## Capital Group KOGENERACJA S.A.

Organization chart of KOGENERACJA S.A. Capital Group as at 31 December 2019



Zespół Elektrociepłowni Wrocławskich KOGENERACJA S.A.

**Zespół Elektrociepłowni Wrocławskich KOGENERACJA S.A.** is an energy company engaged in the generation of heat and electrical power and the transmission and distribution of heat. Combined heat and power generation is a process that ensures high energy generation efficiency on the annual average basis, which means that the chemical energy of primary fuels is utilized in the most efficient way of all CHP sector companies.

The energy efficiency of the combined heat and power generation process allows for savings of the primary energy contained in the fuel. Cogeneration production enables primary energy savings of at least 10% when compared with the separate production of electricity in a thermal power station and of heat in a heat-only boiler plant. The energy

efficiency requirement is laid down in the Cogeneration Directive of the European Union which offers preferential treatment for energy-generating installations that are considered environment-friendly.

## Company locations:

- Wrocław Heat and Power Plant in Wrocław at 24 Łowiecka Street,
- · Czechnica Heat and Power Plant in Siechnice near Wrocław,
- Zawidawie Heat and Power Plant in the Psie Pole district of Wrocław (eastern part of the city).

The Company's heat and power plants have a total power generation capacity of 365.7 MW and a total heat generation capacity of 1,080.4 MWt.

The heat and power plants serve as the central source of heat for Wroclaw, meeting the city's needs for heating, hot water and process heat and constitute electricity sources for the national power system.

## EC Zielona Góra S.A.

**EC Zielona Góra S.A.** is an energy company engaged in power generation as well as heat generation and distribution. Until the end of July 2004, heat and power were produced by cogeneration using coal as an input fuel. Following the commissioning of a combined cycle gas turbine (CCGT) in August 2004, the proportion of electricity and heat produced has been reversed and electricity is now mainly produced by partial cogeneration in the CCGT using fuel gas (gas from local sources).

The installed power generation capacity is 198 MW (combined cycle gas turbine).

The installed heat generation capacity is 303.594 MWt, including 135.00 MWt (CCGT), 167.00 MWt (gas and oil boiler plant) and 1,594 MWt (local gas boiler houses). The Company is the main source of heat and hot water for the city of Zielona Góra as well as the distributor of heat. The length of heating networks is 128.04 km (of which 80.61 km are pre-insulated).

The Company has 7 local gas-fired boiler houses which will be successively connected to the heating network in the following years.