



Cogeneration

Our advanced Co-Generation system is a thermodynamically efficient use of fuel, compared to the separate purchase of electricity from the national electricity grid for power and heating needs; which can decrease primary energy costs and CO2 emissions.

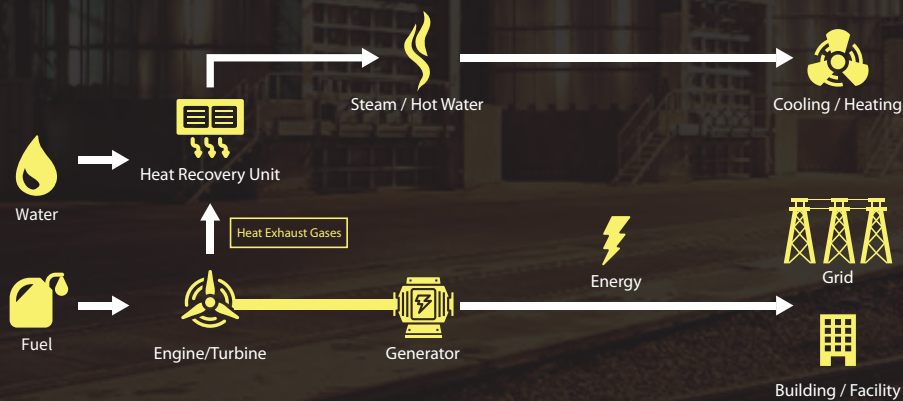
The power produced can either be used for internal needs or supplied back to the power grid. In the case of a power outage, this system can also act as a backup power source.

Benefits of this System:

- Electricity cost reductions
- Efficient energy conversion & utilization
- Local electricity generation & supply
- Lowers CO2 emissions released
- Lowers capital cost for new equipment

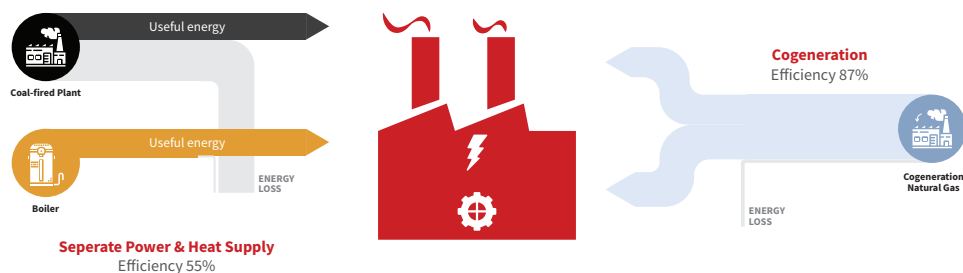
Gas Cogeneration System Architecture

Cogen through combined heat and power is the simultaneous production of electricity and heat from a single fuel source. This is a highly efficient form of energy conversion as recycling the waste heat reduces the need for burning fossil fuels.



Why cogeneration is more efficient than conventional coal power plants

Comparing the energy efficiency of cogeneration with conventional coal power plant and heating system



With a coal fired power plant, more than half the energy input is wasted. Cogeneration reduces the primary energy demand by 36%.