

Company Profile

TAIYO EIECTRIC CO., LTD.



Established: 1943

- Started manufacturing of Generator for Marine Use.
- Started manufacturing of Diesel Gen. Set and Co-Gen. System for Industial Use since 1971.
- Since then,
 75 years History & Experience.

General

- Capital : ¥ 480,000,000.- (Approx. US\$ 4.36 mil.)
- **Employee** : 430 **Part timer : 87, Group company : 280
- Annual Turn Over: ¥ 13,640,000,000.- (Approx. US\$ 124 mil.)

XOctober 2017

Business Details

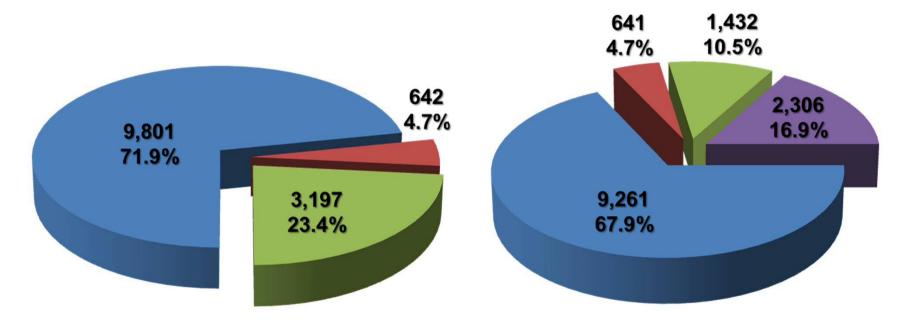


- 2017

- Unit : Mil. Yen

Annual Turnover

Production



- Merchant Marine
- Fishery
- Industry

- RotatingMachinery
- FAN
- ControlEquip
- Other

TAIYO ELECTRIC CO.,LTD.

History (1/2)

- 1917: Inauguration.
- 1943: Established as TAIYO Electric Co., Ltd. (capital: ¥1,000,000.-).
- 1944: Started Gifu factory.
- 1962: Started Isesaki (Controller) factory.
- 1966: Gifu factory was certified by JG (1st certificate in the trade).
- 1967: Isesaki (Controller) factory was certified by JG.
- 1968: Started Gumma (Generating) factory.
- 1970 : Gumma (Generating) factory was certified by JG.
- 1974: Started Odai Iron Works Co., Ltd. (Taiwan)
- 1976: Started Gifu Hashima factory.
- 1980 : Started KTE Co., Ltd. (Korea)
- 1982: Started Mihara sales branch.
 - QA of Gifu factory was certified by LRS class society.
- 1984: Started TAIYO Electronics Co., Ltd.
- 1985 : QA of Gifu factory was certified by ABS class society.
- 1992: Started System factory in Gumma plants.
- 1993 : Gifu factory acquired ISO-9001 certification (1st certificate in the trade).
- 1994: Exhibited to SEA-JAPAN94.
 - Gumma plants & Gifu factory was authorized for NK system.
 - QA of Gifu factory was certified by CR class society.
- 1995: Started Kani factory.



History (2/2)

- 1996: Started Technical & Administration center of Gumma plants.
- 1998: Started R&D center of Gifu factory.
- 1999: Gumma plants acquired ISO-9001 certification.
- 2000: Started Administration center & modified Kani factory.
- 2001: QA of Gumma plants was certified by LRS class society.
- 2002: QA of Gumma plants was certified by CR class society.
 - QA of Gifu factory was certified by MSA of DNV class society.
- 2004: QA of Generating factory (Gumma) was certified by KR class society.
- 2005: Modified Controller (Isesaki) factory.
- 2006: Started Yamatoku factory in Gifu plants.
- 2009: Gumma plants acquired ISO-14001 certification.
 - Gifu factory acquired ISO-14001 certification.
 - QA of Gifu factory was certified by KR class society.
- 2011: TAIYO Foundry Co., Ltd. moved to Kagamigahara city.
 - 500kW Diesel G set for electric power supply was installed in Gifu.
- 2012: M/V AMANOKAWA (LIB electric propulsion ship) got ship of the year 2012.
- 2013: 500kW load test facility was started in Gumma plants.
- 2015: Started Singapore branch.
- 2016: 390kW Gas G set for electric power supply was installed in Gumma.
- 2017: TAIYO's website was renewed.



TAIYO Group

- > **Domestic**
- · TAIYO Techno Sales Co., Ltd.

Sales of Elelctric Machinery & Technical services

· Sanshin Senpaku Dengu Co., Ltd.

Production & Sales of Electric Apparatus

· TAIYO Denko Co., Ltd.

Machining & Winding

· TAIYO Foundry Co., Ltd.

Production & Sales of Casting parts

· Hashima Electric Co., Ltd.

Machining

International · KTE Co., Ltd. (Korea)

Production & Sales of Electric Panels



GIFU Plants

- Gifu Factory
- Gifu Hashima Factory
- Kani Factory

GUMMA Plants

- Generating No.1 Factory
- Generating No.2 Factory
- Controller Factory





Gifu Plants

Gifu Factory: Large Capacity Generator, Motor & System Products



Gifu Hashima Factory : Ventilation Fan



Kani Factory

Small Generator Set & Winding of Marine Generator





Gumma Plants

Generating No.1 Factory: Small Capacity Generator & Motor



Controller Factory: Switchboard & Console



Generating No.2 Factory

Diesel Generator Set , Medium Capacity Generator & Motor





Marine Products

Electric Equipments

- 1. Generator
- 2. Motor
- 3. Switchboard (MSB)
- 4. Control Console (ECC)
- 5. Fan

System Products

- 1. Various Motor Speed Control System (VVVF)
- 2. Various Power Generating System (Thyristor or PWM)
- 3. Power Management System (PMS)
 - & Alarm Monitoring System (AMS)



TAIYO Marine Products





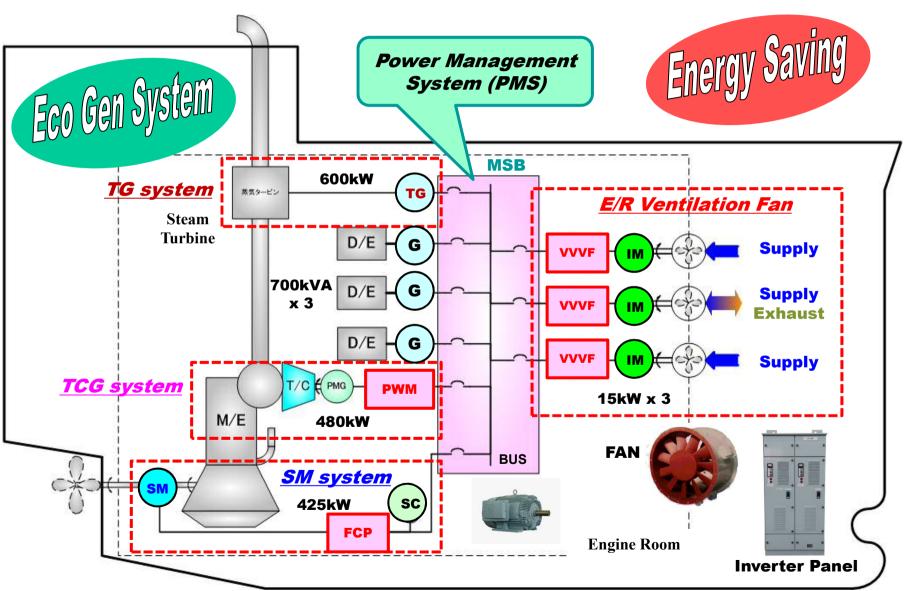


Reference 1: JMU sno. 186 - 209,000dwt BC (1/8)



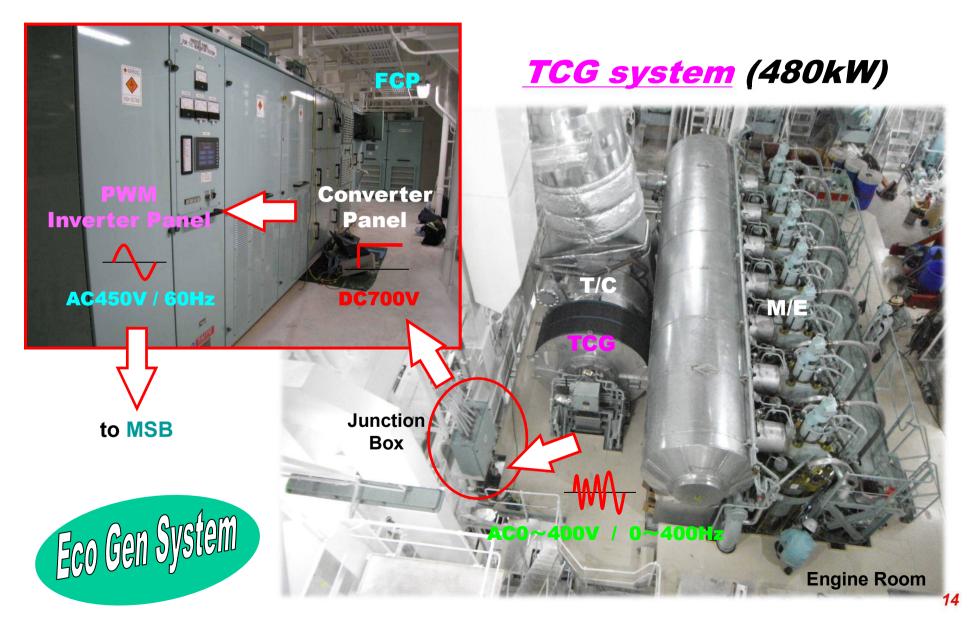


Reference 1: JMU sno. 186 - 209,000dwt BC (2/8)





Reference 1: JMU sno. 186 - 209,000dwt BC (3/8)





Reference 1: JMU sno.186 - 209,000dwt BC (4/8)







Reference 1: JMU sno. 186 - 209,000dwt BC (5/8)



TG system (600kW)

Steam Turbine



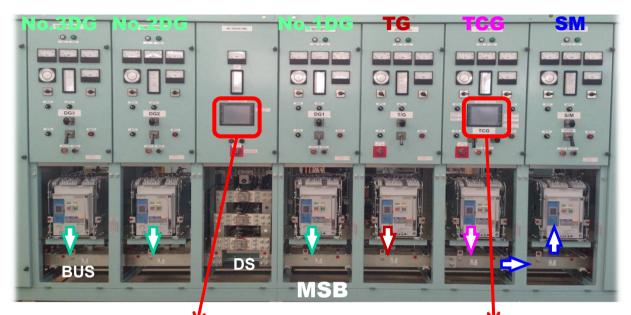
3pcs Diesel







Reference 1: JMU sno. 186 - 209,000 dwt BC (6/8)



<u>Power Management System</u> (PMS)

TCG

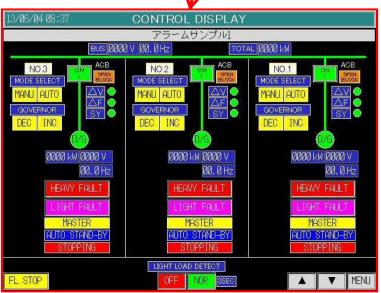
*Calculated Gen ability power based on M/E load

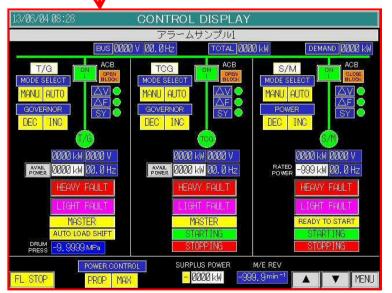
TG

*Calculated Gen ability power based on steam press

SM

*Para run condition of TCG & T/G
*Supplied surplus power
from TCG &T/G





LCD Monitor

for Gen. Control (Example)



Industrial Products

Electric Equipment

- 1. High Voltage Generator AC3,300V, 6,600V, 11,000V, 13,800V class
- 2. Low Voltage Generator AC200V, 400V class
- 3. Various Switchboard & Control Panel

System Products

- 1. Gas Engine Co-Generation System
- 2. Diesel Engine Co-Generation System
- 3. MG Set for Shower Power Supply System
- 4. Diesel Engine Generator Set for Transfer Crane
- 5. Small Generator Set





System Products (2/5)

> Diesel Engine Co-Generation System

Parallel Running System (DG 15sets)







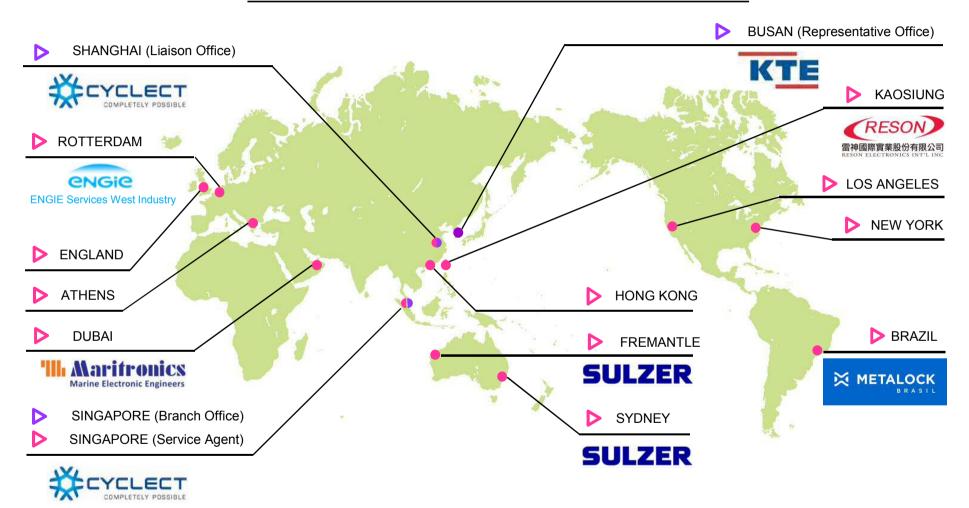






5. Service Network

World-Wide Service Network



TAIYO Branch, Representative or Liaison Office

TAIYO Service Agent



TAIYO ELECTRIC CO., LTD.



No.16-8, 1-Chome, Uchi-Kanda, Chiyoda-Ku, Tokyo 101-0047 Japan

Phone: +81 3 3293 3061

FAX: +81 3 3292 7012

URL : http://www.taiyo-electric.co.jp