

## 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.)



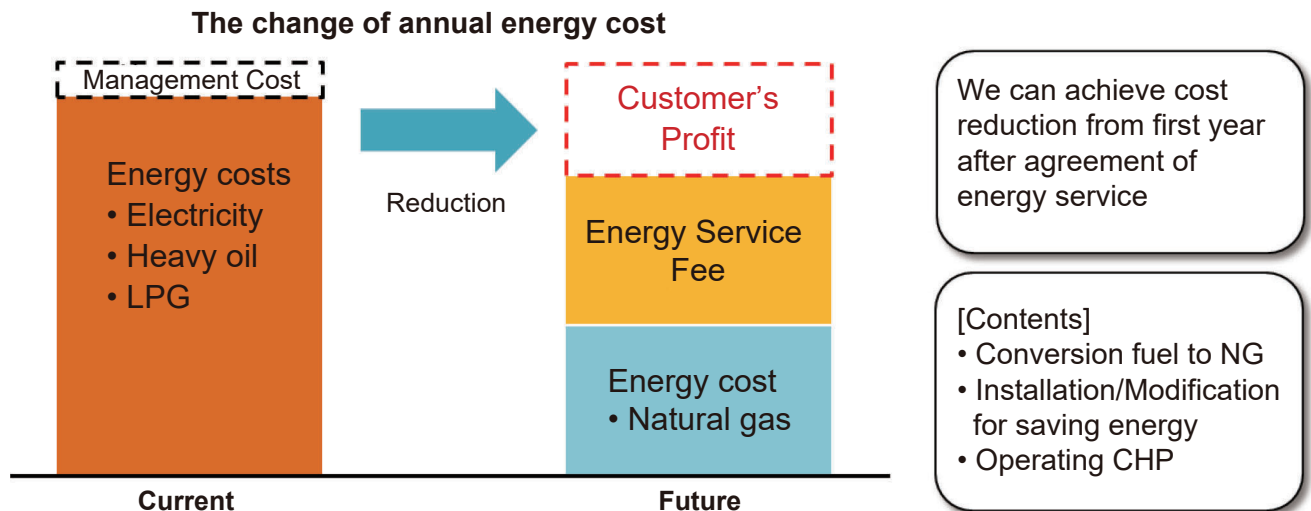
#### 6 Energy monitoring and maintenance

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 CO<sub>2</sub> savings are achieved, at the same time as a reduction in energy costs.



### 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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