

Indian River Hydroelectric Project

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| Grantees | City of Tenakee Springs Electric Department (Local Government) |
| Technology Type | HYDRO |
| Region | Southeast |
| AEDG Project Code | 10067 |

REF Grants Received

| Round | App | Grant Title | Grant # | AEA Project # | Phase | Start Date | End Date | Status |
|-------|-----|---|---------|---------------|--------------|------------|----------|--------|
| 4 | 695 | Indian River Hydroelectric Project | 7040041 | 407014 | Final Design | 7/1/11 | 12/31/15 | Active |
| 6 | 978 | Indian River Hydroelectric Project Construction | 7060978 | 407014 | Construction | 7/1/13 | 12/31/15 | Active |

Grant 7040041: Indian River Hydroelectric Project

Project Scope: Project is to complete permitting and final design of a 120 kW run-of-river hydroelectric project on Indian River to serve the community of Tenakee Springs.

Project Status: All state permits necessary for construction have been issued. ADNR issued the City Early Entry Authorization for project easements on state land effective August 1, 2013. State Fish Habitat and Water Use permits have been issued. The City applied for and ADNR issued a final decision to reopen an existing rock quarry at approximately mile 0.8 of Indian River Road for use. USFS issued a road use permit for Indian River Road that is good for 5 years and is renewable indefinitely. The COE issued permits for wetlands fill and work in waters. Phase I (access) design drawings and contracts were finalized and issued for construction, 95% drawings for Phase II is in progress. Engineer's cost estimate for Phase I was completed and Phase II is being updated. Engineer's cost estimate for Phase II, updated financial and economic analysis, and draft business and operating plans are to be done during the next reporting period.

As of January 2016 the City is completing final revisions to the Phase II drawings to simplify the project and increase the available head slightly. Construction is expected to resume in 2016.

| As of Nov. 30, 2013 | Budget | Expenditures |
|----------------------------|---------------------|---------------------|
| Renewable Energy Funding | \$203,000.00 | \$184,654.54 |
| Other State Funding | \$0.00 | \$0.00 |
| Total State | \$203,000.00 | \$184,654.54 |
| Required Local Match | \$26,000.00 | \$24,795.75 |
| Federal Grant Funding | \$0.00 | \$0.00 |
| Total Project Costs | \$229,000.00 | \$209,450.29 |

Grant 7060978: Indian River Hydroelectric Project Construction

Project Scope: The City of Tenakee Springs, the electric utility provider, will use the \$2,988,000 Round VI Renewable Energy Fund grant, \$312,000 of cash matching funds from a Legislative grant, and \$20,000 of in-kind local matching funds, to construct the 180 kW run-of-river Indian River Hydroelectric Project in Tenakee Springs.

Project features include a concrete diversion structure collocated near a U.S. Forest Service fish passage facility at the head of falls #4 on Indian River, a 1,534 foot long penstock, a powerhouse located below falls #2, and a new transmission line approximately 1 mile in length to connect to the existing electrical distribution system. The project will be developed on State and City land. The project is estimated to meet approximately 90% of the electrical demand of Tenakee Springs.

The City of Tenakee Springs received funding for feasibility assessment under Round I (2195348), and permitting and final design under Round IV (7040041) for the project. Final design is being completed under the Round IV grant at the time of this grant award. Before funds for construction are released permits and final drawings and specifications must be accepted by the Authority.

The City issued an invitation to bid May 2015 and then passed a unanimous resolution to award and provided notice of intent to award to Southeast Road Builders, Inc. and executed the contract for the Phase II construction which began in mid June 2015.

Project Status: Plans were submitted for AEA review in November 2014. Switchgear and hydro turbine specs were submitted for review in November 2014. The business & operating plan, cost estimate and engineers energy estimate were submitted for review in January 2015.

As of January 2016 the City is completing final revisions to the Phase II drawings to simplify the project and increase the available head slightly. Construction is expected to resume in 2016.

| As of Nov. 30, 2013 | Budget | Expenditures |
|----------------------------|-----------------------|-----------------------|
| Renewable Energy Funding | \$2,988,000.00 | \$1,361,438.85 |
| Other State Funding | \$312,000.00 | \$57,406.83 |
| Total State | \$3,300,000.00 | \$1,418,845.68 |
| Required Local Match | \$20,000.00 | \$700.00 |
| Federal Grant Funding | \$0.00 | \$0.00 |
| Total Project Costs | \$3,320,000.00 | \$1,419,545.68 |