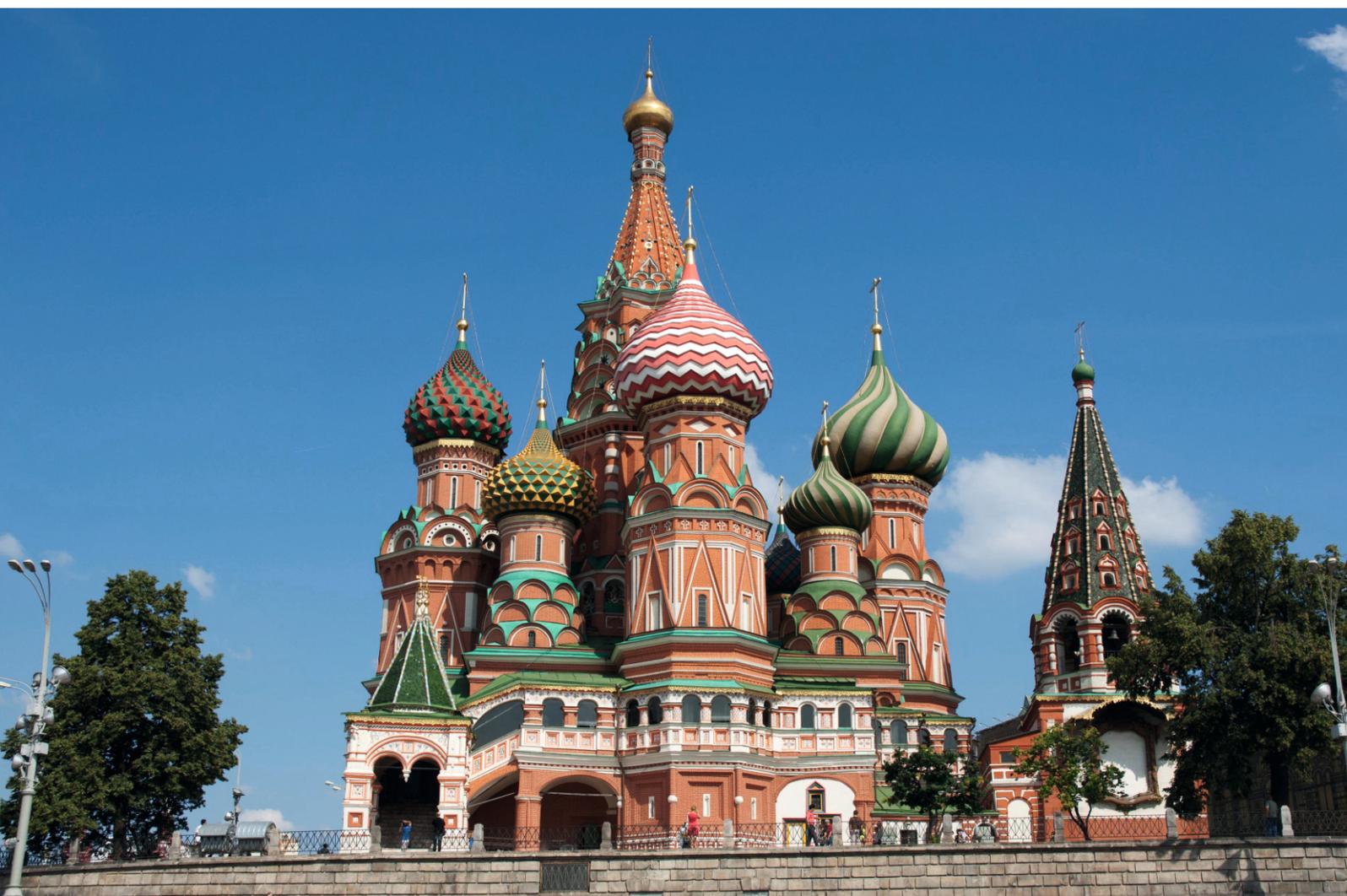


# Sodium hypochlorite production plant Moscow

## Russian Federation



In 2008 WTE Wassertechnik GmbH signed the contract for the design, build and financing of the sodium hypochlorite plant in Moscow, as a result of an international competition announced by the Government of Moscow.

In 2015 the sodium hypochlorite plant was successfully taken into operation, the highest requirements of quality for produced sodium hypochlorite, as well as the total capacity of the plant were successfully confirmed of WTE Wassertechnik GmbH.

# Technical details

The production of sodium hypochlorite is carried out by membrane electrolysis, followed by absorption. Now this technology is the most advanced both in Russia and in Europe and provides a high quality product.

## Project key figures

Start of construction    October 2009

Commissioning            May 2015

## Plant key figures

Capacity NaOCl t/a        50,000

Capacity NaOCl t/d        137

## By-products/Waste

Hydrochloric acid        3.1 t/d

Wastewater                129 t/d

Sludge                      1.2 t/d

Steam (water)            40.0 t/d

Hydrogen                  0.76 t/d

The purification of the sodium chloride is done in closed water cycles, almost effluent-free. Excess chlorine is processed to 1,100 t/a very pure hydrochloric acid in the hydrogen chloride synthesis plant. Furthermore, multi-stage and redundant average-protection facilities contribute to the highest plant safety.



The mechanical and electrical equipment of the production plant is made of high quality, durable and economically efficient products. High quality materials with an outstanding corrosion protection (this includes special plastics, stainless steel and titanium) are used according to the requirements of the different media.

