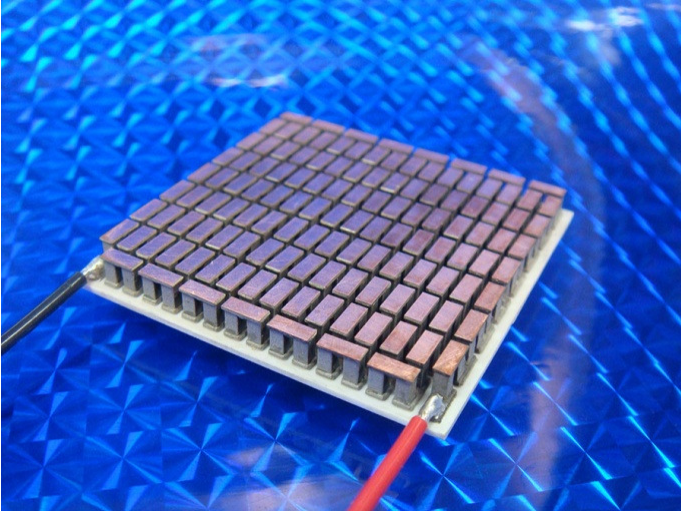


# TEG DEVELOPER'S KIT

## Producing Electricity from Environmental Heat

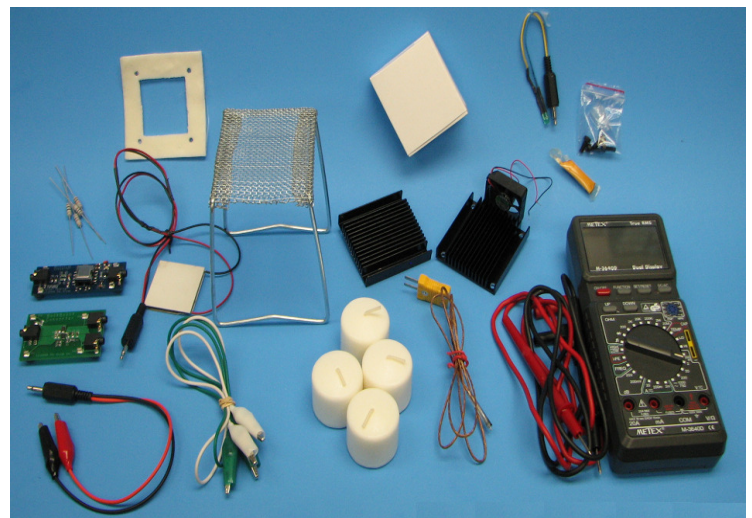


**Thermoelectricity** is a solid state energy conversion technology that is receiving great interest for energy harvesting applications. By converting the energy from temperature differentials into electricity, it is possible to maintain a battery charge or even to enable device operation without batteries, generating power as needed from the environment.

The TEG Developer's Kit provides the theoretical background needed for evaluating a candidate application. In addition to the large amount of science underpinning the technology, there is also a large amount of art. The TEG Developer's Kit highlights the issues, potential, and "tricks-of-the-trade" needed for a successful implementation. The components in the kit allow the construction of prototypes for many device applications with easily reconfigurable modular components.

Contents include a complete parts kit with

- High efficiency TE generation module
- Two types of electronic converters
- Thermocouple
- Multimeter with thermocouple input
- Stands, heat source, fan, heat sink, probes, clip leads and test loads
- A detailed manual with
  - a) Descriptions of thermoelectric theory;
  - b) Explanations of device construction;
  - c) Schematics for the conversion electronics needed to step up low input voltages; and
  - d) Experiments highlighting the issues and trade-offs confronting the developer.



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