

Everything flows

A huge amount of water passes through Evonik's plants every year. By far the largest part of it is recirculated, and practically all of the rest is returned to the bodies of water from which it originates. Almost no water is lost

INFOGRAPHIC MAXIMILIAN NERTINGER

ABSTRACTION

About a quarter of Evonik's water requirements is newly supplied each year.

446
million cubic meters

RAINWATER

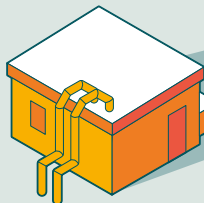
Captured rainwater and recycled water from neighboring companies.



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POTABLE WATER AND GROUNDWATER

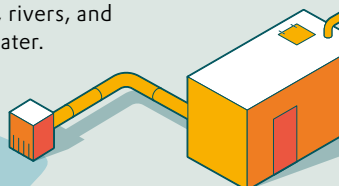
Freshwater from local water supply and wells.



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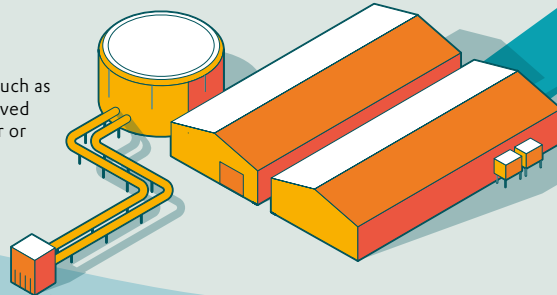
SURFACE WATER

Water from lakes, rivers, and other bodies of water.



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Pretreatment
In the first step, coarse impurities such as branches are removed from surface water or seawater.



SEAWATER

The Singapore location uses seawater for cooling.

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USE

The amount of water used is approximately equal to the content of Lake Ammer in Bavaria (1,750 million cubic meters).

1,810
million cubic meters

PRODUCTION

Water is used to create steam, as a medium for chemical processes, and for sanitary purposes.



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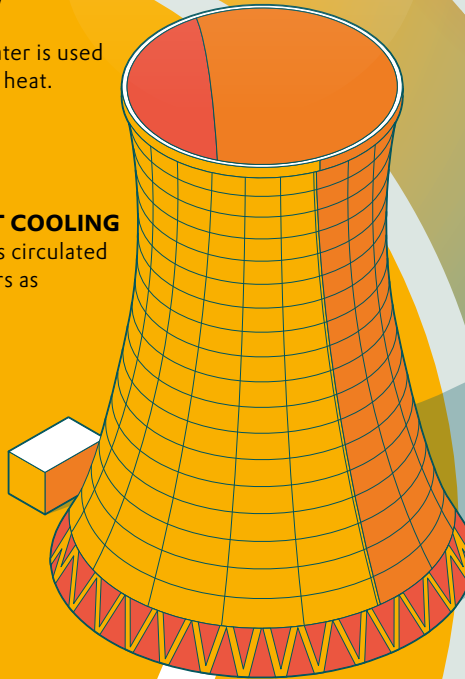
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THROUGH-FLOW COOLING

Freshly supplied water is used to dissipate process heat.

1.384

CLOSED-CIRCUIT COOLING
Most of the water is circulated and cooled in towers as required.

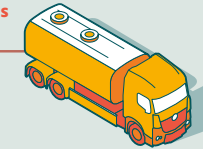


LOSSES

Small amounts of water evaporate or are used to dilute products.

7

million cubic meters

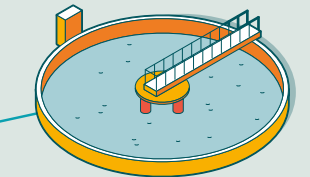


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RETURN

The used water is almost completely discharged into bodies of water.

439
million cubic meters



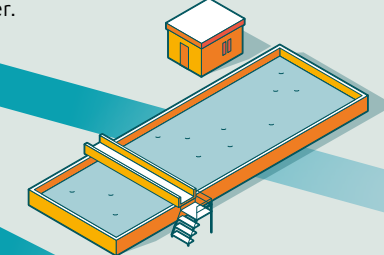
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EXTERNAL WASTEWATER TREATMENT PLANTS

Contaminated water is partially discharged to municipal wastewater treatment plants.

INTERNAL WASTEWATER TREATMENT PLANTS

At many of its locations, Evonik operates its own plants for the treatment of contaminated water.



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SEA

The uncontaminated cooling water in Singapore is discharged back into the sea.

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SURFACE WATER

Treated water and uncontaminated cooling water is returned to lakes and rivers.

