



Technologies

A range of energy efficient products showcasing innovative engineering, available exclusively from TES

Product Range

Through a process of continuous sourcing of innovative and efficient products TES has access to some of the world's leading efficiency technologies.

To enhance the TES Energy Centre range, TES now has exclusive access to the Schmitt Enertec suite of compact cogeneration packaged plants which arrive on a customer's site fully enclosed in a metal frame. Schmitt Enertec have operated in Germany for over 30 years, and their cogeneration plants are based on Mercedes engine technology. They range in capacity from 80kW to 2 MW, with applications in commercial office buildings, hospitals, hotels, shopping centres, factories, waste water treatment plants and aquatic centres.

Currently, Schmitt Enertec compact cogeneration plants are installed in over 20 countries around the world, with a combined installed electrical generation capacity of over 300 MW in electrical demand.

For more details of the Schmitt Enertec range of products, please see the accompanying brochures and the dynamic link to the Schmitt Enertec website.

To address the cooling needs of the TES Energy Centres, we also have exclusive access to the Voltas range of absorption chillers. These chillers utilize the waste heat from the generation engines or turbines to produce chilled water through the XXX process. Absorption chillers can also be directly fuelled by natural gas when there is no need for electricity to be produced.

For more details of the Voltas range of chillers, please contact TES today.

TES provides solutions, which leverage savings across the spectrum of efficiency technologies.

There is no "silver bullet" technology or product when it comes to recommending energy and water reduction solutions for a client. That's why at TES we take a neutral view as to what technologies may be most suitable, factoring in the integration of multiple technologies to achieve the best energy and water efficiency improvement.

Each facility is different, and so each project we implement is different, even if we use a number of common technologies as part of our technical solution.

We address opportunities in the areas of Lighting, Heating Ventilation and air Conditioning (HVAC), Water Management, Building Management Systems (BMS), Cogeneration, Hot Water Systems, Refrigeration Systems etc.

The difference is in how we apply these technologies, and optimize their use through smart integration and waste minimization.





TES Energy Centre

The TES Energy Centre refers to a package of equipment specifically designed and installed by TES to generate electricity, hot and/or chilled water, and perhaps steam.

The TES Energy Centre incorporates cogeneration or trigeneration applications, which simply means the production of two or more outputs (electricity, hot water, chilled water, steam) from the combustion of a single fuel. In the case of TES Energy Centres, the fuel will typically be either natural gas or bio gas (produced from organic fuel stocks such as sugar cane waste (bagasse), rice husks, macadamia nuts, methane gas from waste water treatment plants etc).

TES Energy Centres can meet a client's electrical demand ranging from 80kW to 20MW, using a range of reciprocating gas engines or gas turbines, combined in various configurations to achieve the optimum balance of meeting both electrical and thermal (heating and cooling) needs in the most cost effective manner.

TES has the specialist in-house engineering expertise to evaluate the most cost effective and technically suitable Energy Centre to meet the clients' needs, and then to provide the turnkey service to design and install the TES Energy Centre.





Total Energy Solutions

If you would like to know more about getting involved with the TESJourney Partner Program please contact one of our offices listed below:

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