

# IN-PIPE TURBINE GENERATOR (IPTG) US Patented

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INTRODUCING: Lightning Master's innovative In-Pipe Turbine Generator (IPTG) RELIABLE, 24/7, OFF-THE-GRID GREEN POWER FOR YOUR SCADA AND OTHER BATTERY CHARGING NEEDS.



Lightning Master's innovative IPTG system is designed to provide electricity at remote locations lacking commercial power. It generates power using the flow of natural gas through the pipeline without combustion of fossil fuels.

The IPTG is an electric generator contained in a two-foot section of 6" stainless steel pipe. It is installed using standard industry flanges. Feed piping may be flanged up or down to that size. The IPTG is tested to 2,040 PSI.

Magnetic flux generated by the rotation of magnets within the pipe produce electric current in coils mounted around the exterior of the pipe. The generator outputs through an umbilical cable to its control box that may be remotely mounted conveniently near the site batteries and SCADA system. The generator output may be monitored remotely through the existing site SCADA system or a dedicated monitoring system.

The IPTG overcomes the shortcomings of solar panels, thermal-electric generators, diesel generators, combustion turbine generators, and wind. It is less expensive, requires little maintenance, is resistant to damage and corrosion, and burns no fuel, reducing the site environmental footprint. The In-Pipe Turbine Generator is designed to generate power 24 hours a day and be maintenance-free for extended periods.

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