

Renewable Energy & Energy Efficiency Resources, Tools, and Information


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Renewable Energy Web Resources

- **Incentives and Rules - Database of State Incentives for Renewables & Efficiency** - <http://www.dsireusa.org/>
- **PVWatts photovoltaic energy production calculator** - <http://pvwatts.nrel.gov/>
- **FEMP Renewable Energy Projects and Technologies:** <http://www.energy.gov/eere/femp/federal-renewable-energy-projects-and-technologies>
- **FEMP Training:** <https://www4.eere.energy.gov/femp/training/>
- **Levelized Cost of Energy Calculator:** <https://www.nrel.gov/analysis/tech-lcoe.html>
- **Distributed Generation Renewable Energy Estimate of Costs:** <https://www.nrel.gov/analysis/tech-lcoe-re-cost-est.html>
- **GIS Tools and Data:** <http://maps.nrel.gov/femp>
- **REopt: Renewable Energy Integration & Optimization:** <https://reopt.nrel.gov/>
- **On-Site PV Tech Spec:** <https://energy.gov/eere/femp/downloads/procurement-specifications-templates-site-solar-photovoltaic-use-developing>
- **Solar RFP Template:** <https://energy.gov/indianenergy/downloads/doe-office-indian-energy-solar-rfp-template-draft>

FEMP Training: Renewable Energy

Please visit the FEMP Training Website:
<https://www4.eere.energy.gov/femp/training/>

Trainings are certified for Continuing
Education Credits by:  IAOET
The Standard for Lifelong Learning

Available Trainings

- Combined Heat and Power: An Integrated Approach to Energy Resources
- Distributed-Scale Renewable Energy Projects: From Planning to Project Closeout
- Federal On-Site Renewable Power Purchase Agreements
- FEMP Large-Scale Renewable Energy Guide
- Introduction to Alternative Financing for Energy Efficiency and Renewable Technologies
- O&M Best Practices for Small-Scale PV Systems
- Procuring Solar Energy for Federal Facilities: Practical Guidance
- Renewable Energy (First Thursday Seminar)
- Renewable Energy Technology Applications: Biomass Technologies
- Renewable Energy Technology Applications: Geothermal Energy Technologies
- Renewable Energy Technology Applications: Hydropower and Ocean Technologies
- Renewable Energy Technology Applications: Integration of Renewable Energy Systems
- Renewable Energy Technology Applications: Photovoltaics and Daylighting Technology
- Renewable Energy Technology Applications: Solar Thermal and Concentrating Solar Power Technology
- Renewable Energy Technology Applications: Wind Energy Technology
- Renewable Power Purchases and Renewable Energy Certificates
- Selecting, Implementing, and Funding Photovoltaic Systems in Federal Facilities
- Strategic Planning for Renewable Energy Deployment: REopt (First Thursday Update)
- Utility Green Tariff Programs (First Thursday Update)
- Operations and Maintenance for Optimal Photovoltaic System Performance

Residential Energy Efficiency Online Resources

- **General Efficiency**
 - U.S. Department of Energy Residential Program Solution Center
<https://rpssc.energy.gov/tools-and-calculators>
 - Energy Star Guide to Energy-Efficient Heating and Cooling
https://www.energystar.gov/ia/partners/publications/pubdocs/HeatingCoolingGuide%20FINAL_9-4-09.pdf
 - American Council for an Energy-Efficient Economy
<https://aceee.org/sector/residential>
- **Lighting**
 - U.S. Department of Energy LED Lighting
<https://www.energy.gov/energysaver/save-electricity-and-fuel/lighting-choices-save-you-money/led-lighting>
 - Energy Star Choose a Light Guide
https://www.energystar.gov/products/choose_a_light
- **Appliances & Equipment**
 - Energy Star Products
<https://www.energystar.gov/products/>
 - U.S. Department of Energy Estimating Appliance Energy Use
<https://www.energy.gov/energysaver/estimating-appliance-and-home-electronic-energy-use>
- **Building Envelope**
 - U.S. Department of Energy Better Buildings
<https://betterbuildingsinitiative.energy.gov/alliance/technology-solution/building-envelope>

Residential Heat Pump Online Resources

- Air-Source Heat Pumps
 - U.S. Department of Energy
<https://www.energy.gov/energysaver/heat-pump-systems/air-source-heat-pumps>
<https://www.energy.gov/eere/femp/purchasing-energy-efficient-residential-air-source-heat-pumps>
 - Energy Star Air-Source Heat Pumps
https://www.energystar.gov/products/heating_cooling/heat_pumps_air_source
- Ground-Source Heat Pumps (a.k.a., Geothermal Heat Pumps)
 - U.S. Department of Energy
<https://www.energy.gov/energysaver/heat-and-cool/heat-pump-systems/geothermal-heat-pumps>
https://www.energy.gov/sites/prod/files/guide_to_geothermal_heat_pumps.pdf

Thank you

www.nrel.gov

NREL is a national laboratory of the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, operated by the Alliance for Sustainable Energy, LLC.

