

Energy Transfer is committed to protecting and preserving the environment and recognizes the need to protect natural resources as we conduct our business. We are committed to using natural resources and energy responsibly and efficiently, and to reducing emissions, releases, and waste throughout our operations.

Energy Transfer recognizes that operating thousands of miles of pipelines and related processing, storage and terminalling facilities across North America is a huge responsibility. Throughout our organization, from the top down, we are committed to maintaining and operating our assets safely and in an environmentally responsible manner in accordance with all applicable federal, state and local laws, rules, regulations and permit conditions. To protect the public, our employees and the environment, we invest hundreds of millions of dollars each year on integrity management, maintenance, reliability, safety and environmental programs. These programs are the primary drivers for reducing emissions and improving overall operational performance and efficiency.

Energy Transfer utilizes state-of-the-art technology for pipeline and storage well integrity and maintenance. We also employ personnel who constantly monitor pipeline and storage facility operating conditions on a 24-hour basis using advanced computer systems located in control centers. We conduct internal pipeline inspections at regular intervals by sending sophisticated, computerized equipment called “smart pigs” through our pipelines. We also use cathodic protection, a technology designed to protect pipelines and storage wells from external corrosion through the use of an electrostatic current. In addition, Energy Transfer operates a fleet of 10 aircraft that conduct aerial surveys of the pipeline right-of-ways on a daily basis. This commitment and investment coincides with our core business model of safely and efficiently transporting, storing, processing and terminalling hydrocarbon feed stocks and products with minimal losses.

Energy Transfer is also a member of the Pipeline Research Council International (PRCI), an industry research forum for technology developments and projects that assure the safe, reliable, environmentally sound, and cost-effective pipeline transportation of energy to consumers worldwide. Many of these research projects focus on development of new technologies that either directly or indirectly reduce emissions from pipeline operations.



Energy Transfer is committed to pursuing a zero-incident culture by continuously working to mitigate risk and eliminate incidents. By reducing these incidents, we concurrently reduce emissions throughout our operations.

Listed below are a few examples of Energy Transfer emission reduction projects that have naturally evolved from our commitment to “Do the Right Thing” and operate safely and responsibly:

- Utilization of pressurized tanks to minimize flash emissions on rich gas gathering systems. (VOC and methane reduction)

- Vapor recovery on condensate storage tanks. (VOC, NOx, CO, CO2, and methane reduction)
- Low emission packages and stacked catalysts on compression engines. (VOC, CO, CO2, and NOx reduction)
- Dual-drive compressors, which include a patented technology to allow the ability to switch from a natural gas engine to an electric motor, are often used in ozone non-attainment areas. (VOC, CO, CO2, and NOx reduction)
- Optical gas imaging leak surveys at compressor stations, gas processing plants, and terminals – regulatory and non-regulatory. (VOC and methane reduction)
- Energy efficiency audits on heaters and boilers. (NOx, CO, CO2 reduction)
- Fuel management systems on heaters and dehydration re-boilers. (NOx, CO, CO2 reduction)

### Renewable Energy Programs

We are always focused on operating our facilities safely, efficiently and responsibly. Energy Transfer relies on a diverse mix of energy sources, including solar and wind, to run its operations. While we mainly rely on electrical energy powered by natural gas, we do use a diversified mix of energy sources when it makes economic sense to do so. In fact, with our recent power purchase [agreement](#) for solar power in the Permian Basin of West Texas, the percentage of electrical energy we purchase that originates from solar and wind sources is now more than 20 percent on any given day.

We have approximately 18,000 solar panels located at pipeline metering stations across the country. The combined output from these solar panels generates approximately 4,000 kilowatts of electrical power per day, running the natural gas chromatographs, measurement, controls, and communications equipment. Generating power at the point of power consumption eliminates the inefficiencies of conventional electrical transmission and distribution systems. Landowners benefit by the limited infrastructure footprint needed for these facilities.





Energy Transfer owns and operates PEI Power (PEI), a gas-fired electric generating facility in Pennsylvania that is powered by landfill gas. The plant generates approximately 75 megawatts of electrical power per day. The total electricity generated offsets approximately 133,000 tons of CO<sub>2</sub> annually, or the equivalent of removing 18,000 cars from the road. PEI is able to generate enough electricity from landfill gas to power approximately 30,000 homes, making it one of the largest landfill gas renewable energy facilities in the United States. PEI partnered with the U.S. Environmental Protection Agency in their Landfill Methane Outreach Program, a voluntary public/private partnership encouraging cost effective landfill gas use as a way to mitigate global climate change.

**Disclaimer:**

*The information stated herein is intended as a guideline for compliance with all applicable Federal, State and Local environmental laws, regulations, standards, and permit conditions. This document was developed in accordance with Energy Transfer's philosophies. Nothing contained herein is intended to conflict with such Federal, State and Local environmental laws, regulations, standards, and permit conditions, which shall always take precedence over these guidelines.*