

ENGIE ON-SITE UTILITIES

Transition Your Industries
to Carbon Neutral

BROCHURE



Industrial decarbonization is essential for organizations looking to move toward a zero-carbon future

CHALLENGE

Although vital for the global economy, industries like steel, cement, aluminium, chemicals, agri-food and others pose significant challenges in reducing emissions. Industrial companies often grapple with uncertainty regarding the most effective technical approaches for immediate emission reduction. Decarbonizing these hard-to-abate sectors, where companies manage their own utilities on-site, presents a significant opportunity. One potential strategy for emission reduction is the recovery of waste heat. Heat generated during industrial processes can be repurposed for various useful applications, such as electricity generation or driving chemical reactions. However, much of this waste heat currently goes unused, being released into the environment through exhausts or effluents at different temperature levels. By recovering and utilizing this waste heat, significant reductions in primary fuel usage and emissions can be achieved. Moreover, the utilization of recovered waste heat could facilitate a smoother and more cost-effective energy transition. This repurposed heat can be utilized for industrial process heating, city grid heating or cooling, or converted into electricity, depending on local energy demand patterns and fuel and electricity prices.

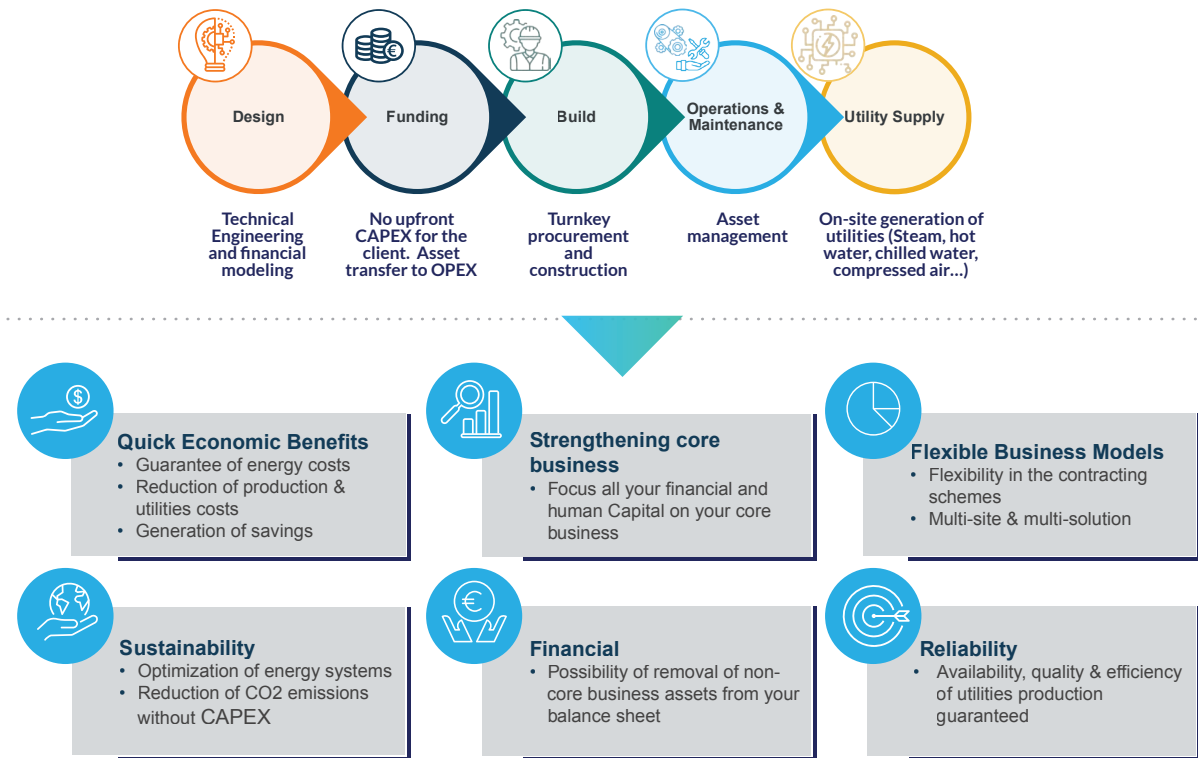
On-site Utilities: A Holistic Solution for Industrial Energy Needs

SOLUTION

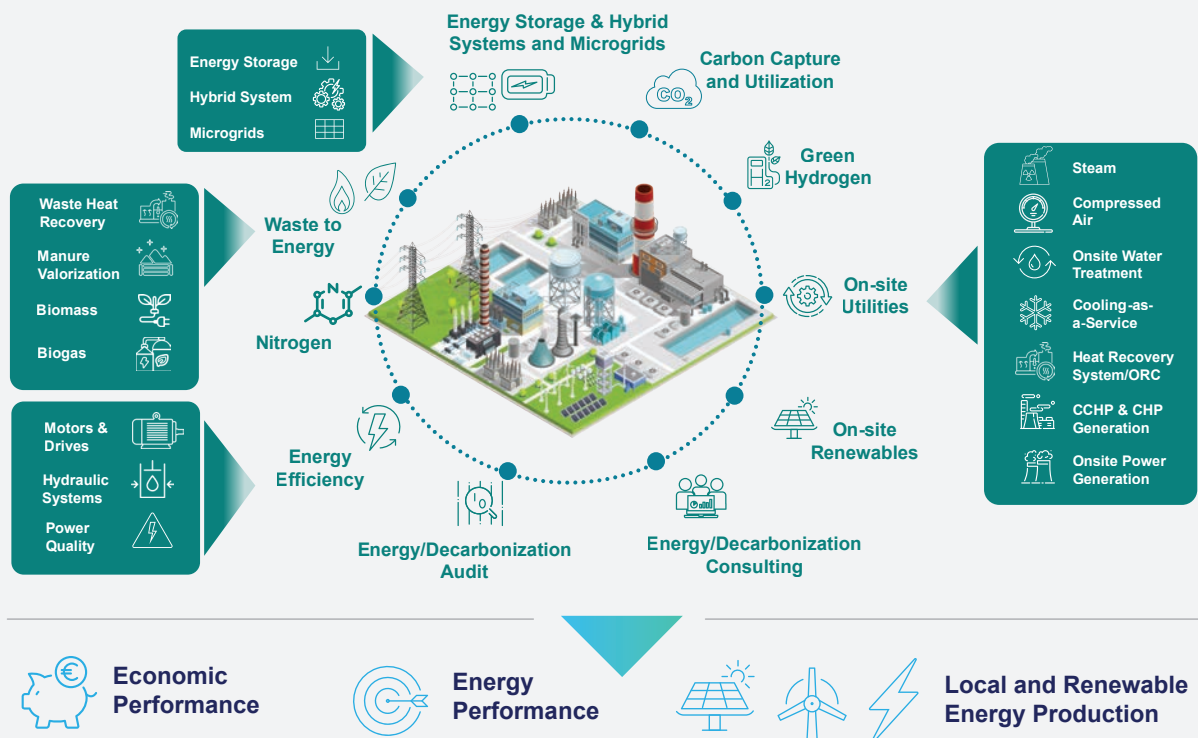
ENGIE's On-site Utilities solution addresses key challenges organizations face when looking to reduce their industrial energy consumption. The solution enables industrials or large manufacturing plants to deploy their own onsite efficient energy production and utility complex. This is an integrated energy production solution to implement decarbonization projects where ENGIE manages the design, build, finance, operation and maintenance to allow clients to meet their net zero goals.

Our payment structure is service-based throughout the contract's duration, eliminating the need for upfront capital expenditure or debt. ENGIE also offers performance guarantees, ensuring that clients receive tangible results and optimal performance tailored to their specific energy needs.

A holistic solution that delivers business value across the value chain



A Utility Management Solution with a Wide Range of Decarbonization Solutions



Transition your factories to net zero



HOW DID HOLCIM LEC UAE REDUCE THEIR CO2 EMISSIONS WITH ENGIE'S WASTE HEAT RECOVERY SYSTEM?

Download case study



Our client, Holcim LEC in UAE, a global leader in cement manufacturing had massive plant emissions from their cement factory site in the United Arab Emirates.

With ENGIE's On-site Utilities solution, Holcim LEC UAE reduced their CO2 emissions by 28% by implementing Waste Heat Recovery using the Organic Rankine Cycle technology, thereby enabling cost savings, greater efficiency and closer alignment with their commitment to sustainability goals.

Are you ready to lead energy transition through reduced energy consumption and more environmental friendly solutions?

Get in touch at info.esgcc@engie.com

ABOUT ON-SITE UTILITIES SOLUTION

On-site utilities solution is an integrated on-site energy production solution to implement decarbonization projects where ENGIE Solutions manages the design, build, finance, and O&M to allow clients to meet their decarbonization goals. Payments are service-based over the life of the contract, with no CAPEX or debt, with results and performance commitment. This is achieved by using cogeneration (CHP), trigeneration, biomass fired boiler, anaerobic digestion, heat pumps, electric boilers, heat recovery systems, chillers, and air-compressors.

<https://engiesolutions.me/our-solutions/on-site-utilities/>

ABOUT ENGIE

ENGIE, a global leader in low-carbon energy and services, is dedicated to propelling the world towards carbon neutrality. With a workforce of 96,000 and a commitment to reduced energy consumption, the company aligns economic success with positive impacts on people and the planet. Focused on gas, renewable energy, and services, ENGIE provides competitive, sustainable solutions. Locally, the company leverages its global expertise in technical services, energy efficiency, digitalization, and renewables across various infrastructures. ENGIE invests in countries, empowering local workforces, implementing smart technologies, and delivering financed, guaranteed energy-efficient projects.

Visit www.engiesolutions.me to know more.