



Loma Linda Fact Sheet

About Loma Linda Solar Power System:

The Loma Linda solar power system includes four independent systems generating energy for the Civic Center, Fire Station, Library and Senior Center. The 1600 solar panels installed on buildings and carports are inconspicuous but still visible to the general public.

The system's performance is monitored by the Fat Spaniel Technologies, Inc. web-based interface: PV2Web. By transforming raw energy data into a dynamic dashboard view, the interface provides live and historical views of the energy being produced, consumed and returned to the grid.

When the 267kW solar power system is fully operational, it will provide over 430 MWh of electricity annually—enough to power 70 homes.

The solar system reduces thousands of lbs of carbon dioxide emissions annually that would have been produced by coal or gas fired power plants. Gas emissions from coal or gas fired power plants can lead to smog, acid rain, haze and ultimately increase the risk of climate change.

About Alpha Energy:

The Alpha Group represents a global alliance of independent companies that share a common philosophy - create world-class powering solutions for communication, commercial, industrial and renewable energy markets. The Alpha Group products can be found in a diverse field of industries including broadband, telecom, wireless, WiMax, headend, distributed energy, utility, industrial, medical, security, parking, traffic control, access control and commdata.

Alpha Technologies Inc., a member of The Alpha Group, develops power conversion, protection and standby products for telecommunications and cable television industries, including custom, application-specific power solutions. In addition to product development, Alpha Technologies provides a comprehensive range of installation and maintenance services to support its global customer base.

Alpha Energy, a member of The Alpha Group, is a full-service engineering and project development company for the renewable energy power industry. One of the nation's leading developers of turnkey photovoltaic systems for commercial, residential, institutional and remote (off-grid) applications, Alpha Energy is recognized as a market innovator in packaging renewable energy technologies.

Alpha Technologies Inc. has provided a broad array of backup powering products for Loma Linda's FTTH network. It has future plans of providing indoor fiber power solutions to the network.

About Solar Power:

In 2003, worldwide production of solar cells increased by 32%. Between 2000 and 2004, the increase in worldwide solar energy capacity was an annualized 60%.

The amount of solar energy intercepted by the Earth every minute is greater than the amount of energy the world uses in fossil fuels each year.

Solar power is pollution free during use. Production end wastes and emissions are manageable using existing pollution controls.

Facilities can operate with little maintenance or intervention after initial setup.

About Loma Linda:

Loma Linda, Calif. was incorporated as a City in September 1970.

The current Mayor of Loma Linda is Robert H. Christman. The City Council members are Stan Brauer, Floyd Peterson, Robert Ziprick and Rhodes Rigsby.

The Loma Linda Connected Community Project links residents, businesses and government to a citywide fiber-optic network unlike any other in the United States

Loma Linda has wide recognition as an innovative Fiber-to-the-Premise model for municipalities. In fact, it was the first city in America to mandate a fiber and structured wiring building code for all new home and business developments.

On September 27, 2006, Governor Arnold Schwarzenegger signed Assembly Bill 32, which seeks to establish regulations, as well as market incentives, to reduce greenhouse gas emissions 25 percent by 2020.