

Industrial Applications - Power Generation

A consequence of rapid economic growth and increasing living standards in many parts of the developing world is that the demand for energy is rising faster than ever. When this growing demand is set against the crucial need to limit climate change, the challenges facing the world's power-generating industries are only too apparent.

Fortunately, new technologies are helping some of the emerging and potentially less-damaging sources of energy compete economically with those established techniques that depend upon the combustion of fossil fuels. Stainless steels have a role to play in many of these new technologies and in this section of the library you will find examples of its use in such important low-carbon or zero-carbon processes as nuclear generation, wave energy, solar panels, geothermal energy and many more.

Where the continued use of fossil fuels is unavoidable, stainless steels can help limit the emissions per Kwh through the use of more efficient turbines and recently-introduced "combined-cycle" generators.