OUR PRODUCTS AND SERVICES INCLUDE:

• Low-NO\textsubscript{x} system modifications for pulverized hard coal, peat, biomass and oil/gas fired boilers

• Biomass co-firing solutions for pulverized fired boilers

• Design, project and site operations, commissioning, operation and maintenance, warranty inspections and repairs and after sales services

• Combustion consultancy such as boiler performance analyses, combustion process optimization and operation load range improvements

• Feasibility studies and tailor-made solutions

• Low-NOx burners for wall and tangential firing system including over fire air (OFA) system

• Problem solving and troubleshooting including start-up and ignition systems and other auxiliary equipment, slagging, fouling and high temperature corrosion and combustion system and burner upgrades

• Computational modeling of combustion (CFD)

• Patented & licensed technology and in-house expertise

• Long-term cooperation partners worldwide

WE OFFER TOP TECHNICAL EXPERTISE WHICH LEADS TO BETTER FINANCIAL RESULTS AND REDUCES EMISSIONS.

• Excellent NOx performance with following features: rapid ignition, stable flame, high combustion efficiency, wide turn-down ratio, avoiding high temperature corrosion and slagging in furnace, controlling unburnt carbon (UBC) in fly ash

• Low investment costs - Short implementation period

• Reduced maintenance costs - Simplified concept and construction

• Minimum modification for auxiliary equipment - Reliable and safe operation

Customer’s voice:

“Fortum implements in our Jaworzno power plant, which is one of the biggest in Poland, a burner project, which reduces the nitrogen oxide levels. During this project the combustion technology of all boilers will be totally renewed to be in line with the new IED emission limits coming in force in 2016”, said in 2010 Jan Kurp, President of TAURON S.A. Poland
LOW-NO\textsubscript{X} BURNERS FOR PEAT AND BIOMASSES

NR-LE burner is developed for peat and biomass combustion for the purpose of reducing the NO\textsubscript{X} emission and minimum load. The NR-LE burner is based on NR burner technology. The NR-LE burner has been developed in co-operation with Mitsubishi-Hitachi Power Systems and Fortum.

LOW-NO\textsubscript{X} BURNER FOR WALL FIRING

NR burner invented and further developed by Mitsubishi-Hitachi Power Systems in Japan. The NO\textsubscript{X} reduction mechanism of the NR burner is based on high flame temperatures. The high temperature and stable flame are achieved by a Flame Stabilizing Ring.

LOW-NO\textsubscript{X} BURNER FOR TANGENTIAL FIRING

An unique low-NO\textsubscript{X} technology of rapid ignition flame for corner and tangentially fired boilers. Ultra-stable flame makes it possible also to reduce the boiler minimum load. The technology is patented by Fortum.