



APR ENERGY

Health, Safety and the Environment
A commitment to excellence

HSE: Our top priority

At APR Energy, protecting our people and communities always is our number-one priority. We are committed to operate in a safe, ethical, and responsible manner, and carefully adhere to policies designed to ensure the health, safety, and well-being of our employees and those we serve.

Understanding the importance that our customers and communities place on health, safety and environment (HSE), APR Energy strives to provide power generation solutions that deliver world-class occupational health and safety performance, as well as advanced technology that meets stringent environmental requirements. Through our comprehensive range of operating procedures and processes, we have achieved a proven track record, minimizing risks inherent in our industry while helping customers to achieve their social responsibility goals.

“ In the industries we serve, a lot of attention is paid to worker safety and the impact that our customers’ operations have on the local environment. As a service provider delivering onsite power, we take great care to mitigate risks of an HSE event that could impact industrial operations or the local community. ”

Todd Rich,
*Director of Global Security
/ Health, Safety and Environment*



Creating a healthy, secure work environment

APR Energy is committed to creating a healthy and secure working environment for all personnel, while also ensuring the security of our physical assets. In terms of occupational health, each of our plant locations conducts regular training and refresher courses designed to raise awareness about potential health hazards and teach employees how to respond in the event of an incident. In addition, the HSE supervisor at each location conducts a site-specific audit to identify potential local hazards – such as the indigenous puff adder in Botswana, whose bite can be lethal. The HSE supervisor then implements procedures to mitigate the problem and ensure a rapid response, in the event an incident occurs.

Led by our corporate global security professionals, we also maintain practices, policies and procedures to mitigate the risk of potential security incidents. This includes contracting protection services from global security providers where warranted, as well as providing traveller assistance and establishing traveller protocols. We monitor security intelligence on a real-time basis and ensure that appropriate risk mitigation measures are in place pursuant to the corresponding risk climate.



Employees at each of our locations receive training on how to avoid and respond to potential worksite health hazards. Courses include fire prevention and response, first aid and CPR, and medium- and high-voltage training to ensure our employees are not injured with working with live electricity.



APR Energy's commitment to safety includes mandatory use of personal protective equipment, harnesses for above-ground work and confined-space entry training.

- The safety commitment at our plants covers 16 key functional areas:
- PLANT ACCESS
 - HEALTH, WELFARE AND FIRST AID
 - HSE PROGRAM, RECORDKEEPING AND PLANT SIGNAGE
 - GENERAL WORK ENVIRONMENT AND HOUSEKEEPING
 - PERSONAL PROTECTIVE EQUIPMENT
 - WORK AT HEIGHTS AND PORTABLE LADDERS
 - ELECTRICAL SAFETY
 - HAND AND ELECTRIC POWER TOOLS
 - WELD/BRAZE/CUT AND COMPRESSED GAS CYLINDERS
 - CHEMICAL EXPOSURE AND COMMUNICATION
 - FIREFIGHTING AND FIRE-PREVENTION
 - MOTORIZED EQUIPMENT AND TRANSPORTATION
 - FUEL FILLING AND DELIVERY SYSTEMS
 - ENVIRONMENTAL CONTROLS AND WASTE MANAGEMENT
 - CONFINED-SPACE ENTRY
 - PERMIT TO WORK AND LOCK-OUT/TAG-OUT PROCEDURES

Making safety a behavior

We strive for an injury-free workplace, requiring 100-percent safe work practices and employee engagement. As part of these efforts, we provide regular, in-depth training, mentoring and job-specific education, supported by internal procedures, quality management systems, work instructions and protective equipment.

The HSE skills, practices and policies we teach our people become ingrained in their daily work practice, and often become behaviors carried with them throughout their career. The positive impact of our safety programs can be seen in our Lost Time Injury Frequency Rate, which was 1.6 over the past three years – lower than a typical range for industrial activities involving mining, power generation and construction activities.

Our commitment to health and safety extends people who visit our locations. After passing through a security checkpoint to enter a plant site, visitors receive a safety induction that includes an overview of the company's HSE policy and location-specific rules, and information about the required use of personal protective equipment, local safety protocols and restrictions, and emergency response and evacuation.



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APR Energy hires approximately 70 percent of the employees who install, operate and maintain our plants from the local community. Those employees receive regular training and skills development to ensure they support our commitment to HSE best practices each day on – and off – the job.

Engine	GE						CAT	
	TM2500+	TM2500+	TM2500+	TM2500+	TM2500+	TM2500+	3516B	G3516FC
Number of Units	2	2	2	2	2	2	35	34
Fuel	Natural Gas	Natural Gas	LPG	LPG	Diesel	Diesel	Diesel	Natural Gas
Water Injection	Yes	No	Yes	No	Yes	No	No	No
Metric Tons of NO _x	210	1,810	354	3,000	361	2,900	5,396	651
Metric Tons of VOC	77	23	75	23	25	23	84	491
Metric Tons of SO _x	13.17	13.17	13.27	12.64	2,045	2,045	2,113	1.07



Our fuel-flexible turbines enable us to further reduce emissions thanks to their ability to run on natural gas and other cleaner-burning fuels such as liquid petroleum gas (LPG), producing 38-94% less nitrogen oxide (depending upon use of water injection) than competing solutions using diesel reciprocating engines (see chart). In addition to lower emissions, the high power density of the turbines means they can generate the same amount of electricity on one-third of the land required for diesel engines, and they produce about 20 percent less noise. This combination of environmental advantages – and the turbines' ability to meet stringent local regulations – helped APR Energy win contracts to provide 72MW of emergency power for Tasmania's electric utility and 60MW for a mining company on the Pacific island of New Caledonia.

Maintaining environmental resources responsibly

APR Energy is dedicated to minimizing our environmental impact throughout all business activities we undertake around the globe.

With the youngest, most advanced fleet in the industry – including GE's new Generation 8 TM2500+ mobile gas turbine – we offer the most fuel-efficient technology available in the fast-track power market today. In addition to the cost savings that come from reduced fuel consumption by our state-of-the-art GE turbines and CAT® power modules, better fuel efficiency results in lower emissions. All of our equipment is designed to comply with emissions standards set forth by The World Bank, and we apply advanced mitigation techniques such as water injection where more stringent emissions levels are required for local markets. Our generating equipment is controlled by state-of-the-art electronic engine and generator management systems, which are automated to increase flexibility and decrease emissions levels.

At APR Energy, care for the environment extends to the operational practices and measures we take to protect our neighboring communities. These include the installation of fuel containment barriers as a safeguard in the event of a storage tank leak or a fuel spill, proper disposal of oil and other consumables, and recycling. Employees at our 15.5MW plant supporting the world's second-largest silver mine in Guatemala have implemented a waste management and conservation program. By consuming less paper, energy and water at the plant, employees have saved the equivalent of 31 trees as well as 12,800 gallons of water, 850 gallons of fuel and 7,500 kWh of energy annually. In doing so, the plant also reduced its carbon footprint by around 12.5 tons of carbon dioxide.

Even beyond the property lines of our plants, we look for ways to improve and protect the local environment. In the impoverished neighborhood near our Rocha Pinto plant in Angola, for example, we conduct a community clean-up program several times a year that includes the removal of hundreds of tons of garbage piling up along local roads.

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