solar park facts

energy facts

FACT: Residential appliances, including heating and cooling equipment and water heaters, consume 90% of all energy used in the U.S. residential sector.

FACT: Households use about one-fifth of the total energy consumed in the United States each year. About 60% of the energy is used in the form of electricity.

FACT: The wind in North Dakota alone could produce a third of America's electricity.

FACT: Traditional power sources are the largest contributor to ground-level air pollution, which can be responsible for hazy days in cities where the air is stagnant.

colorado energy facts

FACT: Most of Colorado relies exclusively on coal for its electric utilities. Very small amounts of hydroelectricity and natural gas supplement the rest of the power. The average price paid for petroleum products in Colorado ranks 6th in the United States, but the total energy expenditure per person is low, ranking 48th in the nation.

solar energy facts

FACT: There are 2 billion people in the world without access to electricity. It would be cheaper to install solar panels than to extend the electrical grid.

FACT: A one kilowatt PV system* each month prevents 150 lbs of coal from being mined, prevents 300 lbs of CO_2 from entering the atmosphere, keeps 105 gallons of water from being consumed and keeps NO and SO_2 from being released into the environment.

*in Colorado, or an equivalent system that produces 150 kWh per month

solar park facts

dfc solar park facts

The solar park is composed of 6,192 individual photovoltaic solar panes. Each pane is rated at 190 watts, model SL 190W, made by Evergreen Solar and utilize silicone wafers made with "String Ribbon" technology.

String Ribbon Technology combines the most attractive attributes of crystalline silicon and emerging thin films. It achieves the reliability, stability, conversion efficiency, and market acceptance of crystalline silicon without the inherent cost and waste of sawing solid silicon blocks.

In the String Ribbon technique, high temperature strings are pulled vertically through a shallow silicon melt, and the molten silicon spans and freezes between the strings to form a ribbon of silicon. Each pair of strings produces a single ribbon. The process is continuous: long strings are unwound from spools; the melt is replenished; and the silicon ribbon is cut into strips for further processing, without interrupting growth.

sustainability tips

How can you and your family reduce your carbon footprint on the earth?

Energy is not stored, but produced "on demand" meaning that when you turn off an energy-consuming item, you are actually causing a power plant to produce less energy.

Check out the ideas below:

1. Have your family use power strips so items that use energy while they're not in use, like televisions, stereos and computers, can be turned off completely with the flip of a switch.
2. Reuse grocery bags or switch to fabric bags when shopping.
3. Use washable and reusable containers to pack your kid's lunch instead of plastic or paper bags.
4. Check your bulbs! Do you use compact fluorescent light bulbs in your home? They last up to 10 times longer and save 75% more energy than a regular light bulb.