

Suggests appropriate energy-efficiency measures of pumping facilities

Go Green with Pumps

Features

- We suggest the most suitable energy-efficiency measures (the Eco-Proposal) for pumping facilities using our high-efficiency standard pumps (the Eco-Pumps) (abundant experience in improving energy efficiency by 10% to 40% reduction in power consumption)
- Abundant experience in installing the Eco-Pumps (about 746 business have employed the Eco-Proposals from April 2011 to March 2015)
- "Go Green with Pumps" initiatives spread the message including the Eco-Proposals which pumps can achieve greater energy efficiency. The initiatives won the Energy Conservation Grand Prize in 2015 (the Minister of Economy, Trade and Industry Prize in the field of business model).

Overview

(Technical principles, actions, etc.)

■The reality of standard pumps (see Fig. 1)

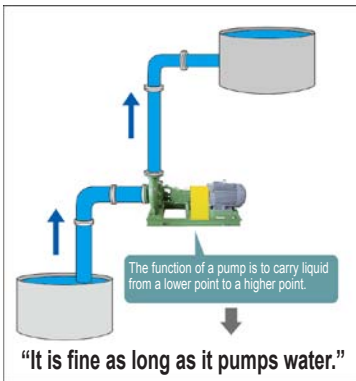
Pumps play a vital role in the process behind the scenes in modern society. However, particularly with standard pumps, little attention has traditionally been paid to energy efficiency.

■Pay attention to energy-efficiency → "Go Green with Pumps" (see Fig. 2)

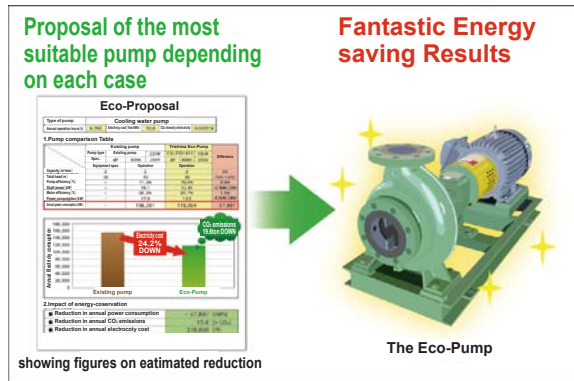
Torishima has developed higher efficiency standard pumps called "The Eco-Pumps" which applies the vast experience and knowledge of high technology used for our large-sized high-efficiency pumps. Along with providing the Eco-Pumps, we also promote the efficient use of energy by consulting with our customers regarding the most-suitable pumps for their facilities. We call this "Go Green with Pumps" initiatives, which realize outstanding energy saving of pumping facilities.

■Process of installing the Eco-Pumps (see Fig. 3)

1. Make sure to understand the customer's needs
2. Examine the existing pumps working at customer's facility
3. Eco-Proposal showing the power consumption and CO₂ emissions before and after installing the Eco-Pumps
4. On-site inspection if necessary
5. Install the Eco-Pumps
6. Report the comparison of energy savings before and after installation



(Fig. 1)



(Fig. 2)



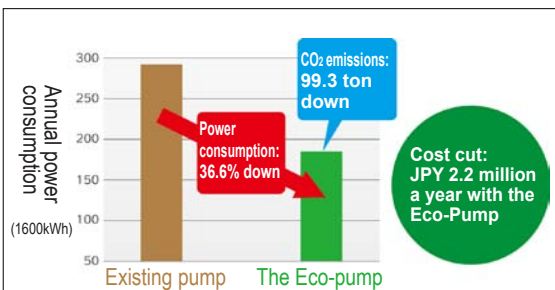
(Fig. 3)

Installation Record

- The Eco-Pumps are being used in various industries including beverage production companies, pharmaceutical companies, and automobile manufacturing plants, as well as public and commercial facilities such as hospitals and welfare facilities, amusement facilities, hotels, swimming pools and public baths. The Eco-Pumps have been installed to about 746 businesses from April 2011 to March 2015.
- The average reduction in annual power consumption in a plant is 15% based on the Eco-Proposals submitted from April 2011 to March 2015.

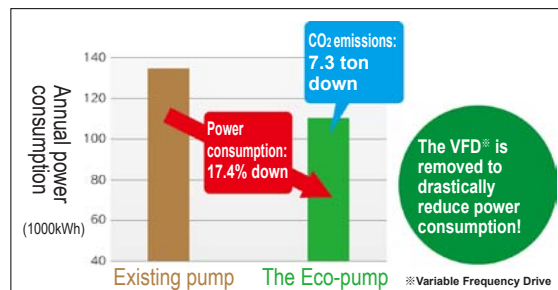
Effects

◎ Example of a beverage company



The energy-efficiency effect is demonstrated in the comparison of data before and after the installation!
The energy conservation effect can be estimated before installing the Eco-Pump. Actual effects can also be checked after the installation.

◎ Example of a materials manufacturer



The Eco-Pump can further improve energy efficiency when a system is operating with fixed-speed load rather than frequent load changes

Torishima Pump Mfg. Co., Ltd. Department of Industrial Management

1-1-8, Miyata-cho, Takatsuki-city, Osaka 569-8660, Japan

● TEL / +81-72-690-2307 ● FAX / +81-72-690-2335 ● E-Mail / ecopump@torishima.co.jp ● http://www.torishima.co.jp

※Note: This publication introduces examples of technologies and products believed useful towards solving environmental and energy issues. In no way does it constitute guarantees concerning their transfer or sale.

Applicable field
For cooling water circulation in various industries,
district heating/cooling system, water supply, etc.

Water

Energy saving/Energy recovery

ENERGY
Energy storage/Energy creation

New energy

Waste disposal/
Recycling/
Resource saving

Air

Soil

Other