

# Eco-Friendly

Every day, more and more people are realizing that global warming is a serious problem that needs to be addressed. By going solar, you can reduce your carbon footprint and be proud to use clean electricity generated from the sun.

Mitsubishi Electric has made a commitment to protect the environment. We are proud to use 100% lead-free solder in the production of our photovoltaic (PV) modules. While traditional lead-solder modules use about 860 grams of lead, Mitsubishi Electric modules have 0\*grams of lead.

0g\*

\*Lead volume used in soldered parts, when using 24x40-cell type modules.

At our manufacturing facilities we recycle waste materials, use water conservation techniques, produce solder-free cells to save energy, and use recyclable steel pallets to transport our modules instead of wooden pallets that break and end up in landfills.

At Mitsubishi Electric, we understand that the key to protecting our planet while improving our lives is to use clean renewable energy, the way nature intended.



Photovoltaic Modules



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# LIFE

powered by the sun

# Invest in Your Future

When investing in your future, it's important to choose a solution from a company you trust. Mitsubishi Electric's photovoltaic systems are used throughout the world to bring clean, reliable energy to residences, businesses, power-generation plants, schools, areas without access to electricity, and more.

With over 34 years of experience in the solar electric industry, Mitsubishi Electric's solar panels utilize polycrystalline silicon technology and are known for their high reliability, high-efficiency, and low-environmental impact. All of our modules feature a 25-year limited warranty on power output and are designed to deliver you trouble-free electricity for years to come.



# Solar Makes Sen\$e

## By going solar, you can:

- Reduce your monthly electric bill
- Protect against rising electricity costs
- Increase the value of your home or business
- Protect the planet by generating clean energy
- Reduce dependence on foreign oil
- Add more clean energy to the grid

Limit the rising cost of electricity by taking control of your energy future and locking in fixed electricity rates from a solar electric system. In addition to the long-term financial savings, there are many local, state and federal incentives offered to make your solar system even more affordable. Here are a few financial benefits you can take advantage of today:

## Net Metering

Net Metering offsets your electric bill when you generate your own solar electricity, and you even get a credit from your power company that you can apply to future bills if you produce more electricity than you use.

## State Rebates

Receive a cash rebate for the amount of electricity you produce while rebates last.

## Federal Tax Credit

Take advantage of the Federal Tax Credit which puts money back into your pocket.

## Home Equity Loan

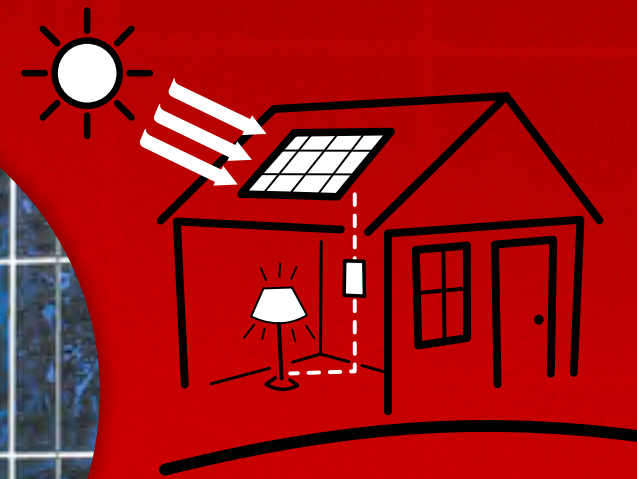
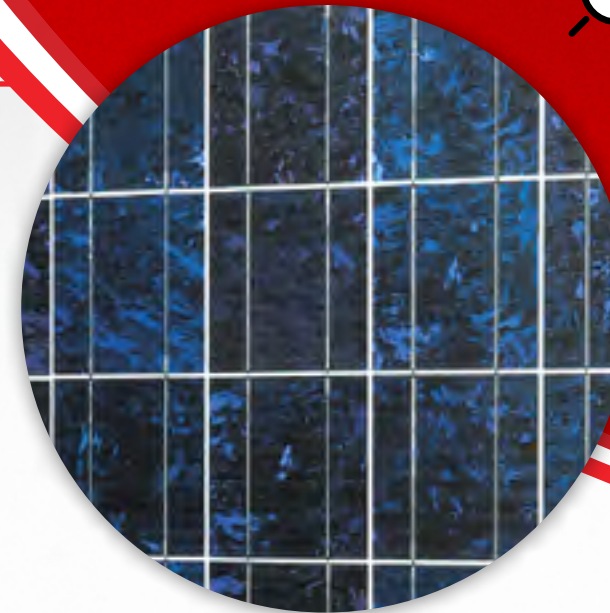
A solar loan can help you afford the up-front cost of a solar system, while the savings you get from a reduction in your electric bill will help pay back what you borrowed.

## Property Tax Exemption

Benefit from the increased value solar adds to your home without paying more property taxes. Solar electric systems are exempt from property taxes in California and many other solar-friendly states.

## Power Purchasing Agreement

For larger systems, flexible energy purchase solutions are available allowing your company to benefit from solar electricity without making an up-front investment.



# How Solar Electricity Works

Solar electricity occurs when light from the sun is converted into electricity. Solar panels are made from thin layers of silicon, a semiconductor material that absorbs the sun's rays and turns them into electricity. When photons from the sun hit the photovoltaic cells in a solar panel, electrons in the solar cell are knocked loose from their atom, allowing the electrons to flow freely. Solar cells force these electrons to flow in a certain direction along a wire, creating a current, which is then drawn off the cell to create electricity that powers your home or business.

If your power company offers net metering, and your PV system produces more electricity than you use, it is fed back into the grid and your electric meter actually spins backwards, reducing or eliminating your electric bill.

