



Factsheet OMV Tank farms in Austria

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OMV Downstream

OMV has set up a network of tank farms in order to bring its high-quality products closer to its customers. All locations are optimally connected to pipelines as well as to rail, road or inland waterway transport routes. The OMV tank farms have the most up-to-date environmental facilities at their disposal. Hydrocarbons will escape unavoidably during a normal refilling process, but the modern bottom-loading stations are able to prevent this from happening through gas displacement and waste air treatment. In this process, the tank trucks are refilled from the bottom, while the displaced gases are captured and treated in a purification system. This method shortens and simplifies the refilling procedure – also for the tank truck driver. In addition, it is possible to refill several products at a time.

Lobau tank farm

Like the Schwechat refinery, the Lobau tank farm is located in the eastern part of Austria where demand is the highest and infrastructure is excellent. In the Lobau tank farm, OMV can store around 1.6 million m³ of crude oil, intermediate and finished products as well as additives in 87 tanks. The largest OMV storage tank can hold 130,000 m³; the smallest can hold 50 m³.

Production at Lobau tank farm

The Lobau tank farm is a production plant as well as a storage facility for intermediate and finished products. Gasoline, diesel and extra-light heating oil are mixed in two mixing plants, which are able to mix up to 1,400 m³/h of finished products. In the Lobau tank farm also both Performance Fuels of OMV, Maxx-Motion Diesel and MaxxMotion Super100 are produced in state-of-the-art techniques. This corresponds to 1,400,000 l/h, which would be enough fuel to power one car with average mileage for 1,000 years. Every year around 6.8 million tons of mineral oil products are pumped through a total of 20 Danube pipelines between the Schwechat refinery and the Lobau tank farm. The pipelines, each of which have a diameter of between 80 and 300 mm, also help to relieve traffic congestion on Vienna's roads: if this amount of oil were transported by tank truck, there would be an additional 1,700 vehicles per day on the south-eastern bypass.

State-of-the-art tank technology

Refilling a large tank truck only takes 25 minutes. Even though the process is so fast, modern technology guarantees that no gasoline fumes escape into the environment: OMV's gas reclamation plant gathers displaced vapors into a special container and pumps them back into the production cycle, where they are re-used as raw materials. This modern and environmentally friendly procedure is called bottom-loading. It is currently used in eleven OMV loading sites. At the 1.08 km² production area of the Lobau tank farm, up to 300 tank trucks are refilled every day using the bottom-loading procedure. The two remaining top-loading systems are used to refill tanks with diesel fuels and extra-light heating oil; there is no problem with leaking product vapors here.

Additional delivery routes

As well as delivery by tank truck, there are other routes available for the transportation of goods from the Lobau tank farm to ensure the maximum flexibility of both the tank farm and the Schwechat refinery. One of these routes is the product pipeline west, which provides a direct and energy-efficient supply link. The pipeline supplies the St. Valentin tank farm, and thereby the whole of western Austria, with extra-light heating oil, diesel and gasoline as well as MaxxMotion Performance Fuels. The pipeline is 172 km long and is monitored at all times to ensure a safe operation. In addition, there are 200 rail tank cars daily available at Lobau to carry out deliveries.

Transport by rail is used primarily to supply the Austrian tank farms and to import intermediate products for the Schwechat refinery. Key heating-oil customers and foreign OMV subsidiaries also receive the high-quality OMV products by rail. The rail tank cars are loaded at four loading stations. A closed filling system immediately sends any escaping product vapors back into circulation and thus ensures maximum pollution control. Around 31,000 rail tank cars carrying a total of around 1.9 million tons of mineral oil products pass through the OMV tank farm in Lobau every year. Around 900 crude oil vessels are filled annually at the Lobau oil port with a total of 1 million tons of mineral oil products. A quarter of this is exported primarily to Hungary and Slovakia. The installed vapor recovery plant ensures that no harmful fumes are able to escape into the atmosphere. Expertly trained



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staff ensures that the Lobau tank farm is operated at maximum safety levels, supported by ultramodern equipment such as the fully automatic fire alarm system and fire extinguishing facilities. A sewage treatment plant with a biological purification process is used to purify the water.

Graz tank farm

The Graz tank farm is comparatively small with a capacity of around 8,400 m³. Nevertheless, it is of enormous strategic importance for the supply of oil products to southern Burgenland and parts of Carinthia and Styria. OMV also exports its high-quality products to Hungary, Slovenia and Croatia from the Graz tank farm. A total of around 550,000 tons of gasoline, diesel and extra-light heating oil are delivered every year. Up to 120 tank trucks leave the Graz tank farm every day. The farm has one top-loading and three bottom-loading systems at its disposal, which allow the fast and clean refilling of tanks from above and below. The Graz tank farm has five elevated and four underground tanks and is turned over around 65 times a year. The storage and shipment of products is fully automated and computerized. The Graz tank farm receives most of its supplies by rail from the Lobau tank farm. This dispenses with around 40,000 deliveries by tank truck per year and thus helps relieve traffic congestion and reduce pollution on routes between Vienna and Styria. In the last few years, investments have also been made in environmental protection measures such as in the oiltight sewage system and the vapor recovery plant.

St. Valentin tank farm

The St. Valentin tank farm guarantees the supply of mineral oil products to western Austria. The 17 tanks close to the Enns River in Lower Austria can store around 464,000 m³ of finished and intermediate products. Here, over 60,000 tank trucks can be loaded annually with high-quality OMV products. Of the 15 loading lanes for tank trucks, six are equipped with the environmentally friendly bottom-loading procedure. A downstream vapor recovery system guarantees that gasoline fumes do not escape but are returned to the

pump flow. The additional new top-loading sites are available for refilling with diesel fuels and extra-light heating oil, where there is no issue with leaking product vapors. A sewage treatment plant with a biological purification process is used to purify the water. Since 1976 the product pipeline west (PLW) has provided the supply link between the Lobau and St. Valentin farm, which are 172 km apart. The PLW dispenses with 56,000 journeys covering 17 million km a year by tank trucks heavily loaded with mineral oil products on the A1 western motorway. The pump stations are checked on a regular basis: once a month an airplane checks the entire transmission route of the pipeline. A pipeline inspector even walks along the pipeline route in order to detect and eliminate any potential defects.

Lustenau tank farm

Around 150 filling stations, hauliers and key customers in Vorarlberg receive their mineral oil products from the Lustenau tank farm. The six elevated and five underground tanks are able to store about 5,600 m³ of mineral oil products. The farm is turned over almost 30 times a year. Every year, around 18,000 tank trucks pass through the farm. One top- and two bottom-loading stations are available for the shipment of gasoline, diesel and extra-light heating oil. Maximum safety levels and pollution control are maintained at the Lustenau tank farm by both technology and manpower: Technical installations include modern bottom-loading systems with vapor recovery units, the oil-tight sewage system and a fully automatic fire alarm system, while the human element is provided by trained fire protection personnel and on-site experts to carry out regular checks and exercises. Mineral oil products are delivered to Lustenau by rail mainly from the Lobau tank farm as well as from Germany.



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