

**Johnson & Johnson Pharmaceutical
Research & Development, L.L.C.**

La Jolla, California, USA

Cogeneration System for Electricity and Heat

his team initiated, designed and installed the first Johnson & Johnson cogeneration system that can self-produce electrical power for the entire site. Completed in 2003, the 2,200-kilowatt unit also is the first known system that allows a research facility to fully operate independent of the State of California's electrical grid. It consists of two 16-cylinder natural gas engines and features a state-of-the-art emissions control system. The engines' waste heat also reduces energy consumption and carbon dioxide emissions by powering both a 500-ton absorption chiller and building heat.

The company will save more than \$1 million per year in energy costs and reduce the site's carbon dioxide emissions by three million pounds through the cogeneration operations. The system also will enable the new building to become one of the first certified green buildings at Johnson & Johnson as established by the United States Green Building Council.

A cogeneration system is being installed as part of the Centocor and Johnson & Johnson Pharmaceutical Research & Development expansion in Spring House, Pennsylvania.

In recognition of accomplishments by the Cogeneration System for Electricity and Heat team at Johnson & Johnson Pharmaceutical Research & Development, L.L.C., award proceeds are being donated to I Love a Clean San Diego.