The U.S. Department of Energy Office of Indian Energy Policy and Programs (DOE Office of Indian Energy) has developed a series of renewable energy project development and financing educational courses specifically for Tribes that:

- Provide a framework for tribal renewable energy project development and financing
- Set and manage project development expectations
- Identify decision points and the information needed to effectively make decisions
- Identify available tools for use in project development
- Provide examples of relevant projects.

Before developing a renewable energy project, it is critical that tribal leadership and staff understand the Tribe’s prioritized goals for renewable energy projects and have a vision and plan in place to minimize risks. The DOE Office of Indian Energy’s educational courses follow the project development cycle process shown here.
### Project Development Phases

<table>
<thead>
<tr>
<th>Project Potential</th>
<th>Project Options</th>
<th>Project Refinement</th>
<th>Project Implementation</th>
<th>Project Operations &amp; Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the potential for doing a project at a scale that meets my goals?</td>
<td>How do I interpret these options?</td>
<td>How do we get the specifics to our environment?</td>
<td>How do we build it?</td>
<td>Who will maintain it once it is built?</td>
</tr>
</tbody>
</table>

#### Data Collection and Opportunity Assessment
Determine whether the project is viable by evaluating:
- Possible sites for project
- Renewable energy resource data
- Tribal facility electric cost data, regulations, and interconnection requirements
- Potential markets and paths to market for project power and renewable sales
- Risks and utility rules.

#### Strategy and Detail
Narrow down the project options, including:
- Final resource
- Tribal role/ownership structure
- Tax structure
- Financing options
- Procurement process
- Permits.

#### Planning and Development
Make decisions about:
- Ownership structure and project team
- Permitting (including environmental reviews) and interconnection agreement
- Technology, financing, and development costs
- Economics
- Vendors.

#### Financing and Construction
Complete physical construction of project, which includes:
- Project agreements
- Vendor contracting process
- Preconstruction tasks
- Construction and equipment installation
- Interconnection
- Commissioning of project leading to commercial operations.

#### Long-Term Management
Implement operations and maintenance plan that accounts for:
- Equipment maintenance and upkeep
- Inverter replacement
- Insurance
- Labor and staffing
- Extended warranty agreements.

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### Renewable Energy Curriculum and Technical Assistance for Tribes

The DOE Office of Indian Energy’s educational courses provide an overview of renewable energy technologies, strategic energy planning, and renewable energy project development and financing. Access the free, on-demand webinars at [www.nterlearning.org](http://www.nterlearning.org) (search for “Indian Energy”).

Alaska Native villages or regional and village corporations can apply to receive up to 40 hours of free technical assistance from DOE to help with strategic energy planning, project development, and finance. Apply online at [energy.gov/indianenergy/technical-assistance](http://energy.gov/indianenergy/technical-assistance).

The National Renewable Energy Laboratory's Alex Dane helps repair the tracking motor of a community-owned solar photovoltaic array in Venetie, Alaska, as part of DOE Office of Indian Energy’s Strategic Technical Assistance Response Team (START) Program.