

PATENT N° FR0309895

PROCESS TO INCREASE THE CAPACITY AND EFFICIENCY OF GAS FACILITIES USING A GAS TURBINE

The capacity of facilities that produce energy by means of gas turbine is decreased by 0.5% to 1% when the temperature of comburent air increase by 1K.

The processes described in the patent allow the decrease of the comburent air temperatures to values below 0°C and therefore the cancellation of the effect linked to ambient air temperature.

The necessary cold:

- either comes directly from an existing source (line en LNG terminal),
- or is produced by a compression refrigeration cycle whose power is only fraction of the surplus delivered by the turbine,
- or is produced by thermal energy thanks to ,an absorption refrigeration cycle.

