TEDOM
YANMAR GROUP

MEXICO

CHP UNIT INSTALLATION
at Progel, Mexico

PROGEL is a leading manufacturer of grenetina, natural gelatin. Given the fact that grenetina production process is energy-demanding, PROGEL sought methods to cut down energy costs. The option of installing highly-efficient cogeneration technology was evaluated as the most effective choice. Juan Francisco Rios from Grupo Energos mentioned: „The experience with TEDOM Cento 555 CHP unit installed in Progel has exceeded expectations. It is worth mentioning that during 6 months there have been savings of approximately 160,000 USD, which confirm that cogeneration is an ideal project for companies which require heat and electricity. Added to this, plant self-sufficiency to operate and stop when needed has been of great help. There is no doubt that cogeneration in distributed generation is the best solution for Mexican industry."

CHP unit type	TEDOM CENTO 555
Fuel	Natural Gas
Electrical Output	453 kW
Heat Output	725 kW
Total Efficiency (LHV)	90.5 %
CO_2 emissions reduction	2,100 tons per year, equals to 397 cars
Commissioning Date	November 2019
Place of installation	Léon, Mexico

Combined heat and power production, also known as cogeneration, is an electricity production method that utilizes the heat released by the electricity production process in a useful manner. In doing so, a high utilisation efficiency of the energy from fuel is attained when the fuel is mostly a natural gas, LPG or biogas. Cogeneration pays off where demands for higher supplies of heat or cold exist. The power generated in the CHP unit can be utilised for the plant's own consumption or it can be distributed to the power grid.