Because of our ongoing commitment to voluntarily reduce greenhouse gas (GHG) emissions, Pfizer is constantly seeking and adopting innovative alternatives to improve energy efficiency. We do this partly by investing in renewable energy and replicating cutting-edge solar power projects across the globe. These projects also make good business sense especially where we can reduce the cost of the projects through tax credits, rebates, subsidies and other incentives for the use of green energy.

LEVERAGING NETWORK EXPERTISE IN ITALY
The PGS Italian Regional Network has completed installing large solar panel operations at three Pfizer-owned facilities in Aprilia, Ascoli and Catania. The projects will bring a total cost savings of $1.44 million per year and an annual reduction of 1,340 tons of CO₂. Long-term, these projects will provide a hedge to energy cost increases.

The Italian network applied the learnings of a previous solar installation project in Louvain-la-Neuve, Belgium and shared expertise within the network to determine the best approach for each site:

- Aprilia – solar panel system installed on car shelters in the parking area; annual reduction of 300 tons of CO₂
- Ascoli – open roof system similar to that of LLN; annual reduction of 400 tons of CO₂
- Catania – system installed in an open field adjacent to the plant; annual reduction of 630 tons of CO₂

Partially financed by generous 20-year government grants, the Ascoli solar installation became operational in September 2011, Catania solar installation became operational in May 2012 and Aprilia’s is expected to go live in late 2012. By taking advantage of the solar power incentives in Italy these sites will increase the electricity generated by solar power in Pfizer’s network by over 300% when all three systems are complete.

HOT SHOWERS FROM SOLAR POWER IN IRELAND
Little Island, Ireland has installed 14 flat plate solar collectors that will supply up to 60% of the annual hot water demand to the canteen and bathroom areas. Though Ireland is not well known for its sunny climate, this solar array will supply an estimated 17,000 kWh thermal energy over the course of the year. This technology has displaced 17,000 kWh of fossil fuel usage and reduced Pfizer’s carbon foot print by over 3 metric tons of CO₂.

THERMO SOLAR PANELS FOR MEXICO WATER HEATING PROJECT
Each day in the Pharmaceutical Production Building at Pfizer Toluca, Mexico, there are 60 shower users consuming an average 3,000 liters of hot water. Toluca is using solar energy for water heating to minimize natural gas consumption and reduce greenhouse gas emissions.

The Thermo Solar Panels for Water Heating Project is a system that uses the sun’s thermal energy to transfer heat from the heat exchange fluid (glycol, a type of antifreeze) to the water. Hot water is stored in a tank and the temperature is raised to 55°C using a steam circuit. The solar panels provide 73% of the site’s total demand for hot water for showers. This system will eliminate 30 tons of CO₂ emissions per year.

SUMMARY
Pfizer is committed to continued solar power innovation. With each success, we share best practices among our sites worldwide.