## Green product range

HYDRO PULP & PAPER METALS SEPARATION Recovery boilers that incinerate the black Schuler ECOFORM - a collection of measures to increase the Hydropower: Electromechanical equipment for hydropower liquor occurring in pulp production as well plants (32,000 turbines with a total output in the region of as recovering the chemicals needed for energy efficiency of products: From analysis and optimization Municipal and industrial waste water treatment: Systematic 457.000 megawatts have been installed or refurbished to pulping and making the steam thus generated of existing machines to the development of new processes. and efficient treatment reduces water and energy consumption suitable for use in power generation modules, and system solutions and conserves raw materials. Acid reduction in the production of stainless steel: The Thermal sludge treatment – dried sludges have a much higher Steam generating plants that make the biomass (e.g. bark) from Pyromars process treats the waste pickle to produce a recalorific value and up to 80% less volume, which leads to pulp production and the waste materials produced in paper usable mixed acid regenerate. The ZEMAP plant concentrates reduced transport and operating costs. It provides marketable recycling suitable for use in power generation the remaining acidic waste water from rinsing and pickling. residual material that can be used as renewable energy Modernizations and retrofitting of new turbines and generators which is then recovered in the Pyromars process. source. Biomass boilers: Fluidized bed boilers that make it possible to Recycling of electrical and electronic scrap: The secondary copper mini-smelter enables reuse of copper alloys and produce energy from different types of biomass, for example, Offshore solutions: Tidal current turbines, tidal lagoon and to generate heat from biomass and biogenic residues and recycling of copper scrap. Both base metals and precious Waste recycling - treatment and fermentation of waste for the hydropower plants waste. metals can be recycled. production of biogas Lightweight automotive construction: Welding plants to manufacture tailored welded blanks, particularly to combine hot-forming steel grades of different strengths, and hot Pumps for water transport, irrigation of agricultural land and Gasification plants in which only renewable fuels are used to stamping lines to manufacture stronger and lighter automotive applications in various industries generate energy by means of carbonization or pyrolysis Production of biomass pellets Highly efficient turbogenerators for thermal power stations Low and ultra-low NOx burners are used in the steel and (modern gas turbine plants are much more efficient than the aluminum industries to reduce nitrogen emissions. old ones using fossil fuels and they also help to lower the CO<sub>2</sub> Drying and pelleting of biomass: Complete solutions for emissions from power generation). generating energy from biomass Chromium plating lines that use TCCT (Trivalent Chromium Coating Technology) / trivalent chromium (instead of Generating energy with waste materials from the papermaking hexavalent chromium) for plating of packaging steel. Thus process: Rejects, sludges and other residual materials are they meet the REACH requirements, that ban Chromium6+. converted into fuel. Recycling technologies ranging from complete plants to single

equipment and services for the processing of various waste streams: Rejects from the pulp and paper industry, electronic/electrical waste and refrigerators, cable scrap and metals, end-of-life vehicles and tires, wood waste, organic waste, as well as domestic and industrial waste.

Flue gas cleaning plants; wet and dry cleaning processes for acidic pollutant gases, plants to reduce nitrogen oxide emissions and combinations of complex flue gas cleaning technologies:
Used in power plants, biomass plants, waste incineration plants.

Exhaust gas cleaning for maritime vessels: ANDRITZ has developed the SeaSOx scrubber technology for the maritime industry. It can be installed on all types of ships, either on a new

and various industrial applications

build or retrofit basis