About GE

GE (NYSE: GE) imagines things others don’t, builds things others can’t and delivers outcomes that make the world work better. GE brings together the physical and digital worlds in ways no other company can. In its labs and factories and on the ground with customers, GE is inventing the next industrial era to move, power, build and cure the world.

GE in the Thailand

GE is one of Thailand’s largest foreign investors in the infrastructure business, which include energy, aviation, healthcare, and transportation. We are committed to providing solutions that will help improve living standards across the country, and to bring continuous growth as we take on new, emerging challenges.

GE has been present in Thailand since 1900 when it began selling light bulbs. With more than 400 employees spread around the country and its’ head office located at Capital Tower on Bangkok’s Wireless Road, the company continues to grow its business in Thailand.

At a Glance

Historical Footprint
1900

Number of Employees
450+

Major Locations
- Corporate HQ in Bangkok
- 12 sites including Rayong, Sattahip, Songkhla, Ratchaburi

GE works on things that matter to Thailand

Healthcare
GE Healthcare provides transformational medical technologies and services that are shaping a new age in patient care. Playing a vital role in the healthcare industry in Thailand, GE has more than 2,500 units of diagnostic imaging medical equipment installed in 600 Thai hospitals such as Siriraj Hospital, King Chulalongkorn Memorial Hospital, Maharaj Nakorn Chiang Mai Hospital, Bangkok Khon Kaen Hospital, Bangkok Chiang Mai Hospital, Samitivej Chonburi Hospital and Suranaree University of Technology Hospital since 1984.

Aviation
GE is the world’s leading producer of large and small engines for commercial, military, business and general aircraft, as well as avionics, electric power and mechanical systems.
• The national flag carrier, Thai Airways International has logged more than 5,166 million miles flown from more than 350 GE engines during the past 40 years. GE engines are used on multiple aircraft; these engines set a standard for reliability and durability that has proven to be very valuable to the airline and its customer. Thai operates CF6-80C2 engines on fourteen Boeing 747-400 and also flies GE90 engines on eleven Boeing 777-300ER and CFM56-3 engines on five Boeing 737-400.

• In 2015, the legacy continues with a 12-year OnPoint solution agreement for the maintenance, repair and overhaul of GE90 engines powering 14 Boeing 777-300ER; while many of CFM engines power Thailand-based local carriers including ThaiAirAsia, Nok Air, and Thai Lion Air.

• As a product of Ecomagination, the GE90-115B—the world’s most powerful jet engine—helps the planes it powers to provide class-leading fuel efficiency per seat, while also producing the lowest noise* of any GE engine in service today. The GEnx engine, that powers the Boeing 787 and 747-8 aircraft, will offer 15 percent improved fuel efficiency compared to GE engine it replaces, which translates to 15 percent less CO2.

*on a thrust-equalized basis

**Transportation**

GE is a supplier to the railroad, marine, drilling, wind and mining industries. It provides cutting-edge freight and passenger locomotives, railway signaling and communications systems, information technology solutions, high-quality replacement parts and value added services.

• Since 1963, the State Railway of Thailand has been connecting Thailand with 88 GE locomotives. To date, 60 locomotives or more than 40% of SRT’s fleet are still transporting millions of Thais and tons of freights across adjacent countries like Malaysia.

**Oil & Gas**

GE positions itself as one of the world’s leading equipment and services’ providers in the oil and gas space. With unique capabilities across the entire value chain - from oil and gas drilling equipment and subsea systems, to turbomachinery solutions and downstream processing.

• GE Oil and Gas and PTT Group (Thailand’s State Enterprise for oil & gas and petrochemical) have played integral roles in the Thailand Oil & Gas industry during the past 30 years. With PTT’s subsidiary company, PTTEP, GE has an installed base of five centrifugal compressors at the two major oil field arteries in Thailand, namely Greater Bongkot North and Greater Bongkot South, contributing to Thailand’s industries and economies during the last three decades.

• PTT Utility relies on a 13-year contractual service agreement (CSA) to ensure its power plant in Rayong province runs optimally. The CSA with GE includes guarantees on power output efficiency and reliability for gas turbines generating more than 300 MW of power, which is enough electricity for more than 15 petrochemical plants.

• Thaioil Power’s Sriracha cogeneration plant has the lowest level of NOx emissions for any power generation site in Thailand. This was achieved using GE’s Dry Low NOx (DLN) combustion technology, which reduces NOx emissions equivalent to 10 parts per million (ppm) or 67,500 kgs per year. DLN also uses less steam, freeing up steam energy to be used in oil refinery processes.
Power and Water

With a broad array of power generation and energy delivery technologies, GE works in all areas of the energy industry including renewable resources such as wind and solar; biogas and other alternative fuels; and coal, oil, natural gas and nuclear energy.

- Today, there are more than 100 GE gas turbines in operation across Thailand. In fact, 30% of electricity generated (or 8,000 MW) in the country are from GE's gas turbines. GE continues to support customers with solutions to bring down carbon emissions and improved KNOx levels for better and cleaner environment.
- GE operates and provides maintenance services under a long-term contract with Ratchaburi Electricity Generating Co., Ltd. for two power plants in Thailand – Tri Energy in Rathcaburi, west of Bangkok and Siam Power Generation PLC. (SIPCO) in Rayong southeast of Bangkok, with the capacity of producing 700 MW and 160 MW, respectively.
- GE supported Thailand's leading state-owned power utility and largest power producer, Electricity Generating Authority of Thailand (EGAT), with the upgrade of four GE 9F gas turbines for its two power plants in North Bangkok in 2014. Using GE's Dry Low NOx (DLN) 2.6+ combustion hardware and OpFlex™ AutoTune optimization software, the uprated gas turbines are able to reliably run on a wider range of natural gas compositions including gas from both western and eastern Thailand. This gives EGAT better operational and fuel flexibility for its power plants, providing the country with more secure power generation capacity in the event of future gas supply shortages, and significantly reducing emissions to improve local air quality.
- In 2014, GE signed a 12-year contractual service agreement with Thailand’s Ratchaburi World Cogeneration Company, Limited (RWC) for the planned maintenance of four GE's LM6000-PD aeroderivative gas turbines. Under this agreement, RWC will be able to increase reliability and performance and to reduce the maintenance and fuel costs of its gas turbines. As a Small Power Producer (SSP), RWC has a contract to supply power to Thailand's national grid for 25 years and to supply remaining electricity, approximately 10 percent of installed capacity, and steam to its direct users located in the Ratchaburi Industrial Estate.
- Also in 2014, GE signed the Turbine Supply Agreement (TSA) and the Full Service Agreement (FSA) for Watabak wind power project with Wind Energy Holdings, the leading developer and operator of wind energy installations in Thailand and South East Asia. GE will install 30 units of GE2.5-120 at 120m hub height with installed power capacity of 60 MW. The Watabak project is located in Watabak District, Chaiyaphum Province Thailand, and it is approximately 250 km northeast of Bangkok.
- Since 2005, the team from GE Water Process & Technologies in Thailand has been working with 40 industrial customers namely PTTGC, IRPC, SCG Cement, Siam City Power, among others, to create a better environment. To date, the team has saved 7 million cubic of water and reduced 4.9 million cubic of waste water per year, reduced SOx/NOx level to 40,000 tons and solid waste by 37,000 tons per year. As a result, our customers were able to generate a total of $85 million in savings per year during 2005-2014.

Lighting

GE Lighting specializes in lighting solutions around the world, helping advance new technologies such as fluorescents and light-emitting diodes (LEDs) that operate with more efficiency, less cost and less environmental impact than ever before. It has credited itself by lighting some of the world's most
recognized landmarks and places such as Olympic and World Cup Stadiums, London’s Tower and Golden Gate Bridges, among others.

- As Thailand’s energy consumption increases by an average of 3-4% every year, the Electricity Generating Authority of Thailand (EGAT) has been promoting LED lighting systems, aiming to lower overall energy cost by 50%. Several projects are in progress in installing new LED technologies in commercial buildings, retail centers and hotels.

**Energy Management**
Offering a full range of electrical capabilities, our global teams design industry leading technology to improve the transmission, distribution and conversion of electricity, and to help provide safe, efficient and reliable electrical power.

- Since 2013, GE Power Conversion has helped in powering about 60% of the Steam Turbine Generators for Small Power Plant (SPP) projects in Thailand. In particular, the Power Conversion team has supported key customers such as Gulf and Thai Oil to achieve cost savings and energy efficiency with their 4-pole generator design.

**We value partnerships**

**Partner for Talent and Leadership Development**
- In the last 30 years, more than 200 of GE’s customers have undergone Crotonville programs such as Leadership for Customers (LFC); Leadership, Innovation and Strategy (LIS); and Global Customers Summit (GCS) which cover the development of leadership skills in business, government, and civil society.
- In 2014, GE entered into a long-term collaborative agreement with PTT Group focusing on business growth, and skills and people development. To date, there are more than 100 PTT Group’s employees who have undergone various training programs such as Crotonville’s Leadership Innovation & Strategy courses and technical skills training by GE Oil & Gas University.

**We invest in people**

**Employee Training:** Globally, GE invests $1 billion each year on training and education, making us the world’s best company for leaders in 2015. GE offers numerous development, training and leadership programs to its employees across the region. These opportunities include our Commercial Leadership Program, Financial Management Program, GE Engineering Management Program, internships for undergraduate and graduate students, and technical and soft skill training for businesses personnel.

**GE Women’s Network:** Created to accelerate the advancement of over 100,000 women working at GE by sharing information, best practices, education, and experience, the Women’s Network hub in Thailand has been organizing activities each year to strengthen this mission. These activities include seminars such as Fund Management, Self-Protection against Crime, First Aid Readiness, Self-Branding, Cooking, Breast Cancer Screening, Getting ready for AEC, Leadership Coaching, and etc. Additionally, CSR initiatives have also been conducted such as cap knitting and bra cushioning for cancer patients.
as well as an auction to raise funds for a luncheon and outreach activities at several orphanages like the SOS Children’s Villages.

**GE Volunteers Network:** The Volunteers Council in Thailand has also been active in finding ways to serve the community through myriad of volunteer efforts. During the 2011 Great Floods in Thailand, six water treatment units equipped with GE’s reverse osmosis and filtration system were installed in the hardest hit areas of Ayutthaya Province. The units, which are capable of producing 500 liters of clean water per hour, give more than 10,000 households or 40,000 people access to drinkable water. Five other units are operational in Bangkok and other affected areas.

In 2014, about 295 GE Volunteers spent more than 1,000 volunteer hours impacting 2,800 people through various activities such as cleaning Thailand’s beaches, planting trees and mangrove plants, refurbishing libraries and playgrounds and sponsoring luncheon in upcountry schools, organizing blood drive to support the local Thai Red Cross chapter, teaching young kids in conjunction with Junior Achievements Thailand, participating in the Read for the Blind program, conducting donation drives and funds to several orphanages, and caring for the elderly.

**GE Foundation:** GE Foundation has been granting scholarship to Thai students in seven fields of study: Accounting, Computer Science, Chemistry, Economics, and Engineering (mechanical, chemical, environmental, computer, electrical, and telecommunications), Environment, and Mathematics/Physics. Each year, ten scholars are granted funding for their three-year studies. The program aims not only to support their education but also to develop them to become successful leaders in their chosen field. Today, there are over 160 students who have graduated with outstanding qualification; while some of them continue pursuing a Master's Degree or Ph.D. program.

In 2015, GE Volunteers will engage with 10th & 11th Grade students in the “JA Be Entrepreneurial” program to help them start on entrepreneurial ventures while still in high school. The program aims to enhance students’ learning of the following concepts and skills: business plan, competitive advantages, marketing, management, market needs, among others.

GE Foundation in partnership with Plan International will be providing training courses in empowering 90 vulnerable young women with basic life skills, health education, vocational and entrepreneurial skills. The aim is to prevent early marriage, unwanted pregnancies and human trafficking or cheap labor. The young women will include those from the hill tribes, and are stateless, aged between 15-25 years old in Mae Chan and Mae Fah Luang Districts of Chiang Rai Province which is the northern most province bordering with Laos and Myanmar.

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