and the requirements of the RED II.

**This certificate is valid from 10.07.2024 to 09.07.2025.**

The site of the system user is certified as:

Processing Unit  
Co-processing Plant  
**Electrolyzer**

Munich, 03.07.2024  
Place and date of issue

  
Dr. Sara Castellani  
Stamp, Signature of issuing party

The issuing Certification Body is responsible for the accuracy of this document.  
Version / Date: 2 / 28.01.2025

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UPSCALING OF GREEN HYDROGEN

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Thank you!







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