

**FEMP 23**  
**Renewable Energy Technology Applications**  
**Photovoltaics and Daylighting Technology**

Solar energy technologies can help federal sites meet agency goals and legislative mandates, improve energy security, and reduce environmental impact while efficiently providing electricity at life-cycle cost effective rates.

The course covers sourcing and selecting cost-effective photovoltaic and daylighting technologies and common implementation considerations.

By taking this course, learners will be able to:

- Understand geographic/climate considerations, PV and daylighting technology capabilities and constraints, and evaluation of various technology options.
- Select the best PV and daylighting technologies for building and site needs, considering the latest best practices and technical considerations
- Identify PV system components, mounting and land and slope considerations, as well as daylighting components, daylight-responsive electric lighting, and interior design considerations
- Assess factors to integrate photovoltaic technology into larger energy systems.

**Instructor**

The instructor for this series is Andy Walker, PhD, Principal Engineer at the National Renewable Energy Laboratory. At NREL, Dr. Walker conducts engineering and economic analysis of renewable energy projects for FEMP and other non-governmental clients. Dr. Walker is an instructor and has authored more than 28 book chapters, journal articles, and papers. He holds a bachelor's of science degree, a master's of science degree, and a doctorate degree in mechanical engineering from Colorado State University and is a registered Professional Engineer in the State of Colorado.