







## Elmos Semiconductor SE ESG Policies

Section:	Environment
Chapter:	Water
Policy:	Water management
Coverage:	Headquarters in Dortmund (Germany) incl. production site <sup>1</sup> Risk analysis: Elmos Group
Supported UN SDGs:	     
Addressed GRI Standards:	303

*Note: The following policy targets the water management at our headquarters, which, at the same time, is our only production site (see coverage above). At our other locations, only insignificant amounts of water are required, mainly for sanitary facilities.*

The supply of clean water as a central resource for all areas of life and the economy is of fundamental importance – for human health, agriculture, energy production and industry. However, water risks, for example in the form of floods, droughts and rising sea levels, already pose a multi-faceted global threat. With water playing an important role in the semiconductor industry, e.g. for cooling purposes as well as washing and cleaning processes, Elmos has implemented a sound water management system.

As we are generally committed to the sustainable use of resources, we also use water as consciously as possible. We measure our water consumption, minimize it as best as we can, and treat our wastewater professionally.

**Water use:** Elmos products do not bind water themselves. In addition, the use of the products does not require any water as well. Therefore, the focus of our water management is particularly on the water requirement during the manufacturing process where water is primarily used for cooling and cleaning purposes. For the latter, DI water (deionized water) is required, which is produced by Elmos itself. During the processing of the wafers, this water, which is free of mineral, metallic, and ionic contaminants, is used for cleaning the wafer surfaces, for example. Freshwater requirements for kitchens and sanitary facilities are relatively low.

**Water withdrawal:** Our water is provided by a local water supply company who sources the freshwater from the nearby river Ruhr. The water we use can therefore be classified as surface water.

**Waste water:** Elmos has a waste water management system in place. It defines the waste water treatment methods (e.g. biocides, dry neutralization, fat separator) of the different types of waste water (e.g. acidic, solvent-containing).

Elmos discharges wastewater only indirectly. We do not discharge wastewater directly into surrounding waters but feed it into municipal wastewater treatment. As the discharge of wastewater into municipal sewage systems is subject to various laws and standards and has to comply with certain threshold values, Elmos regularly performs quality controls, both internally and by external third parties. Wastewater from our administration areas does not require any treatment. It is directly discharged into the municipal waste water system and fed into the wastewater treatment plants. This creates a regional, environmentally friendly water cycle.

<sup>1</sup> This is the only production site of the Elmos Group worldwide.

In addition, a large proportion of the deionized water used to clean the wafers is treated in the DI water generation plant on site and afterwards reused internally. The recycling rate here is around 70%. Another measure to increase our water recycling rate is the partial reuse of water already used in the production process for cooling purposes in the evaporative cooling and air conditioning systems.

*Note: The risk analysis covers all locations of the Elmos Group (see coverage above).*

**Risk analysis:** Within the scope of our water management system, we also continuously assess the risks associated with our water supply. The assessment of these potential risks is, among others, carried out by means of the *Aqueduct Water Risk Atlas* of the open source tool series *Aqueduct 3.0* of the World Resources Institute (WRI). The atlas classifies global watersheds according to various water risks. One risk indicator is water stress, which reflects the relationship between water demand and water availability. With Berlin, Seoul and Shanghai, three of our locations are located in areas with high or extremely high water stress. However, it should be taken into account that these Elmos locations are R&D or sales offices without own production facilities and thus locations with a very low water demand. Accordingly, the potential risk of water stress can be considered low. The only production site of Elmos is located at the headquarters in Dortmund (Germany) where the risk of water stress is classified as low. Still, we try to improve our (waste) water management continuously and try to minimize our water consumption.

<b>ESG policies</b>	Environmental protection and management
<b>ESG KPIs</b>	Water withdrawal
<b>Certificates</b>	Environmental Management Certificate ISO 14001:2015
<b>Accompanying documents</b>	Elmos Occupational Health and Safety, Environmental Protection and Energy Policy (German only)