

Allergan Best Available Technology Evaluations

Allergan is constantly evaluating technologies for existing process controls and for future process controls. A search is done periodically of existing technologies to determine what is available. Then each technology is evaluated against a constant set of parameters including efficiency (effectiveness at reducing or solving the problem), feasibility (operations, maintenance, space, time, utilities, and permits), byproducts or wastes, and cost. The evaluation is done by sending specification criteria to identified vendors and requesting proposals to accomplish the given objectives.

Examples of technologies evaluated include volatile organic carbon air emissions control systems, wastewater control systems, monitoring systems, data management systems, specific pollutant control and capture systems, energy and water monitoring and control systems, new lighting technologies, building management system control systems, enhance throughput technologies, alternative processing technologies, and novel technologies such as microturbine cogeneration systems and solar PV systems.

Allergan developed a [novel treatment technology](#) for managing its isopropyl alcohol and heptane emissions. The technology was developed through a third-party developer and was scaled up in a lab environment. The technology was then placed full scale at the operating plant and is successfully operating today. The technology employed a scrubber system consisting of two towers that removed the emissions from the air stream to a water stream. The water stream was then passed through a four chambered biological continuous processing unit that converted the isopropyl alcohol and heptane to harmless byproducts. The removal efficiency was greater than 95%.

Allergan participated in a South Coast Air Quality Management District pilot study by accepting two Capstone 60 microturbines and installing a waste heat boiler in a small cogeneration system. The system was installed at our Irvine campus and continues to operate today.

Allergan installed a [solar photovoltaic system](#) at the Irvine California campus to test the feasibility of a larger installation at this and other locations. The system is operating today and generates approximately 25 kW of power at peak periods of sunlight and averages about 50,000 kWh of electrical power per year.

Allergan developed and implemented a database system for capturing occupational exposure monitoring data. The system provides a comprehensive view of the various monitoring taking place across the corporation. The historic and trending reports have become very useful management tools for tracking performance against monitoring objectives and effectiveness of the personnel protective systems in place to prevent over exposures.