

SUSTAINABILITY FACT SHEET
ENERGY MANAGEMENT | OCTOBER 2022

POWER SUPPLY AND ENERGY MANAGEMENT AT WACKER

The chemical industry is one of the most energy-intensive sectors. WACKER is continually improving the energy efficiency of its processes. This enables us to remain globally competitive while contributing to climate protection.

Sustainability Targets at WACKER

Achieving WACKER's sustainability target of a 50% reduction in absolute Scope 1 and 2 emissions by 2030 is being effectively supported by energy-efficiency measures. Our energy-management system makes a significant contribution to this goal.

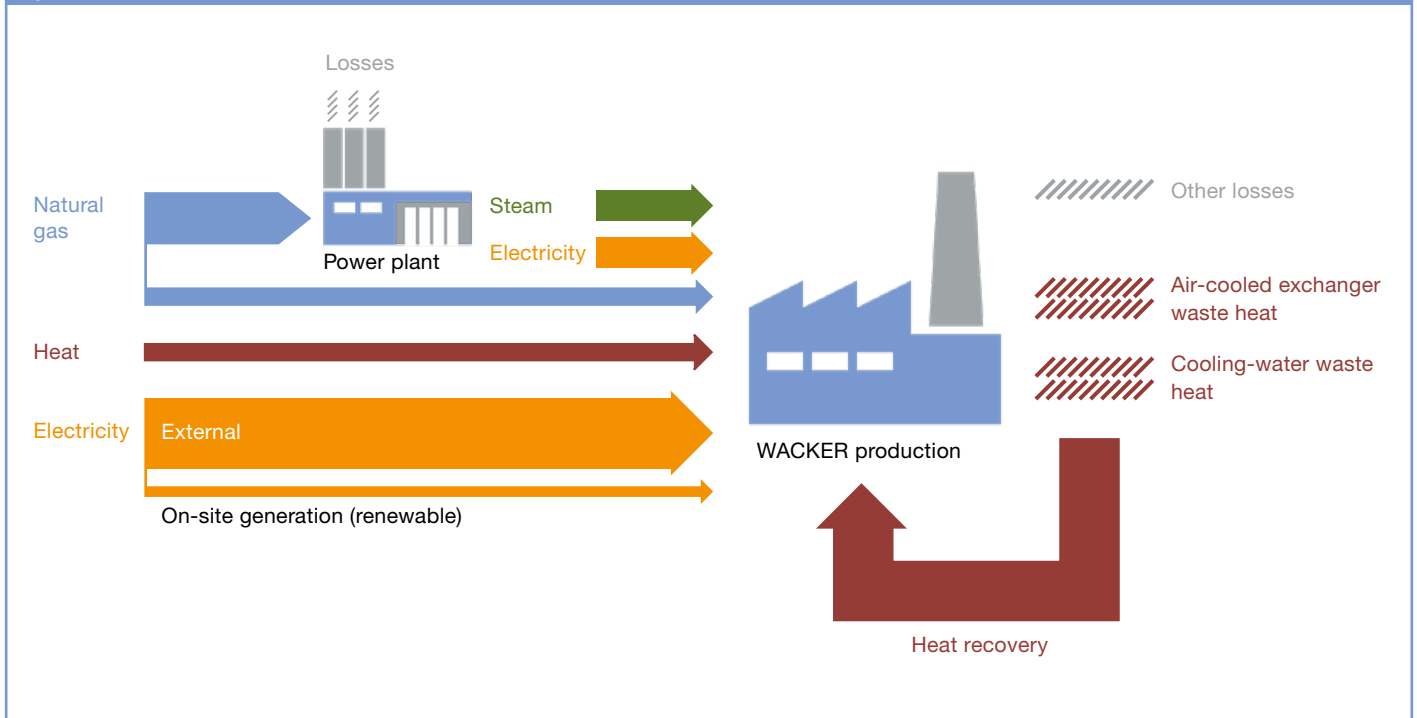
Electrified Processes

Over 70% of WACKER processes are already electrified (Figure 1). In addition, approximately two-thirds of the required process heat is obtained from waste heat. This is a good prerequisite for on-site net-zero production.

Less Natural Gas, Less Water

The objective for the coming years is to increase the use of waste heat. This waste heat should no longer be discharged via cooling water or air-cooled exchangers, but, e.g., converted into useful heat using high-temperature heat pumps and made available to consumers again. This means that, going forward, less natural gas will be needed for heat generation, so direct emissions (Scope 1) will be reduced. At the same time, this will lead to less use of cooling systems, subsequently saving more water.

Figure 1



Continuous Energy Efficiency

WACKER has an annually audited energy-management system certified to ISO 50001.

Continuous improvement of energy efficiency must be validated for (re)certification. Our energy management team, working closely with energy-management officers and contacts in the divisions and corporate departments, monitors the energy-saving measures and reports regularly on energy-related target achievement.

Ways to Achieve a Net Zero Carbon Footprint

In addition, climate objectives are to be supported in the future by on-site generation of electricity using photovoltaic systems. Studies are currently underway at various WACKER sites. WACKER is also switching to purchasing electricity from renewable energy sources.

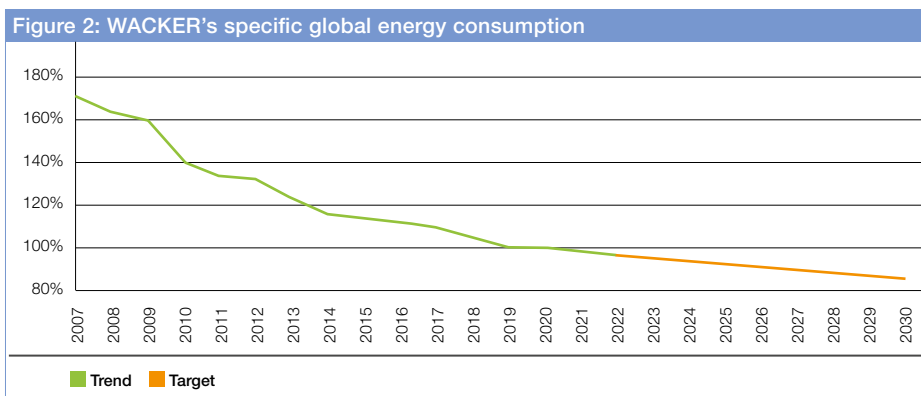
Track Records and Projects

- The Pilsen (Plzeň) site has already switched to 100% green electricity and steam and is therefore WACKER's first net-zero site.
- Holla will soon become climate neutral, too, as it is already using green electricity and is planning to convert from coal to biogenic carbon.
- The future power supply for the Burghausen plant was investigated in our "BGH plant 2030 energy strategy" project. Measures have been identified, particularly the utilization of waste heat through heat recovery. The next step involves the installation of pilot plants.
- Sufficient waste-heat utilization potential to make the site net zero exists at the Nünchritz site, as well.

Ever-More Stringent Requirements

Further conversion to heat recovery leads to an increase in electricity consumption. This can usually only be covered by increasing the grid connection capacity. At the same time, WACKER supports the local generation of renewable energy. Green energy must be available on the market at sufficient levels and at a competitive price. The expansion of renewable energy must therefore be significantly accelerated.

WACKER's energy-related objective: a 15% reduction in specific energy consumption from 2020 to 2030.



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