



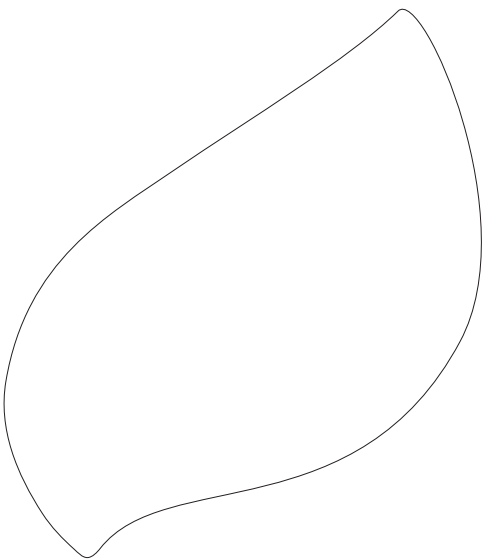
TESS Engineering

Generate, Conserve, Connect
+E Performer



TESS Engineering Co., Ltd. <https://www.tess-eng.co.jp>

- [Head Office] Shin-Osaka Prime Tower, 6-1-1 Nishi-Nakajima, Yodogawa-ku, Osaka-shi, Osaka 532-0011 Japan
Tel: +81-6-6308-2703; Fax: +81-6-6308-0948
- [Tokyo Branch] Yaesu First Financial Building, 1-3-7 Yaesu, Chuo-ku, Tokyo 103-0028 Japan
Tel: +81-3-6202-0561; Fax: +81-3-6202-0610
- [Nagoya Branch] Miyuki Building, 3-20-27 Nishiki, Naka-ku, Nagoya-shi, Aichi 460-0003 Japan
Tel: +81-52-220-6151; Fax: +81-52-220-6155
- [Chugoku Branch] Gogin Hiroshima Building, 1-23 Tate-machi, Naka-ku, Hiroshima-shi, Hiroshima 730-0032 Japan
Tel: +81-82-544-2725; Fax: +81-82-544-2724
- [Kyushu Branch] Hakata FD Business Center, 2-1 Tsunaba-machi, Hakata-ku, Fukuoka-shi, Fukuoka 812-0024 Japan
Tel: +81-92-291-3211; Fax: +81-92-291-3250
- [Tohoku Branch] Miyagino Center Building, 4-5-22 Tsutsujigaoka, Miyagino-ku, Sendai-shi, Miyagi 983-0852 Japan
Tel: +81-22-292-7050; Fax: +81-22-292-7051



TOTAL
ENERGY
SAVING &
SOLUTION

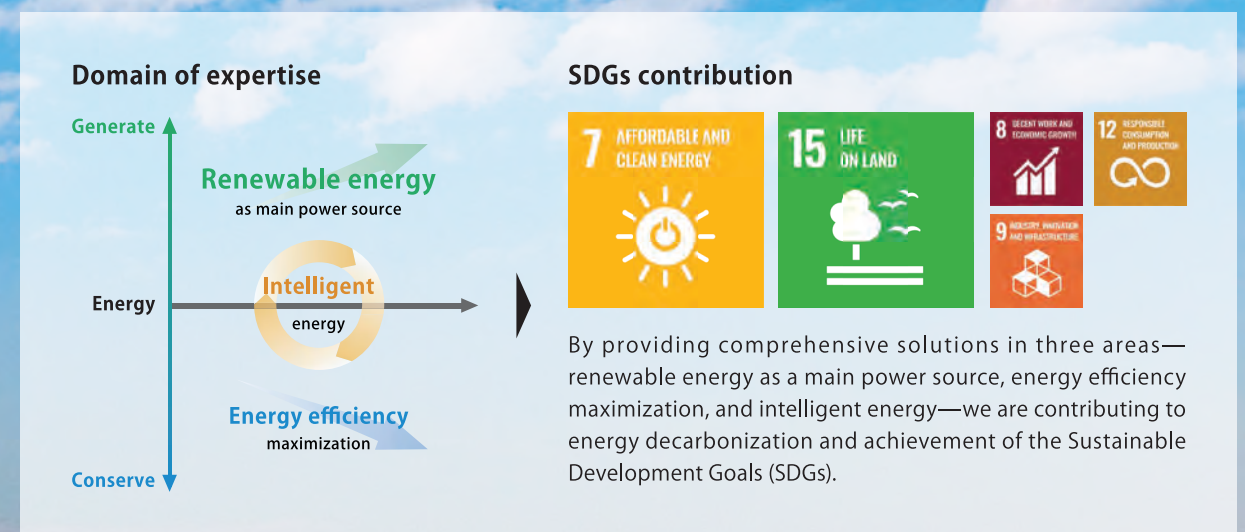
TOTAL ENERGY SAVING & SOLUTION

We provide comprehensive solutions to
our customers' energy challenges.
Our mission is in our name: Total Energy Saving & Solution.

Customer Focus, Customer Satisfaction is our philosophy

To every energy problem our customers face we bring a reliable technology portfolio
spanning 1,000+ environmental and energy efficiency projects,
and a trusted follow-up system staffed by experienced field service engineers.
And we are always striving to do better for our customers.

Contributing to energy decarbonization and the SDGs



Solutions

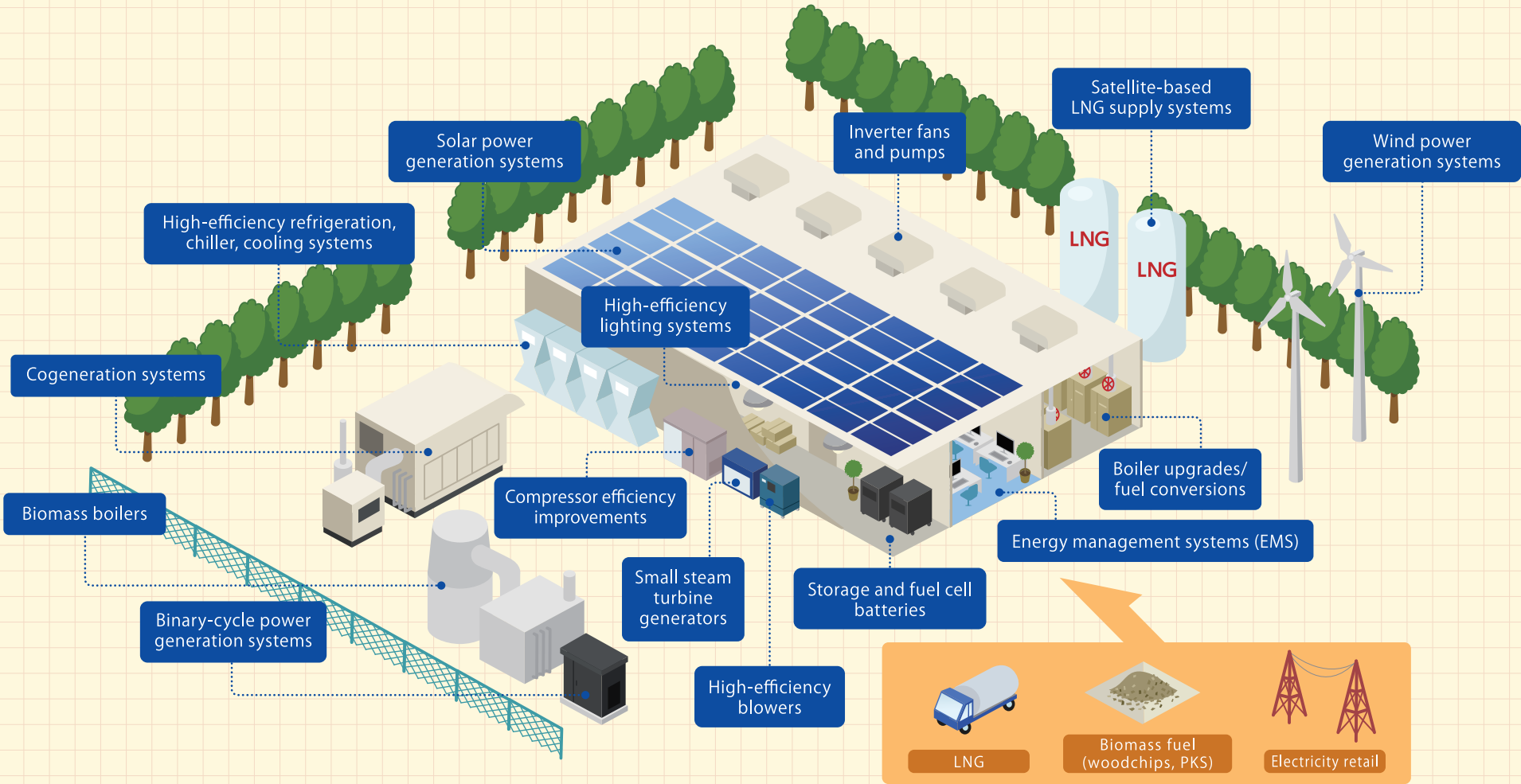
One-stop shop for energy decarbonization initiatives

TESS Engineering is one of a handful of engineering companies in Japan specializing in cost-cutting environmental and energy conservation solutions. As the world faces increasing urgency to decarbonize, we offer a host of solutions to meet our customers' increasingly complex energy challenges and needs, from energy efficiency to renewable energy.

Our portfolio in numbers

Solar power generation systems 685 units delivered (approx. 1,020MW)	On-site PPAs 17 contracts concluded (approx. 18.8 MW)	Cogeneration systems (includes in-house power generation) 1,455 units delivered (approx. 1,328 MW)
Fuel conversions (LNG satellites) 81 satellites delivered (7,660 kL)	24-hr monitoring systems 928 units delivered	

*As of Jan.31,2024



Cogeneration systems



These systems increase efficiency by using waste heat from gas-fueled power generation for heating and cooling, hot water and steam.

Solar power generation systems



We provide comprehensive support for the long-term stable operation of your solar power generation system, from design and construction to operation and maintenance. Additionally, we offer proposals for the installation of solar power generation systems on the roofs of factories and offices, utilizing the "Onsite Power Purchase Agreement (PPA)" method to supply renewable electricity.

Complete utility design



We offer design proposals for environmental and energy conservation solutions that incorporate all available green technologies, from factory and facility utility systems, high-efficiency lighting, HVAC and compressors to renewable energy.

Operation and maintenance(O&M)



We provide operation and maintenance services for cogeneration systems, photovoltaic power generation systems, and other equipment used as energy sources for factories and offices.

Electricity retailing



As a retail electricity provider, we supply electricity. We offer customized proposals aligned with customer preferences, such as market-linked options and CO₂-free menus in line with RE100.

Fuel conversion



We help customers shift to cleaner fuels such as natural gas. Sites in locations without gas pipeline infrastructure can install an LNG satellite.

Biomass power generation systems



Boiler systems that use recovered resources can slash fuel costs and CO₂ emissions. Biomass is gaining popularity as an effective cost-reduction strategy amid surging oil prices.

Grid and industrial energy storage systems



By harnessing electricity generated during the day through solar power systems and similar technologies, it becomes possible to store and utilize it during nighttime or power outages, enabling efficient utilization of electricity.

24-hour remote monitoring/EMS



We achieve stable operation of facilities through a 24-hour monitoring system. Additionally, we support optimal energy management by introducing an EMS equipped with functions for measuring, visualizing, and controlling various information related to operations.

Energy Resource Aggregation Business(ERAB)



We support optimal power trading by leveraging our demand-supply management capabilities, including solar power generation forecasts, storage battery recharge/discharge, and demand response.

Portfolio highlights

Cogeneration systems



Tsurumi Paper Co., Ltd.
Cogeneration system
Generation capacity: 1,660 kW
Steam output: 5,150 kg/h



Kashima Doryoku K.K.
Cogeneration system
Generation capacity: 5,750 kW × 2 units
Flue gas steam boilers: 2.9 t/h × 2 units

Solar power generation systems



GLP Japan Inc.
(GLP Zama Solar Power Plant)
Generation capacity: 2,250.50 kW
(Yingli Solar 250 W × 9,002 panels)
Module type: polycrystalline



THK Rhythm Co., Ltd.
Generation capacity: 1,829.52 kW
(Trina Solar 495 W × 3,696 panels)
Module type: monocrystalline
*On-site PPA



IMURAYA GROUP CO., LTD. (Anotsu FACTORY)
Generation capacity: 668.16kW
(Hanwha Q cells 580W × 1,152 panels)
Module type: monocrystalline
*On-site PPA(Combined with battery storage)
Large battery storage
Capacity: 1,000 kWh class(Huawei output, 300kW)

Fuel conversions



Meiji Co., Ltd.
LNG satellite facility
Storage capacity: 100 kL
Steam-heated vaporizer: 400 kg/h × 1
Low-temperature water-heated vaporizer: 500 kg/h × 1



Asahi Soft Drinks Co., Ltd.
Fuel conversion
Once-through boiler: 2.5 t/h × 15
Once-through boiler: 1 t/h × 1 (relocated)

Other projects



Osaka Prefecture Bloom Energy Japan Ltd.
Fuel cell batteries
Generation capacity: 1,200 kW
(200 kW × 6 systems)

Corporate History



- 1979

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May

Hanwa Nessui Ind. Co., Ltd. (predecessor company) established
- 1992

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Jan.

Company name changed to TESS Engineering Co., Ltd.
- 1999

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Nov.

24-Hour Operation Monitoring Center opens (now ICT Solutions Center)
- 2000

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July

Company acquires environmental management system ISO 14001 certification
- 2006

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Feb.

Company launches O&M business with contract for 70 MW gas-fired cogeneration power plant
- 2009

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May

Company registered as issuer of green power certificates
- 2010

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Feb.

Company files with METI as specified-scale electricity utility (currently electricity retailer)
- 2011

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Company focuses on installation of on-site power generation facilities for factories and operating sites to address power supply shortages in wake of 2011 earthquake and tsunami
- 2012

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EPC orders for solar and biomass power plants increase following start of Japan’s feed-in tariff (FIT) scheme for renewables
- 2012

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Mar.

Intelligent Solar Systems Co., Ltd. established
- 2013

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June

TESS Tokushima-Anan Solar Power Station begins operation, becoming first of several company-owned power plants across Japan
- 2014

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Dec.

Company acquires quality management system ISO 9001 certification and information security management system ISO 27001 certification
- 2015

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Nov.

Company registered as electricity retailer
- 2017

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July

Toshihiro Takasaki becomes President & Chief Executive Officer
- 2018

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Apr.

Company shifts to holding company structure, with TESS Holdings Co., Ltd. as parent company
- 2018

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Oct.

PT PTEC Research and Development established to conduct research and development in biomass fuel manufacturing
- 2020

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Mar.

PT International Green Energy established to supply biomass fuel
- 2020

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Aug.

VT Utilities Services K.K. established through joint venture with Veolia Japan K.K.
- 2021

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Feb.

Combined generation capacity of renewable energy power plants owned by TESS Group tops 200 MW
- 2021

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Apr.

TESS Holdings lists on Tokyo Stock Exchange First Section (currently Prime Market)

Corporate Profile

Name	TESS Engineering Co., Ltd.	
Capital	100 million yen	
President & Chief Executive Officer	Toshihiro Takasaki	
Business description	Site assessment, design, procurement, and construction for installing cogeneration systems and other environmental and energy conservation systems; operation and maintenance management support using 24-hour monitoring and energy management systems; energy supply services; electricity production and retailing; on-site PPAs	
Shareholders	TESS Holdings Co., Ltd. (100%), TSE Prime Market (securities code: 5074)	
Group companies and Investments	Kyoritsu Engineering Co., Ltd. TESS Asset Management LLC T&M Solar LLC Awaji-Sano Solar Power LLC Kochi-Muroto Solar Power LLC PT PTEC RESEARCH AND DEVELOPMENT Prime Solar 2 LLC INTERNATIONAL GREEN ENERGY PTE. LTD. Prime Solar 3 LLC Imari Green Power Co., Ltd. Intelligent Solar System Co., Ltd. VT Utilities Services K.K. Fukuoka-Miyako Solar Power LLC Prime Solar LLC Energy and Partners Co., Ltd. Solar Energy Create LLC Kirishima-Manzen Geothermal Energy LLC Chiba-Katori Solar Power LLC Ibaraki-Ushiku Solar Power LLC PTEC SINGAPORE PTE. LTD. PT INTERNATIONAL GREEN ENERGY Kumamoto Nishiki Green Power LLC Gunma Tanigawadake Hydropower LLC Mie Enewood Co., Ltd. TOLLCUX INVESTMENTS LIMITED	

Base

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