

Power

# A MARKET THAT ENERGIZES THE WORLD



## EXPERT SOLUTIONS FOR YOUR PROJECT

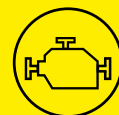
During the next 20 years, the world's population is set to grow to almost 8.8 billion people: That is 1.5 billion more than at the present time and they will all need energy.

More than **half the growth in global energy demand will go into generating electricity**. In the process, natural gas and renewable sources of energy will increasingly replace coal.

**More than one third of the growth in electricity generation could be attributable to renewables**. A similar trend is occurring in global primary energy growth, where a quarter of this volume could be covered by renewables.

**For coal, oil, gas, wind or water:** Kelvion has the **right solutions** when it comes to generating and providing energy. Our products are used in power plants worldwide, irrespective of global trends, **our expertise and knowledge involving the fuels powering the world economy will continue to be in demand.**

## OUR AREAS OF EXPERTISE



DIESEL & GAS ENGINES



FOSSIL POWER PLANTS



GRID



STEAM & GAS TURBINES



RENEWABLE ENERGIES

# A SELECTION OF KELVION SOLUTIONS WHEN IT COMES TO GENERATING AND PROVIDING ENERGY

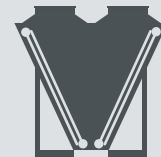
## PLATE HEAT EXCHANGERS

- ▶ Worldwide technology leader in the manufacture and development of plate heat exchangers
- ▶ Most extensive product ranges on the market



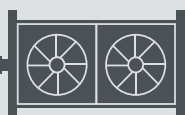
## RADIATORS & DRY COOLERS

- ▶ Wide range of available plain and finned tubes
- ▶ For water or oil cooling in a wide range of applications & processes
- ▶ Cooling of lube oil systems and closed cooling water circuits in power plants
- ▶ Customized designs to fit customer requirements



## TRANSFORMER OIL COOLER & PUMPS

- ▶ Air Coolers, Waters Cooler and Pumps for oil-immersed transformers
- ▶ Technical advice and long-term experience for our worldwide customers
- ▶ Materials and products selected, designed and optimized to customer specifications



## CHARGE AIR COOLER

- ▶ Safety under extreme conditions
- ▶ Compact design - low weight and small space requirements
- ▶ Close collaboration with engine manufacturers and vehicle contractors



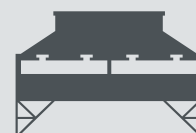
## CLOSED CIRCUIT COOLER

- ▶ Safety heat exchanger with double tube system
- ▶ Tube systems with enhanced heat transfer
- ▶ Different materials and surface protection for gas side cooling surface
- ▶ High corrosion resistant tube material (stainless steel, titan)



## AIR FIN COOLER

- ▶ Big variety of air cooler designs for specific customer needs
- ▶ Fan drives meeting low noise and low vibration requirements
- ▶ High performance finned tubes



## STEAM SURFACE CONDENSER

- ▶ Special application of Shell & Tube to condensate the exhaust steam from steam turbines
- ▶ Performing vacuum to assure overall efficiency of the steam turbine cycle
- ▶ Package solutions for customer's needs



## SHELL & TUBE HEAT EXCHANGER

- ▶ For a wide variety of applications
- ▶ Cost efficient and reliable solutions
- ▶ Standardized product lines for an optimal price/quality ratio
- ▶ Customized designs for the most demanding duties



## AIR PREHEATER

- ▶ Air preheaters heat up the combustion air used in a fossil power plant boiler or waste incineration plant to optimize the combustion process
- ▶ Wide range of available plain and finned tube systems



## COILS

- ▶ Air coolers, air heaters, evaporators, condensers, heat pipes and high efficiency run around coils – carefully selected and appropriately fitted to our customers' needs
- ▶ The production flexibility of diverse fin tube patterns, materials and additional options enable us to offer the best possible solution

