

MECHANICS



Generators are the lifeblood source of energy for many missions. If power isn't available from the national power grid, generators may be the mission's only alternative. Even if a generator isn't their primary source of power, it generally is an important component of their electrical system because of inconsistent power supplied by the national grid. I-TEC has assisted many missions with a system design, installation, or repair of their generators.



RENEWABLE ENERGY

Modern technology is greatly expanding the possibilities of getting electricity into the remote regions of the world. I-TEC is expanding its focus into solar and wind turbine systems. In some cases, these systems will serve as the only source of power to remote regions, in other cases, it will be a primary or backup source of power for missions. We are in need of experts in this technology to assist in the installation of these systems.



I-TEC
23 Green Hollow Road
Montoursville, PA 17754

Phone: 570-433-0777
Toll Free: 877-427-8989
Fax: 570-433-0877
Email: contact@itec.org

Web: www.itec.org



Evangelical Council for Financial
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**International Technical
Electric & Construction**



2009 Work Team

**We purpose...
to advance the message that
Jesus Christ is the light of the
world by Powering Missions
Worldwide.**

I-TEC OFFICE & WAREHOUSE MONTOURSVILLE, PA



For many years I-TEC has provided volunteer high and low voltage services to missions, hospitals, schools, orphanages, and other organizations worldwide. Our services include: surveys for power quality and system improvements, new construction, and rebuild of existing systems as well as generator installations, maintenance, and repairs. We are expanding our services into new technology such as solar systems and wind turbines.

I-TEC also responds to natural disasters by providing temporary electricity with generators to emergency shelters and churches.

Our teams consist of volunteers of various backgrounds and skills.

Mission Statement

I-TEC is a non-denominational ministry utilizing volunteers to meet the technical needs of missionaries and not-for-profit organizations worldwide and to actively support local and international disaster relief.

Galatians 6:10

"Therefore, as we have opportunity, let us do good to all people, especially to those who belong to the family of believers"

LINEMEN

From the city of Reynosa, Mexico, to the Amazon jungle in Peru; from the plains of Honduras and Zambia to the remote mountains in Ecuador and Papua New

Guinea, I-TEC has worked with international organizations to address their electrical needs. Volunteer lineman from I-TEC have built new high voltage circuits, and upgraded existing systems, in over 40 countries. In addition to the benefit of our work to missions, many villages and local residents have benefitted from our extending national power systems into remote areas. A recent testimonial received from a lineman said, "God is teaching me to use my skills and abilities for His honor & glory." You can experience this same satisfaction by volunteering your skills.



ELECTRICIANS

Many missions contact I-TEC to install a new electrical infrastructure, or to replace or repair an existing system that is inadequate or damaged from years of neglect. I-TEC's network of qualified, volunteer electricians install overhead and underground low voltage systems. In addition, we repair and upgrade disconnects, panels, and internal circuits. We install systems that are powered by batteries and inverters; backed by standby generators. We are also capable of running Ethernet and telephone cabling. There is great need for these skills, and we are always looking for qualified volunteers, like YOU!

POWER QUALITY

Every day in the developing world, national utility "events" such as severe over and under voltage and extreme transients of over voltage due to lightning or other faults, destroy essential, sensitive, medical equipment. Each mission location has unique physical characteristics requiring customized solutions to mitigate electrical power "events." Power quality testing yields the necessary data to define options and equipment to eliminate these electrical disturbances. Testing includes earth ground testing, recording waveforms of voltage and current continuously for several days, and insulation resistance testing of electrical machines.

