# HMJ Newsletter 04'2025

Rubber industry is energy-intensive business, where natural and synthetic rubber is processed through mixing, rolling, extrusion and pressing to form final products completed by thermo-chemical vulcanisation. It consumes substantial amounts of electric power for the drives of the machinery as well as heat in form of water steam flows or heated saline baths.

A full&complex Energy Audit to the standard EN-16247of the big rubber factory was carried out by HMJ over 6-month period, involving analysis of several industrial buildings, electric power grid, process steam, process air, water and other media. The interactive model of electric energy flows and interactive process model of heat energy flows were constructed, making possible calculation of energy and fuels consumption at any given season or production load. Several concepts of energy performance improvements were developed, aiming at bringing the EnPI (Energy Performance Indicator) which is in this case annual energy consumption per ton of rubber mixture, to the level **30% better** than global benchmark.




