

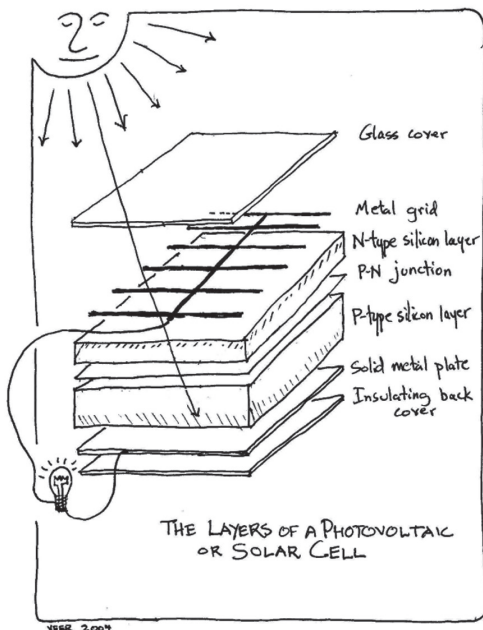


# PVs Clean & Green



**How do photovoltaics (PVs) work? What makes PVs clean, green and renewable?** Students will explore these two questions in a flexible curriculum that enables the teacher to select a series of learning experiences best suited for their students.

Students investigate hand-held PV cells and motors, measure their output, and make paper models of a PV cell to build concepts about how PVs work. Students compare PVs with other electricity sources, investigating advantages and disadvantages of each. If there is a PV system at the school, students tour the system and learn how it works and how it interconnects with the school's electric system and with the utility power grid, as well as measuring their PV system output daily to tabulate and graph the system's performance. Culminating activities can include an art project depicting energy use before, during, and after the fossil fuel era.



PVs Clean and Green includes basic science concepts about electricity for students that have not yet had those concepts or would benefit from review. Teachers are encouraged to begin with the in-class workshops *Electricity & the Environment* and *Renewables by Design* to enrich students' study of electricity and climate change and their understanding of energy efficiency and renewable energy as means to slow the rate of global warming.

VEEP offers professional development trainings for teachers and others teaching in formal and non-formal educational settings and lends kits of all necessary materials to run the unit.

**Contact us at [info@veep.org](mailto:info@veep.org) or 802-552-8450 for more information on bringing this curriculum into your classroom.**