

OMV



Sustainable bunkering on the Danube: Marine Gasoil ECO20

Danube Commission

8. October 2024



OMV Strategy 2030.

OMV is an Austria's largest listed industrial company. As a global energy and chemicals company, our goal is to become a leading supplier of sustainable fuels, chemicals and materials by 2030.

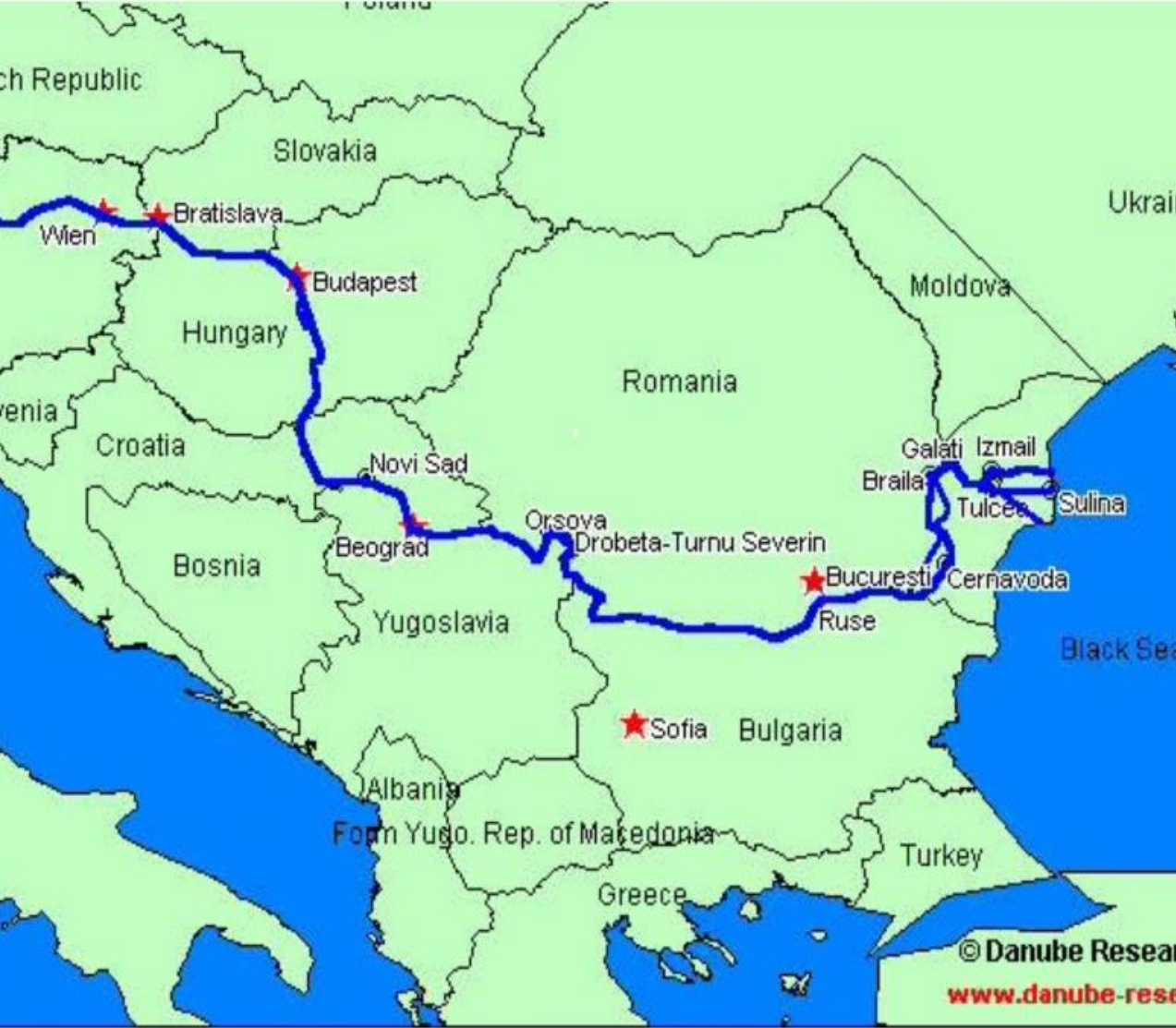
Sustainability and circular economy solutions are at the heart of our strategy. Our goal is to become carbon neutral by 2050 at the latest.

Putting Fuel & Feedstocks on a sustainable footing for the energy transition

- Our goal is to increase our production of sustainable fuels and chemical feedstocks to 1.5 million metric tons per year by 2030.
- At the same time, fossil throughput will be reduced by 2.6 million metric tons per year by 2030.
- OMV's ambition is to increase the sustainable product share in total Marine fuels sales to 10% by 2030.



DANUBE NAVIGATION IN FIGURES



Danube Infrastructure - REWWay

2414 KM

km of navigable waterway

2500

Barges, pushers, and self-propelled vessels

3

Bunker stations 2 on the Upper Danube and 1 on the Lower Danube

HVO

What's HVO?
(youtube.com)

(Hydrotreated Vegetable Oil)

- is a **road-ready, high-performance fuel** derived from **renewable or waste-based feedstocks**
- **used 100% or in various blends**
- **long term stability**, similar with fossil diesel
- **very good cold weather performance** (CFPP -22 to -40)
- **very good combustion** properties due to high cetane number
- is bringing **environmental benefits** while having **similar properties** to conventional **Diesel fuel**
- **can reduce up to 80% CO₂ emissions compared to conventional fuel**
- **is suitable for all diesel engines, no modifications required**
- **additives are required for lubricity**

FAME



Fatty Acid Methyl Esters

- is a **renewable alternative** that can be **blended with fossil diesel in various proportions**
- **used blended** from 7% to 20%.
- **less stable** as can absorb water and lead to microbial growth
- **poorer cold flow properties** (CFPP 0 to -10)
- **moderate combustion properties** due to tendency to coking
- **good lubricity**
- **can reduce with 55% CO₂ emissions compared to conventional fuel**
- **is suitable for all diesel engines only blended, no modifications required**

OMV Marine Gas Oil ECO20 – Our sophisticated solution for the challenges of inland shipping.



Innovative solution in inland navigation

- 20% HVO-share by ISCC certified mass balancing; an established approach as already used in the aviation (SAF) sector
- Excellent storability, low hygroscopicity
- Free of FAME and sulphur



Easy and immediate application

- Drop-in product, no change to the equipment needed
- Loading via barge, truck and RTC possible
- Same norms standards as conventional marine gas oil



Proven CO2 savings in shipping

- GHG-savings of min. 11 %* over the entire life cycle of the product
- HVO is produced via hydrotreating-process from feedstocks such as plant oils, waste, residue, as well as advanced oils

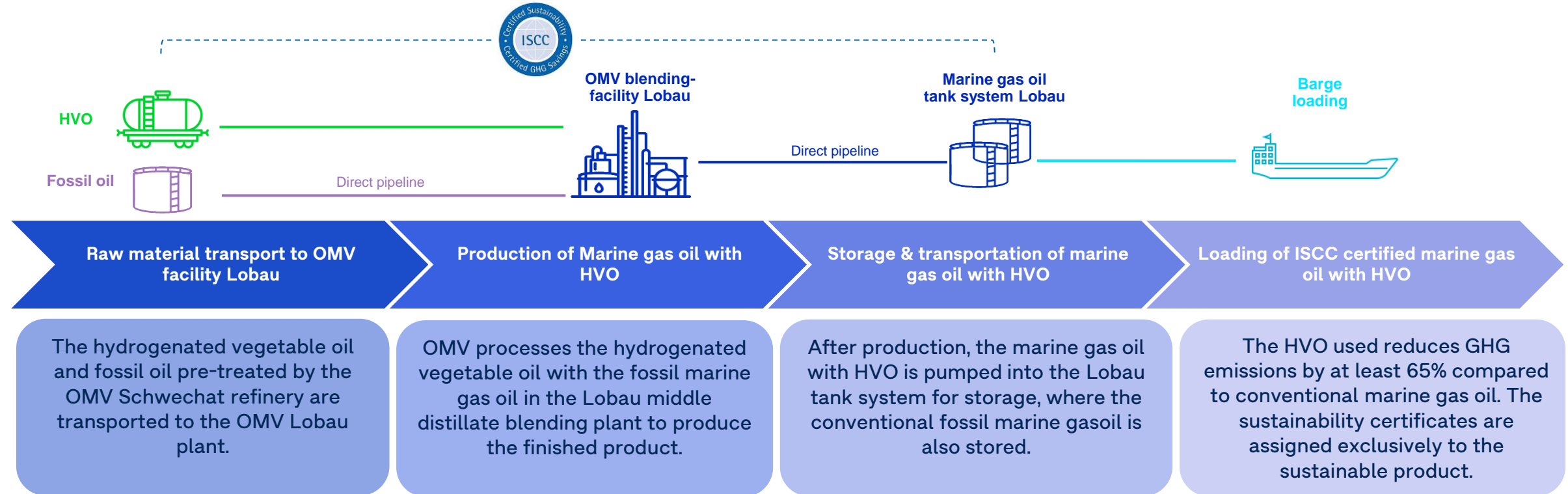
*) compared to the fossil comparator by EU RED II

Production & certification with ISCC



An established and efficient supply chain that offers flexibility

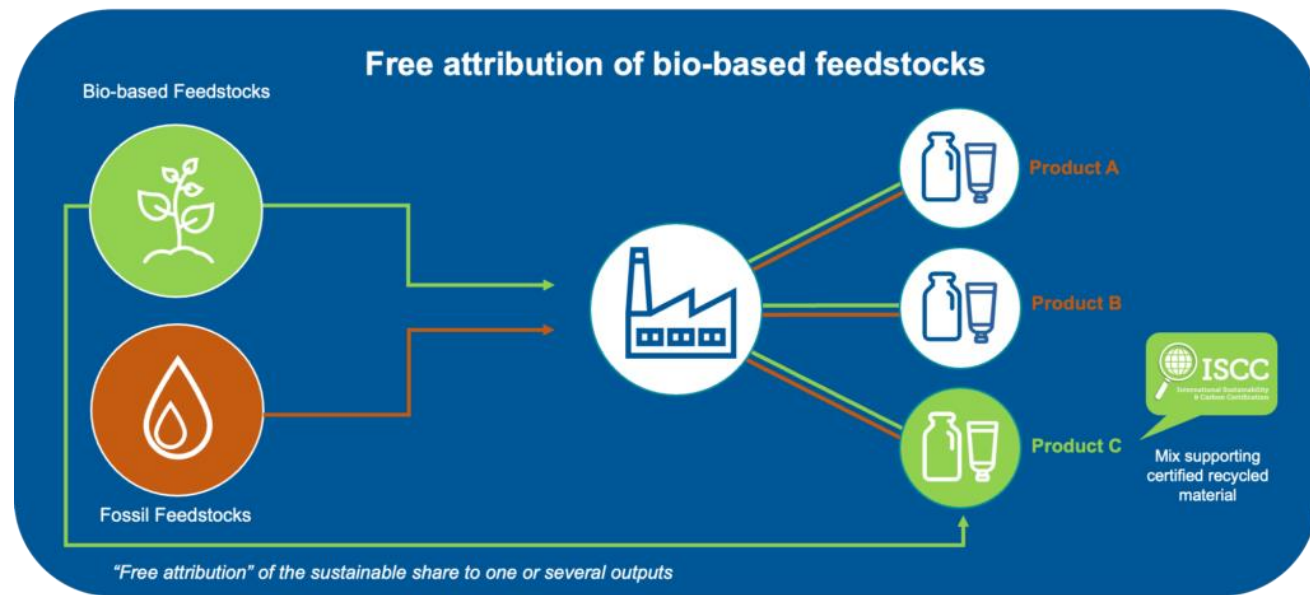
OMV Marine Gasöl ECO20 is certified according to the ISCC Plus standard. This ensures the traceability of sustainable materials through international supply chains to the end product. The greenhouse gas emission savings, calculated and certified according to the highest European standards, are fully compliant with EU RED II.



ISCC mass balancing tracks the material flow through complex value chains



- The mass balance system is a type of accounting system in which the sustainability characteristics of the materials are recorded and precisely tracked for input, output and stock.
- Assuming an actual physical material input, the stock of sustainable materials and the associated sustainability characteristics can be allocated to different product outputs for accounting purposes.
- Mass balancing is subject to strict requirements in terms of calculation, accounting period and transparency. In addition, the balance sheet must always be site-specific and confirmed annually by an external audit.



<https://www.iscc-system.org/certification/chain-of-custody/mass-balance/>


The certificate - ISCC Sustainability Declaration

- 1. Conventional and bio-based raw materials are mixed and processed together.
- 2. The physical mixing causes the mixture to lose its individual properties. The sustainability properties and GHG savings can therefore only be determined via accounting.
- 3. Output products with different sustainability characteristics can be generated from the same storage system.
- 4. The sustainable share of the delivered product is documented with ISCC Sustainability Declaration (SD), sample certificate on the right.

Sustainability Declaration according to ISCC PLUSV3.5.2

Unique number of Sustainability Declaration:01/2024-06_HVO

Date of issuance (DD.MM.YYYY):05.06.2024


International Sustainability & Carbon Certification
www.iscc-system.org

Supplier	Recipient
Name: OMV Downstream GmbH / OMV Raffinerie Schwechat	Name:
Address: Mannswörtherstraße 28 2320 Schwechat Austria	Address:
Certificate number: ISCC-PLUS-Cert-DE102-23120227	Contract number:
Address of dispatch/shipping point of the sustainable material: <input checked="" type="checkbox"/> Same as address of supplier	
Address of receipt/receiving point of the sustainable material: <input type="checkbox"/> Same as address of recipient	
Date of dispatch of the sustainable material (DD.MM.YYYY):01.06.2024	

1. General Information

Type of product:HVO

Product specification (if applicable):HVO used as component for marine gasoil

Raw material category¹:
☐ Circular ☐ Bio-Circular ☒ Bio ☐ Renewable- energy-derived

Unit (please select) : mt

Total quantity of certified material:
mt

Total quantity of delivery (optional):
mt

Percentage of certified material:
N/A % (of the total quantity of delivery)

Type of recycling operations (circular/bio-circular):
☐ Chemical ☐ Mechanical ☒ Not applicable

Waste status (circular/bio-circular):
☐ Post-consumer material ☐ Pre-consumer material ☒ Mixed/unspecified

Type of raw material (optional):

Raw material specification (if applicable):

Country of origin of the raw material (optional):

Our promise:

PROGRESSING TOGETHER

Progressing together through a reliable supply of highest quality products delivering future innovative sustainable products



RELIABLE



Reliable supply and delivery
Industry expertise
Value-driven solutions



INNOVATIVE



Highest-quality products and services
Future innovative solutions
Seamless digital journey



SUSTAINABLE



Highest safety standards
Sustainable products and services
Sustainability knowledge providers



“The future will either be sustainable, or there will not be a future at all.”



OMV



Thank you!





How are GHG emissions from fuels determined?

