

Energy Saving Services

Features

Optimized energy services are offered to customers to reduce energy and costs.

- ◆ Engineering capabilities, cultivated in our domestic and overseas markets, are utilized to resolve energy issues of our customers.
- ◆ Consistent services that integrate a whole range of processes, from site survey to energy saving considerations, as well as from the proposal to the supply of energy, are offered.
- ◆ Fuel conversion, energy savings for boilers and industrial furnaces, as well as cogeneration systems, are provided with schemes that require no initial investment.

Basic Concept or Summary

Osaka Gas possesses energy and cost saving know-how, cultivated in the domestic and overseas markets, are utilized for total energy savings at factories and plants. A stable supply of energy is achieved overseas as well, by jointly implementing projects in collaboration with our partners in the respective countries.

1. Understanding current conditions
 - An understanding of a current situation, is based on the monthly energy consumption and equipment used
 - Issues are identified during walks through factories and plants
 - Measurements are taken on the equipment used to quantify energy savings
2. Fuel conversions and energy savings proposed
 - Fuel conversions and energy savings are proposed, based on our experience
 - An estimated cost for the facility
 - Energy services, including financing are proposed
 - Proposals that utilize subsidies from the Japanese Government are presented
3. Supplying energy
 - Schedules, with the energy providers of the respective countries, are adjusted
 - Laws and regulations relating to the supply of energy are verified
 - The dispatch of SVs from overseas vendors and domestic vendors in Japan are coordinated
 - Monitoring services supplied after supply of energy

1 Energy audit

Conduct a diagnosis on customers' equipment (furnaces, boilers, etc.) and analyze energy flows.



2 Energy consulting

Provide quantitative evaluation and propose efficiency improvement measures.



3 Engineering, procurement & construction

Design and produce reliable facilities that are best suited to customers' needs.



4 Financial consulting

Propose arrangements for customers' capital investment.



5 Fuel supply

Design natural gas receiving facilities (pipeline, LNG lorry, CNG lorry, etc.)



6 Energy monitoring and maintenance

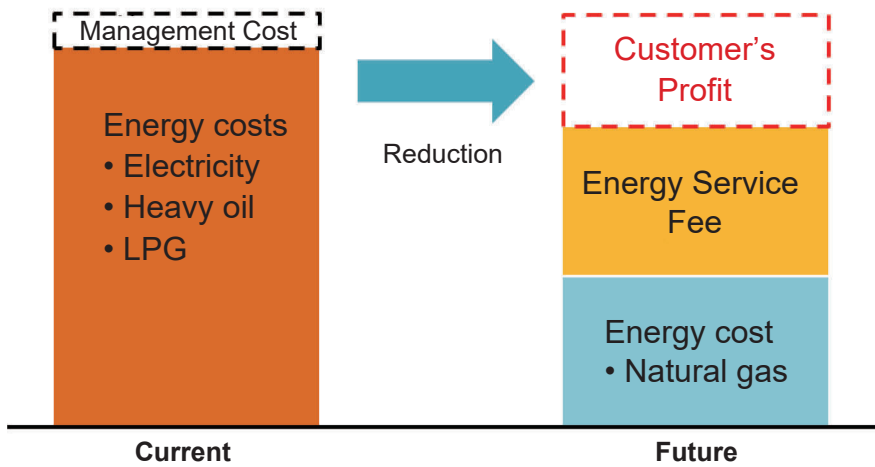
Verify the enhancement of energy efficiency and the reduction of energy cost and maintain the target level of efficiency.



[Outline of energy services]

Energy and CO₂ savings are achieved, at the same time as a reduction in energy costs.

The change of annual energy cost



We can achieve cost reduction from first year after agreement of energy service

[Contents]
 • Conversion fuel to NG
 • Installation/Modification for saving energy
 • Operating CHP

Installation in Practice or Schedule

Domestic Our track record of delivering energy services began in 2003, with 1,184 adopted implementations since then. (Current as of March 2020)

Overseas Since we started our business operations in Southeast Asia in 2013, we have accumulated a track record of delivering energy supply and energy services in the region. (Current as of July 2021)

- Singapore : 46 instances of natural gas supply
- Thailand : 25 instances of energy services and 15 instances of natural gas supply
- Indonesia : 12 instances of energy consultations
- Vietnam : 8 instances of natural gas supply

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