

Buildings, factories, etc. "Energy Conservation and Energy Creation" Total Solution

TAISEI (THAILAND) CO., LTD.



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Service and Technologies

Taisei Corporation focuses on developing and implementing energy-saving technologies like ZEB (Zero Energy Building) and promotes renewable energy projects and hydrogen use. We also develop a diversified carbon neutrality business, including efficient EMS operations and innovative building materials for decarbonization. TAISEI (THAILAND) CO., LTD. will actively propose and implement these technologies in Thailand in cooperation with the Japan head office.

Sustainability

TAISEI (THAILAND) CO., LTD. will significantly contribute to decarbonizing not only urban office buildings but particularly factories through carbon neutral technologies in Thailand. We aim to enhance factory energy efficiency and reduce CO2 emissions by introducing energy-saving and renewable energy technologies. Thus, we support global sustainable industrial activities and reduce local environmental impact, promoting sustainability. Our strength is in total management combining multiple technologies.

Experience



Example of Energy-Saving in a New Factory: ZEF Zero Energy Factory No. 1

At the OKI Honjo Plant H1 building (completed in 2022), we have realized ZEF, which is the factory version of the ZEB index. "ZEF" is a new evaluation axis devised by Taisei Corporation. We have reduced energy consumption by 75% from the standard value (existing actual value), and the planned value is "Nearly ZEF".

ZEF: What is the Zero Energy Factory metric?

In particular, when calculating ZEB performance for factories, the absolute amount of energy consumed in factories is different from that of offices, so the evaluation target is limited to the lighting of general living rooms and warehouse areas, and there is a problem that areas related to production are not taken into account.

The ZEF devised by Taisei Corporation evaluates the air conditioning, ventilation, lighting, and elevators required for production, making it possible to evaluate and examine the reduction of energy consumption in factories more appropriately.



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