TEDOM

YANMAR GROUP

Clean and Reliable Energy Solutions

TEDOM Global network

1100+
Employees

350+
Service engineers

400+
mil EUR Turnover

50+
Business Partners

34
Years in the Market

10 Global Locations

4 Production Sites

Extensive own service networks and 100+ service partners



Interní dokument

CHP Units



Hydrogen H_2 READY

TEDOM in Spain: Local Partners, Global Experience

Local presence

25 **TEDOM units delivered in Spain**



Partnership approach:

Local partners for sales, installation and service support. Strategic cooperation with ESCOs, EPC contractors and project developers for larger CHP and trigeneration projects.

Proven experience

137 MWe
173 units in Czechia, with ČEZ Energo

2 MWe
Cogeneration for Coventry Arena, London, UK

12 MWe
Trigeneration for Qantas, Sydney, Australia

Open to Partnership with local ESCOs and EPC contractors to deliver large-scale energy projects. .

TEDOM + ČEZ Energo 137 MWe of PPA projects in Czech Republic

Partnership

ČEZ Energo founded (2010) in cooperation with TEDOM to develop a CHP portfolio under an ESCO / energy-as-a-service model

No-CAPEX for end customers

ČEZ Energo finances assets and provides full operations, dispatching, and long-term maintenance

TEDOM's role

Main technology & engineering partner, supplier of CHP units, engineering solutions, and long-term service support

Virtual power plant (VPP)

Fleet aggregated into a virtual power plant (VPP) operated by ČEZ Energo to optimize electricity sales and grid services



173
cogeneration units nationwide

137 MWe
installed capacity (electric)

289 MWt
installed capacity (thermal)

Example of successful strategic partnership

Coventry Building Society Arena

Client

World-class West Midlands event venue, aiming to reduce operating costs and meet sustainability goals.

Solution

Fully funded on-site solution, no upfront investment: reliable, low-cost, low-carbon electricity and heat.

Long-term impact

Now in its fifth year: consistent savings and carbon reductions without interruption.

Future potential

Scalable: can be upgraded with solar panels, battery storage or EV infrastructure.



Installed in **2020**
fully funded low-carbon solution

Over **1,982,000 kWh**
of electricity generated

More than **2,973,000 kWh**
of recovered heat energy

~5,000,000 kWh
total useful energy delivered

1,196,574 kg
CO_2 reduction to date

Over **£400,000**
estimated savings to date

Delivering sustainable energy savings at a major UK venue

Source: EuroSite Power case study

Qantas Airlines 12 MW BOO project in Australia - Sydney

Technology	Fuel	Power
3x Quanto 4000	**Natural gas**	**12.3 MW + 23 MW of cooling**





Highlights

TEDOM financed and delivered a turnkey trigeneration plant for the Qantas Jet Base in Sydney.

The assets are owned and operated by TEDOM.

EUR 14.8 million total investment	**11.7 MW** electrical capacity	**12.3 MW** thermal capacity	**23 MW** cooling capacity

Turnkey trigeneration plant, financed, owned and operated by TEDOM

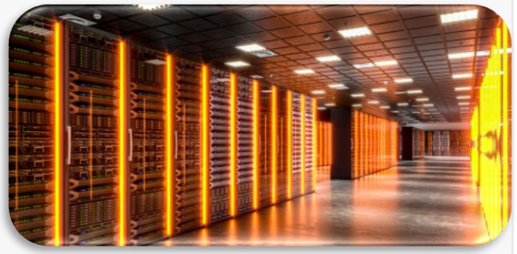
Why are Data Centers Turning to Trigeneration?

Trigeneration combines on-site power generation, heat recovery and cooling production in a single highly efficient energy solution.

- **Higher stability and security**
  – Reliable on-site power generation
- **Greater flexibility, scalability, and network robustness** – When uptime matters, generation must be on-site
- **Lower operating costs and operational efficiency**
  – Power, cooling and efficiency. **All in one**
- **Ideal solution for locations with limited grid capacity or for TIER III, IV, and V data centers**
  – Future-proof energy for next-generation data centres

Data Center reference

TELECOM ITALIA



System components include:

- **Trigeneration unit 1.2 MWe**
- **Flue gas exchanger - water** with an output of **627 kWt** .
- **Single-stage absorption chiller** with an output of **1,003 kWf** .
- Noise Level **55dB(A)** at 10m

Outputs:

Electricity generation of 1,200 kWe,
Recovered Thermal energy,
Chilled water **at 7–12 °C** for effective data center cooling.

This solution represents the ideal combination of performance, energy savings, perfectly tailored to the needs of modern data centers.

Thank you

Tomáš Szczotka
Business Development Manager

Phone: +420 774 175 186
Email: tomas.szczotka@tedom.com

TEDOM
YANMAR GROUP

tedom.com / tedomenergie.cz / tedom-engines.com

Interní dokument