Pacific Northwest
NATIONAL LABORATORY

ENERGY TECHNOLOGY INTEGRATION TEAM

Renewable Energy

The Energy Technology Integration Team is part of the Energy Policy & Economics Group at the Pacific Northwest National Laboratory (PNNL). Our team provides a range of capabilities – from initial concept to project implementation – to support renewable energy and resiliency project development. This brochure highlights the types of resilience assessments performed, projects developed, and key staff who support these efforts.

ASSESSMENTS AND PROJECT DEVELOPMENT SUPPORT

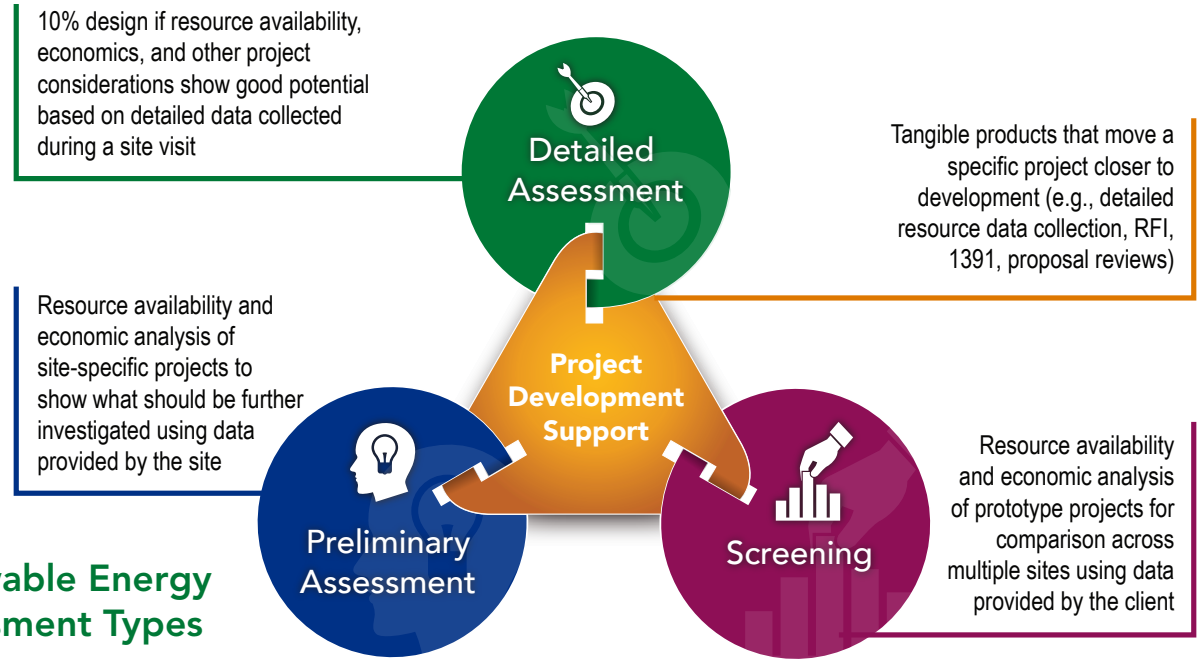
Renewable energy assessments enable agencies to make informed decisions on meeting renewable energy goals and mandates, and increasing resiliency by identifying and defining potential project options. Assessments can be stand-alone evaluations or incorporated into comprehensive energy and water evaluations, net zero energy assessments, or energy security assessments that include energy storage and microgrid solutions.

PNNL assessments range from desktop screenings to detailed onsite analyses of available resources, applicable technologies, project economics, energy rates, policy and regulatory issues, and stakeholder engagement. The renewable energy assessment types (below) provide a range of capabilities to support renewable energy project development, moving from initial concept to project implementation.

Examples of project development support include managing the installation of meteorological towers that collect site-specific wind data and developing appropriated funding request documents for building-integrated technologies, such as solar air heating.

PNNL's capabilities can support all organizations interested in pursuing renewable energy. Some of our current clients include the U.S. Air Force, the U.S. Army and Army Reserve, and other federal agencies through support of the Federal Energy Management Program.

Renewable Energy Assessment Types



OUR EXPERTISE COVERS ALL RENEWABLE ENERGY RESOURCES AND RELATED TECHNOLOGIES:

Electric

- Solar PV
- Wind
- Geothermal
- Biomass
- Waste-to-energy
- Hydro
- Ocean
- Landfill gas

Thermal

- Solar water heating
- Solar air heating
- Ground source heat pumps
- Biomass
- Waste-to-energy

Both

- Combined heat and power
- Energy storage
- Microgrids

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