

# From Unit Factory To Reciprocal Complex Factories or Kombinat (Industrial Complex) Energy Conservation Diagnostics and Measurements

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## ABSTRACT

In accordance with Kyoto Protocol, Japanese government is making efforts to drastic strengthening of energy conservation measures and accelerated introduction of new energy according to Grand Plan of Global Warming Measures.

On energy conservation measures, completed efficient use of energy in an industrial sector consuming about half of total energy consumption in Japan is very important.

However, industrial sectors invest progressively to energy conservation equipments after oil crises and energy conservation in factories has been improved so much then we maintain the world-highest energy conservation level compared with the other advanced nations.

On the other hand, according to technology development of heat recovery, heat exchanger, insulation, utility transportation and analysis method to investigate comprehensive energy conservation measures, we can broaden practical use of energy we thought unavailable till now.

For example, as we can utilize efficiently waste heat of a factory to neighbouring factory, energy conservation potential is spread widely by reciprocal energy use between complex factories and in kombinat.

As above stated, we must improve energy conservation from 「Point, namely unit factory」 to 「Line and face, namely reciprocal complex factories」.

Here I present the fruitful results and importance of unit factory's diagnostics and measurements and the intermediate report of Mizushima Kombinat diagnostics.