INITIAL STUDY / PROPOSED NEGATIVE DECLARATION FOR THE BLUE LAKE RANCHERIA MICROGRID PROJECT

Proposed Electric Program Investment Charge (EPIC) Grant
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ACKNOWLEDGEMENTS

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Eli Harland
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Geoff Lesh
Marylou Taylor
ABSTRACT

California Energy Commission (Energy Commission) staff proposes that the Energy Commission enter into a $5 million Electric Program Investment Charge (EPIC) grant agreement with the Schatz Energy Research Center of the Humboldt State University Sponsored Programs Foundation to build a microgrid at the Blue Lake Rancheria. The EPIC Program administered by the Energy Commission provides funding for applied research and development, technology demonstration and deployment, and market facilitation for clean energy technologies and approaches for the benefit of ratepayers of Pacific Gas and Electric Company, San Diego Gas & Electric Company, and Southern California Edison Company through a competitive grant solicitation process.

Blue Lake Rancheria is a federally recognized Native-American Tribe located in Blue Lake, Humboldt County, California. The microgrid project would be constructed on land that is self-governed by the Blue Lake Rancheria. Blue Lake Rancheria conducted an environmental review according to their Environmental Policy Ordinance 02-2000, which requires a detailed report on the environmental impacts of the proposed action that is in substantial compliance with the requirements set out in the National Environmental Policy Act (NEPA). On March 31, 2015, Blue Lake Rancheria approved their Environmental Assessment (EA) of the proposed project and made a Finding of No Significant Impact (FONSI) based on the information in the EA.

Because the Energy Commission proposes to fund the microgrid project, an activity that may cause a direct or indirect physical change in the environment, the Commission must comply with the California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.) Energy Commission staff prepared an Initial Study that evaluates the potential effects to the environment located outside the tribal land. As described in the Initial Study, Energy Commission staff determines that the proposed project could not have a significant effect on the environment. Therefore, staff has prepared and recommends that the Energy Commission adopt a Negative Declaration for this project.

Keywords: Energy Commission, Electric Program Investment Charge, EPIC, microgrid, solar photovoltaic (PV), grant, technology, California Environmental Quality Act, CEQA, Negative Declaration, Initial Study, National Environmental Policy Act, NEPA, Environmental Assessment, Finding of No Significant Impact (FONSI), Blue Lake Rancheria

Please use the following citation for this report:

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PROPOSED NEGATIVE DECLARATION

PROJECT:

Blue Lake Rancheria Microgrid Project – EPIC Grant
428 Chartin Road
Blue Lake, CA 95525

LEAD AGENCY:

California Energy Commission

AVAILABILITY OF DOCUMENTS:

The Notice of Intent to adopt the proposed Negative Declaration has been posted on site, in three locations at 428 Chartin Road, Blue Lake, California 95525 and off site at the Blue Lake Post Office, 411 1st Street, Blue Lake, CA 95525, and at the County of Humboldt Clerk-Recorder, 825 5th Street, Eureka, California 95501.

This Energy Commission Initial Study and proposed Negative Declaration are available at the following locations:

- Online, at www.energy.ca.gov/research/epic/environmental_review_documents.html
- At the California Energy Commission Library, located at 1516 Ninth Street, Sacramento, California 95814, Monday through Friday, between the hours of 8:30 AM and 4:30 PM
- At the Blue Lake Rancheria Library, located at 428 Chartin Road Road, Blue Lake (Humboldt County), California 95525, Monday through Friday, between the hours of 8:30 AM and 4:30 PM

PROJECT DESCRIPTION:

California Energy Commission staff proposes that the Energy Commission enter into a $5 million Electric Program Investment Charge (EPIC) grant agreement with the Schatz Energy Research Center of the Humboldt State University Sponsored Programs Foundation to build a microgrid at the Blue Lake Rancheria (BLR) at 428 Chartin Road, Blue Lake, CA 95525. BLR is a federally recognized Native-American Tribe located in Blue Lake, Humboldt County, California. The project would be constructed on land that is self-governed by BLR and is subject to BLR’s Tribal Ordinance, including environmental review.
Activities associated with the project would include grading a 1.8-acre parcel for a 500 kilowatt (kW) solar photovoltaic (PV) system, a 625 square-foot concrete pad for a battery energy storage system, and digging an 800-foot long trench for conduit and electrical wires to connect the PV system and battery system. More specifically, the project includes the following activities (BLR 2015a):

- Site grading of 1.8-acre site for an approximate 500 kW ground mounted solar array;
- Paving for solar array footings (approximately 20 footings at 3 square feet each);
- Approximate 625 square-foot concrete pad for containment and enclosure for 800 kWh battery system;
- Approximate 800 linear feet of underground conduit utility and power connections between the solar array and battery system and existing onsite infrastructure;
- Approximate 100 square-foot concrete pad for ground-mounted recloser circuit breaker and associated equipment;
- New and modified electrical equipment at existing structures in BLR casino, hotel, and tribal government office;
- Purchase and transitioning of control of certain Pacific Gas & Electric (PG&E) electrical infrastructure from the main transformer at Chartin Road to the casino, hotel, and tribal office buildings; and
- Potential expansion of the solar array and/or battery storage banks to achieve an approximate 1 megawatt (MW) solar array and an approximate 1,600 kWh battery system.
The EPIC Program administered by the California Energy Commission provides funding for applied research and development, technology demonstration and deployment, and market facilitation for clean energy technologies and approaches for the benefit of ratepayers of Pacific Gas and Electric Company, San Diego Gas & Electric Company, and Southern California Edison Company through a competitive grant solicitation process.

The California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.) applies to discretionary projects proposed to be carried out or approved by public agencies. The definition of a “project” includes an activity that may cause a direct or indirect physical change in the environment which is supported in whole or in part through a grant from a public agency (Pub. Resources Code, § 21065). The CEQA Guidelines define a “public agency” as any state agency, board, or commission and any local or regional agency (Cal. Code Regs., tit. 14, § 15379). While CEQA applies to the Energy Commission, a state agency which proposes to fund the Blue Lake Rancheria Microgrid Project, it does not apply to the tribe.

To comply with the Tribal Ordinance, BLR conducted an environmental review according to their Environmental Policy Ordinance 02-2000. The ordinance requires the tribe’s assessment to include a:

“...detailed report on the environmental impacts of the proposed action which is in substantial compliance with the requirements set out in the National Environmental Policy Act [NEPA] (42 U.S.C. §4321, et seq.), the implementing regulations and guidance adopted by the Council on Environmental Quality, and the implementing regulations and guidance adopted by the Bureau of Indian Affairs, as they may be amended from time to time.”

On March 31, 2015, BLR approved their Environmental Assessment (EA) of the proposed project and made a Finding of No Significant Impact (FONSI) based on the information in the EA. The EA/FONSI is included in Appendix A of this Initial Study.

Because BLR completed an analysis according to their own ordinance of the potential effects of the project on their own sovereign land, Energy Commission staff prepared an Initial Study that evaluates the potential effects to the environment located outside the tribal land. The discussion and analysis provided in this Initial Study use the term “offsite” to indicate areas outside tribal land. Based on Energy Commission staff’s review, staff concluded that for the following environmental topic areas, the project would not result in any effects at offsite locations and/or could result in effects solely on tribal land and already considered in the EA/FONSI.

- Agriculture and Forestry Resources
- Biological Resources
- Cultural Resources
- Geology / Soils
- Greenhouse Gas Emissions
- Land Use / Planning
FINDINGS:

This Initial Study found no significant offsite impacts to the environment from the proposed Blue Lake Rancheria Microgrid Project. No mitigation measures are required.

On the basis of this initial evaluation:

☒ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.
ENVIRONMENTAL ISSUES

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<tr>
<th>ENVIRONMENTAL ISSUES</th>
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<td>I. Aesthetics.</td>
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<td>Would the project:</td>
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<td>a) Have a substantial adverse effect on a scenic vista?</td>
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<td>b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?</td>
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<td>c) Substantially degrade the existing visual character or quality of the site and its surroundings?</td>
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<td>d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?</td>
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ENVIRONMENTAL SETTING

Visually, the area is predominantly rural in character. The hotel and casino associated with the Blue Lake Rancheria dominate the vertical viewscape in the project area. Wastewater treatment ponds, open grasslands, and trees dominate views of the remainder of surrounding areas. Views of homes and small businesses in the Blue Lake community are visible in peripheral views. State Route (SR) 299 traverses east-west approximately 500 feet to the north of the project site. Arcata-Eureka Airport and Murray Field, the closest airports to the project site, are located approximately 8 miles to the northwest and southwest, respectively.

DISCUSSION

Would the project:

a) Have a substantial adverse effect on a scenic vista?

The site is located adjacent to developed, disturbed areas. Although located in a rural area of Humboldt County, there are no visual features in the project area consisting of a scenic vista or unique scenic resource. The project would not have a substantial adverse effect on a scenic vista.

NO IMPACT

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

The project site is located within viewing distance of SR 299. SR 299 in the project area is identified as an Eligible State Scenic Highway – Not Officially Designated
(CALTRANS 2015a). The project site is currently a grass area and contains no significant scenic resource. The project would not damage a scenic resource within view of a state scenic highway.

**NO IMPACT**

c) **Substantially degrade the existing visual character or quality of the site and its surroundings?**

The project site is currently a grass area and is visible offsite from SR 299 which is located approximately 500 feet north and 20 feet above the project site. The majority of offsite views of the project site would originate from travelers along SR 299. Approximately 10,000 vehicles on SR 299 pass by the intersection with Blue Lake Road on an average daily basis (CALTRANS 2015b).

As shown in the three views from SR 299 below, the Blue Lake Rancheria Casino and Hotel dominates the central view, particularly when looking to the west. Views to the south and east are obscured by vegetation and other structures.

View towards project site looking east-southeast from State Route 299 (Source: Google Maps)
Construction of the proposed solar facility on the existing grass area would change the view of a relatively small area (approximately 1.8 acres) as viewed from SR 299 and in relation to existing structures and buildings associated with the Blue Lake Rancheria. The proposed solar facility would not substantially degrade the existing visual character or quality of the project area as viewed from offsite.

Impacts would be LESS THAN SIGNIFICANT.
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Solar panels manufactured today predominantly use a glass pane to cover the photovoltaic panel. The glass has the potential to reflect sunlight thereby creating glare in the project area. The proposed solar facility would be designed so that the solar panels are in a fixed position facing to the south with the panels themselves fixed to their bases on the ground. The solar panels would not move to track the sun. Based on this design, the front of the solar panels would face away from travelers along SR 299. Therefore, the solar facility would not create glare that could affect daytime views from offsite.

Impacts would be LESS THAN SIGNIFICANT.

MITIGATION MEASURES

None

CONCLUSION

The proposed Blue Lake Rancheria Project would not result in significant, adverse visual or aesthetic impacts.

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<td>III. Air Quality.</td>
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<td>Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.</td>
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<td>Would the project:</td>
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<td>a) Conflict with or obstruct implementation of the applicable air quality plan?</td>
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<td>b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?</td>
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<td>c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?</td>
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<td>d) Expose sensitive receptors to substantial pollutant concentrations?</td>
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<td>e) Create objectionable odors affecting a substantial number of people?</td>
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ENVIRONMENTAL SETTING

The project site would be located in the jurisdiction of the North Coast Unified Air Quality Management District (NCUAQMD). The District's responsibilities include the control of air pollution from stationary sources and fugitive emissions from construction activities (NCUAQMD 2015a). The air quality in Humboldt County is considered to be "in attainment" for state and federal ambient air quality standards except for California's 24-hour particulate matter (PM\textsubscript{10}) standard. Mobile sources such as trucks, automobiles and construction equipment, and their air pollutant emissions, are under the jurisdiction of the California Air Resources Board (ARB).

The two air pollutants of greatest concern in the District are ozone and particulate matter. Humboldt County's sunny climate, pollution-trapping mountains and valleys, along with growing population, contribute to these pollutants' levels. Ozone is an invisible secondary pollutant created by a chemical reaction that involves two precursor air pollutants (nitrogen oxides and reactive hydrocarbons) and sunlight. Ozone is a powerful respiratory irritant that can cause coughing, shortness of breath, headaches, fatigue and lung damage, especially among children, the elderly, the ill and people who exercise outdoors. Particulate matter contains fine mineral, metal, soot, smoke, and/or dust particles suspended in the air. Sources of particulate matter in the project area include on-road and off-road vehicles (e.g., engine exhaust, dust from unpaved roads), open burning of vegetation, residential wood stoves, and stationary industrial sources (e.g., factories). For health reasons, the air agencies are most concerned with particulate matter less than 10 and 2.5 microns in diameter (PM\textsubscript{10} and PM\textsubscript{2.5}, respectively). Particles of these sizes can permanently lodge in the deepest, most sensitive areas of the lungs and cause respiratory and other health problems (NCUAQMD 2015b).

Construction activities would include the operation of a ready mix truck (1 to 2 days total for battery storage system foundation), skid steer, mini excavator, grader, and water truck.

DISCUSSION

Would the project:
a) Conflict with or obstruct implementation of the applicable air quality plan?

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Construction activities and operation of the proposed project would not violate the air quality plan of the NCUAQMD. In addition, there would be no activities associated with construction or operation of the proposed project that would violate an air quality standard or contribute to an existing air quality violation. All construction activities and equipment (i.e., ready mix truck, skid steer, mini excavator, grader, water truck) would be required to comply with all rules and regulations of the NCUAQMD and the ARB including for open burning (e.g., vegetation clearing) and toxic air contaminants (e.g., operation of construction equipment).

Conflict with or obstruct implementation of the applicable air quality plan: NO IMPACT

Violate any air quality standard or contribute substantially to an existing or projected air quality violation: Impacts would be LESS THAN SIGNIFICANT.

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

The area of disturbance on the project site would be of relatively small size, less than 2 acres, and construction activities would be limited to a 4-month period. As mentioned previously, the NCUAQMD is in non-attainment for California’s 24-hour PM$_{10}$ standard. Site grading would create particulate matter (i.e., dust). As such, construction activities would have the potential to increase the emissions of an air pollutant for which the project region is in non-attainment. The project proponent has identified that a watering truck would be used onsite to control fugitive dust on a daily basis, or more often as needed, unless it is raining (GANION 2015a). (See Appendix B.) With use of the watering truck during site grading, emissions of particulate matter (PM$_{10}$ and PM$_{2.5}$) would be reduced and would not considerably increase the amount of this air pollutant in the project area.

Impacts would be LESS THAN SIGNIFICANT.

d) Expose sensitive receptors to substantial pollutant concentrations?

The area of disturbance on the project site would be of relatively small size, less than 2 acres, and construction activities would be limited to a 4-month period. Activities associated with the proposed project that have the potential to create the most pollutants (e.g., dust) would occur during site grading, which could affect sensitive receptors. However, construction activities would include the operation of a water truck which would substantially reduce the amount of dust created. With use of the water
truck, the proposed project would not have the potential to expose offsite receptors to substantial pollutant concentrations.

Impacts would be **LESS THAN SIGNIFICANT**.

e) **Create objectionable odors affecting a substantial number of people?**

The project would not involve any activities or sources that create objectionable odors.

**NO IMPACT**

**MITIGATION MEASURES**

None

**CONCLUSION**

The proposed Blue Lake Rancheria Project would not result in significant, adverse impacts to air quality.

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<td><strong>VIII. Hazards and Hazardous Materials</strong></td>
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<td>Would the project:</td>
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<tr>
<td>a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?</td>
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<td>b) Create a significant hazard to the public or the environment through reasonable foreseeable upset and accident conditions involving the release of hazardous materials into the environment?</td>
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<td>c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?</td>
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<td>d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?</td>
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<td>e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?</td>
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<td>f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people</td>
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<td>residing or working in the project area?</td>
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<td>g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?</td>
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<td>h) Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized area or where residences are intermixed with wildlands?</td>
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ENVIRONMENTAL SETTING

The project is not located on an identified hazardous waste site. It is located approximately 350 feet from the Blue Lake Rancheria Hotel and Casino.

DISCUSSION

Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

The lithium battery elements that are combined to make up the battery storage system are similar to consumer-grade lithium ion batteries. They are small, self-contained, and semi-sealed, making leaks highly unlikely. The lithium contained in lithium ion batteries is contained in an ionic form within the electrolyte, making it less flammable than actual lithium metal, and the metals in lithium ion batteries - cobalt, copper, nickel and iron - are considered safe for landfills or incinerators.

Furthermore, as stated in their submitted CEQA Compliance Form, the tribe has adopted the State of California’s Uniform Building Code (UBC) and International Building Code (IBC) and would issue the project a building permit ensuring compliance with these codes (BLR 2015b). (See Appendix C for the tribe’s submitted CEQA Compliance Form.) This would further ensure safe installation and operation of the battery system.

Impacts would be LESS THAN SIGNIFICANT.

b) Create a significant hazard to the public or the environment through reasonable foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

In case battery leakage were to occur, the battery system would be enclosed in a containment system and would have an additional catchment system. This would
provide protection against leaks and would prevent contamination of run-off. Although there is the very unlikely potential for fire, significant impact from a hazardous materials release would be very unlikely.

Furthermore, as stated in their submitted CEQA Compliance Form, the tribe has adopted the State of California’s Uniform Building Code (UBC) and International Building Code (IBC) and would issue the project a building permit ensuring compliance with these codes (BLR 2015b). (See Appendix C for the tribe’s submitted CEQA Compliance Form.) This would further ensure safe installation and operation of the battery system.

Impacts would be **LESS THAN SIGNIFICANT**.

c) **Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?**

There is no school within one-quarter mile of the project.

**NO IMPACT**

d) **Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

Staff reviewed two environmental hazard databases: the Department of Toxic Substances Control (DTSC) EnviroStor database and the Environmental Protection (EPA) EnviroMapper database. The EnviroStor database provides access to information about environmental clean-ups and permitted facilities in a community. The EnviroMapper database provides access to several EPA databases that provide information about environmental activities potentially affecting air, water, and land anywhere in the United States. According to these databases, the project site is not included on a list of hazardous materials sites.

**NO IMPACT**

e) **For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?**

The project is not located within an airport land use plan or within two miles of an airport.

**NO IMPACT**

f) **For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?**
The project is not located within the vicinity of a private airstrip.

NO IMPACT

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

The project would not provide any physical or hazardous material obstructions that would interfere with any emergency response plan or emergency evacuation plan.

NO IMPACT

h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

The battery storage bank contains a small amount of lithium. It is enclosed in its own containment system and is UL certified. Lithium batteries can overheat and ignite under certain conditions. It would be unlikely that the lithium battery would cause a fire. If it did, however, the fire would likely be self-contained to the battery unit area and would not threaten people or structures.

Furthermore, as stated in their submitted CEQA Compliance Form, the tribe has adopted the State of California’s Uniform Building Code (UBC) and International Building Code (IBC) and would issue the project a building permit ensuring compliance with these codes (BLR 2015b). (See Appendix C for the tribe’s submitted CEQA Compliance Form.) This would also minimize the chance of battery fire.

While the project would not expose people or structures to a significant risk of wildland fires, it would provide power generation, even if the local utility grid went offline, to Blue Lake Rancheria critical facilities, including an emergency operations center, American Red Cross emergency shelter, a fueling station, the community water supply, food market/storage/preparation facilities, and a wildland fire department, in the case of a fire or other disaster in the region.

Impacts would be LESS THAN SIGNIFICANT.

MITIGATION MEASURES

None
CONCLUSION

The project’s Hazards and Hazardous Materials impacts would be less than significant.

<table>
<thead>
<tr>
<th>ENVIRONMENTAL ISSUES</th>
<th>Potentially Significant Impact</th>
<th>Less Than Significant with Mitigation Incorporated</th>
<th>Less Than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX. Hydrology and Water Quality</td>
<td>Would the project:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a) Violate any water quality standards or waste discharge requirements?</td>
<td>☐</td>
<td>☐</td>
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</tr>
<tr>
<td>b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?</td>
<td>☐</td>
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</tr>
<tr>
<td>c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?</td>
<td>☐</td>
<td>☐</td>
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</tr>
<tr>
<td>d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>f) Otherwise substantially degrade water quality?</td>
<td>☐</td>
<td>☐</td>
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<td>☐</td>
</tr>
<tr>
<td>g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>i) Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>j) Inundation by seiche, tsunami, or mudflow?</td>
<td>☐</td>
<td>☐</td>
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</tr>
</tbody>
</table>
ENVIRONMENTAL SETTING

The project site at Blue Lake Rancheria is currently undeveloped grassland. The project would require land disturbance of about 1.8 acres within the Mad River hydrologic unit. This region receives approximately 48 inches of precipitation annually (Caltrans 2015c). Soils encountered at the site would be expected to consist of highly weathered floodplain alluvium that is susceptible to erosion and offsite sedimentation. Rain water falling onto the site that does not soak into the ground is expected to drain westward towards the Mad River, which is less than one-quarter mile away.

DISCUSSION

Would the project:

i) Violate any water quality standards or waste discharge requirements?

The project is subject to and would comply with the Environmental Protection Agency's (EPA's) National Pollutant Discharge Elimination System (NPDES) Construction General Permit, which addresses off-site impacts to water systems. This is required for all construction activities greater than 1 acre, including those located on tribal land. Compliance with this regulation would prevent or minimize off-site run-off.

Also, most of the site, with the exception of the solar array footings and the concrete pads for the battery system and recloser circuit breaker, would be permeable gravel, and would therefore not alter the existing drainage pattern in a way that would result in substantial erosion or siltation off-site or increase the rate or amount of surface run-off. Impermeable surfaces such as paving would be more likely to result in changes to the existing drainage pattern.

The battery system contains a small amount of lithium ion, a hazardous substance that could potentially contaminate run-off from the site if leakage were to occur. However, the battery system would be enclosed in a containment system and would have an additional catchment system. This would provide protection against leaks and would prevent contamination of run-off. Furthermore, as stated in their submitted CEQA Compliance Form, the tribe has adopted the State of California's Uniform Building Code (UBC) and International Building Code (IBC) and would issue the project a building permit ensuring compliance with these codes (BLR 2015b). (See Appendix C for the tribe’s submitted CEQA Compliance Form.) This would also minimize the chance of battery leakage.

Impacts would be LESS THAN SIGNIFICANT.

j) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-
existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

A watering truck would be used onsite during construction to conduct watering for fugitive dust control on a daily basis, or more often as needed, unless it is raining (GANION 2015a). (See Appendix B.) However, the amount of water used would be negligible given that the site is only 1.8 acres and that the construction period is only 4 months.

There is no planned water use during operation. The project would have no onsite personnel who would require potable water. Also, the project owner stated that rainwater in the area is usually sufficient for washing the PV panels. If panel washing was required at some point, the project owner would fill a 1,500-gallon water truck from existing water sources at the Blue Lake Rancheria (GANION 2015b). (See Appendix D.) Any water used during operation would be minimal.

Impacts would be LESS THAN SIGNIFICANT.

k) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?

l) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

m) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

n) Otherwise substantially degrade water quality?

The project is subject to and would comply with the Environmental Protection Agency’s (EPA’s) National Pollutant Discharge Elimination System (NPDES) Construction General Permit, which addresses off-site impacts to water systems. This is required for all construction activities greater than 1 acre, including those located on tribal land. Compliance with this regulation would prevent or minimize off-site run-off.

Also, most of the site, with the exception of the solar array footings and the concrete pads for the battery system and recloser circuit breaker, would be permeable gravel, and would therefore not alter the existing drainage pattern in a way that would result in substantial erosion or siltation off-site or increase the rate or amount of surface run-off. Impermeable surfaces such as paving would be more likely to result in changes to the existing drainage pattern.
The battery system contains a small amount of lithium ion, a hazardous substance that could contaminate run-off from the site if leakage were to occur. However, the battery system would be enclosed in a containment system and would have an additional catchment system. This would provide protection against leaks and would prevent contamination of run-off. Furthermore, as stated in their submitted CEQA Compliance Form, the tribe has adopted the State of California’s Uniform Building Code (UBC) and International Building Code (IBC) and would issue the project a building permit ensuring compliance with these codes (BLR 2015b). (See Appendix C for the tribe’s submitted CEQA Compliance Form.) This would also minimize the chance of battery leakage.

Impacts would be **LESS THAN SIGNIFICANT**.

**o) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?**

The project does not include housing and is not located within a 100-year flood hazard area.

**NO IMPACT**

**p) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?**

The project is not located within a 100-year flood hazard area. Part of the site is located within a 500-year flood area. The solar arrays would be mounted on posts, allowing water to flow through.

**NO IMPACT**

**q) Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam?**

There are no known levees or dams nearby that could cause flooding of the project site, and the project does not include structures that would be occupied by people.

**NO IMPACT**

**r) Inundation by seiche, tsunami, or mudflow?**

The project is located inland and is not near any body of water, and therefore it would not be subject to a tsunami or seiche. Also, there are no steep slopes in the area that could cause mudflows.

While the project would not be subject to tsunamis, seiches, or mudflows, it would provide power generation, even if the local utility grid went offline, to Blue Lake.
Rancheria critical facilities, including an emergency operations center, American Red Cross emergency shelter, a fueling station, the community water supply, food market/storage/preparation facilities, and a wildland fire department, in the case of a tsunami along the coast or another disaster.

**NO IMPACT**

**MITIGATION MEASURES**

None

**CONCLUSION**

The project’s Hydrology and Water Quality impacts would be less than significant.

<table>
<thead>
<tr>
<th>ENVIRONMENTAL ISSUES</th>
<th>Potentially Significant Impact</th>
<th>Less Than Significant with Mitigation Incorporated</th>
<th>Less Than Significant Impact</th>
<th>No Impact</th>
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<tr>
<td><strong>XII. Noise</strong></td>
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<tr>
<td>Would the project result in:</td>
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<tr>
<td>a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</td>
<td>☐</td>
<td>☐</td>
<td>☒ Temporary Noise Impacts</td>
<td>☒ Permanent or Long-Term Noise Impacts</td>
</tr>
<tr>
<td>b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☒</td>
</tr>
<tr>
<td>c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☒</td>
</tr>
<tr>
<td>d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?</td>
<td>☐</td>
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</tbody>
</table>

**ENVIRONMENTAL SETTING**

The ambient noise level in the project area includes State Route 299, which is located approximately 500 feet to the north of the proposed project and runs in an east-west direction. The project would generate noise during the four-month construction period. Construction noise would be limited to business hours.

The nearest residence outside of the Blue Lake Rancheria property appears from Google Earth to be more than 1,000 feet north of the project site across from SR 299.
DISCUSSION

Would the project result in:

a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Construction of the proposed project would generate temporary additional noise during business hours during the four-month construction period. The nearest residence outside of the Blue Lake Rancheria property appears to be more than 1,000 feet north of the project site, across from SR 299. The Humboldt County General Plan states that the maximum acceptable exterior noise level for residences is 60 decibels (dB) without any additional insulation being required (HC 2015).

To minimize noise generated during construction, the project owner would ensure that all construction activities are in compliance with all applicable noise regulations. The tribe regularly conducts and tracks decibel readings for activities at the Blue Lake Rancheria, and would continue to do so during construction of the microgrid to ensure that noise levels are measured. Any construction noise generated would likely not be heard at the nearest residence given the proximity of SR 299, a biomass energy system with compressors and dust collection equipment, a 1 MW diesel generator routinely used, and the Rancheria’s main loading dock/delivery area that handles many vehicles daily. Furthermore, construction would occur only during business hours and would therefore not generate noise at night (GANION 2015a). (See Appendix B.) Off-site noise generated by the project would be LESS THAN SIGNIFICANT during construction.

Operation of the proposed project would reduce noise levels because the solar array and battery bank would supplant the diesel generator that currently provides back-up power for the casino. (The diesel generator would still be onsite and testing and infrequent operations would still occur.) Operation would not generate any permanent or long-term increase in off-site ambient noise levels in the project vicinity, and therefore there would be NO IMPACT during operation.

Neither construction or operation of the project would involve activities (such as pile-driving) that would generate excessive off-site groundborne vibration or noise levels. There would be NO IMPACT.
MITIGATION MEASURES

None

CONCLUSION

The project’s Noise impacts would be less than significant.

<table>
<thead>
<tr>
<th>ENVIRONMENTAL ISSUES</th>
<th>Potentially Significant Impact</th>
<th>Less Than Significant with Mitigation Incorporated</th>
<th>Less Than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>XVI. Transportation/Traffic</td>
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<tr>
<td>Would the project:</td>
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<td></td>
</tr>
<tr>
<td>a) Cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume-to-capacity ratio on roads, or congestion at intersections)?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>b) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
</tr>
<tr>
<td>c) Conflict with an applicable congestion management program, including, but not limited to, level of service (LOS) standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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</tr>
<tr>
<td>d) Substantially increase hazards due to a design feature (e.g., sharp curves, dangerous intersections, or glint and glare) or incompatible uses (e.g., farm equipment)?</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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</tr>
<tr>
<td>e) Result in inadequate emergency access?</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
</tr>
<tr>
<td>f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
</tr>
<tr>
<td>g) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?</td>
<td>☐</td>
<td>☐</td>
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</tbody>
</table>
ENVIRONMENTAL SETTING

The proposed project is located in a mostly rural area approximately 500 feet south of State Route 299, which runs in an east-west direction with two lanes in each direction near the project site. Vehicles would access the project site via the Blue Lake Boulevard exit off of SR 299, turning south on Chartin Road for direct access to the Blue Lake Rancheria property. The nearest airports are the Arcata-Eureka Airport, approximately 8 miles northwest of the project site, and Murray Field, approximately 8 miles southwest of the project site. The Blue Lake Rancheria funds and operates a bus transit system that services the city of Blue Lake and provides round trips between Arcata and Blue Lake. It operates approximately 13 hours per day Monday through Friday (BLR 2015c).

Project construction traffic would include an average of 5 construction workers per day over the 4-month construction period, with a peak of 10 construction workers. There would be two of the following vehicles at the project site at any time: ready mix truck, skid steer, mini excavator, grader, and water truck. Because the main site contractors for this project (Kernen Construction) are based less than two miles from the Blue Lake Rancheria site, they would typically drive the equipment to the site as needed instead of driving commuter cars, resulting in just 0-3 daily commuter vehicle roundtrips generated by project construction. Construction would generate approximately 0-3 daily delivery vehicle roundtrips (GANION 2015a). (See Appendix B.)

The completed project would require no new employees for operation.

DISCUSSION

Would the project:

a) Cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume-to-capacity ratio on roads, or congestion at intersections)?

Project construction and operations traffic would be minimal. The worst-case scenario for traffic generated by the project would be during peak construction if all 10 of the construction workers drove to the site individually and if the maximum of 3 daily deliveries occurred. This would result in a maximum of 10 daily vehicle roundtrips and 3 daily delivery roundtrips for a total of 13 daily roundtrips. This would occur only temporarily and would be a negligible increase in traffic that would not impact level of service on nearby roads or State Route 299. During operations, the project would not generate any additional trips.

Impacts would be LESS THAN SIGNIFICANT.

b) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account
all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Due to the negligible increase in traffic generated by the project and the fact that construction and operation of the project would occur on Blue Lake Rancheria property (not in any right-of-way, etc.), the project would not conflict with any applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system.

NO IMPACT

c) Conflict with an applicable congestion management program, including, but not limited to, level of service (LOS) standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

The project would add a temporary negligible increase in traffic during construction (a maximum of 13 additional roundtrips per day) and no additional traffic during operation. Roadway level of service would not be affected.

NO IMPACT

d) Substantially increase hazards due to a design feature (e.g., sharp curves, dangerous intersections, or glint and glare) or incompatible uses (e.g., farm equipment)?

The site is accessed via an access road from State Route 299, with relatively light traffic levels in this area of the highway. There will be no increase in hazards due to a design feature or incompatible uses. PV panels can generate glare that appears similar to bodies of water and reflections from glass, which under certain conditions, can pose hazards to motorists by distracting them or at worst, temporarily causing vision impairment. The proposed PV panels, however, would be turned to the south, away from the highway and motorists, so there would be no impact. Furthermore, the nearest airports are more than 8 miles away from the site, so glare from solar panels would not affect aircraft on departure or landing.

NO IMPACT

e) Result in inadequate emergency access?

The proposed project would not physically block any access roads or result in traffic congestion which could compromise timely access to this facility or any other location.

NO IMPACT
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

The proposed project would not result in any conflict with adopted policies, plans, or programs supporting alternative transportation. Improvements would occur on-site and would not interfere with any mode of alternative transportation.

NO IMPACT

g) result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

The project would not generate additional air traffic and would not encroach on airport land, as the nearest airports are more than 8 miles away. PV panels are low in height and would not interfere with aircraft flights or air traffic patterns, or require review by the Federal Aviation Administration under Title 14, Part 77 of the Code of Federal Regulations.

NO IMPACT

MITIGATION MEASURES

None

CONCLUSION

The project’s Transportation and Traffic impacts would be less than significant.
REFERENCES

BLR 2015a – Blue Lake Rancheria Environmental Programs, Blue Lake Rancheria Environmental Assessment, March 31, 2015.


Blue Lake Rancheria
Environmental Assessment

The purpose of this report is to comply with the Blue Lake Rancheria Environmental Policy Ordinance (02-2000), ensuring that the Tribe gives proper and meaningful consideration of environmental, cultural, historical, and ecological factors when making decisions which may significantly affect the environment of the Blue Lake Rancheria. An Environmental Assessment should be completed for projects where there is thought to be no significant impact or there is uncertainty about whether or not a full Environmental Impact Statement (EIS) is needed. When the Environmental Assessment is reviewed there will be a decision issued as either a Finding of No Significant Impact (FONSI) or that the project will require an EIS.

Please fill out each section of the report completely and turn in to the Tribal Environmental Programs Director. Where background studies or information may be useful, please provide enough citation information so that the document can be located and used in the consideration of the proposed project.
Section I: Project Summary

Please provide a detailed summary of the proposed project including purpose and need.

This project consists of installing a microgrid control system within the Blue Lake Rancheria Tribe’s existing energy infrastructure, adding new electrical equipment to take over a small portion of the on-Rancheria Pacific Gas and Electric utility infrastructure (electric only), and adding construction of a ~1.8 acre ground mounted solar array (~500kW), a stationery battery storage bank (~800kWh), and related trenching and site work.

The purpose is to build a renewable and self-sustaining microgrid for the Blue Lake Rancheria (BLR). The system will provide cost savings for BLR and reduce stress on the larger California electric grid through peak shaving, demand response, and load shedding to reduce costs and power fluctuations. This project will also provide for public health and safety during emergencies. BLR is a nationally recognized American Red Cross critical support facility. This is crucial as the North Coast of California is an area especially susceptible to natural disasters, including earthquakes, tsunamis, floods, and wildfire. This microgrid system will ensure a long-term place of safety with continuing electric power in the event of an emergency. It will significantly increase import of local renewable energy to the state’s electric grid, through both a new 500 kW PV array and the 175 kW biomass gasifier/fuel cell power system. Adding significant renewable power to the grid reduces greenhouse gas emissions and makes electric power at BLR even more secure. (For these types of GHG reduction efforts, in 2014 the Blue Lake Rancheria was recognized by the White House and the Department of Energy as a “Climate Action Champion.”) And, this project implements regional renewable energy resources as recommended in Humboldt County’s “RePower Humboldt” strategic renewable energy plan. Components of the project include:

- ~1.8 acre site for a ~500kW ground mounted solar array (see diagram below) directly north of the wastewater treatment plant
- Site grading for solar array ~1.8 acre footprint
- Paving for solar array footings; estimated 20 footings at 3 square feet each
- Concrete pad, containment and enclosure for 800kWh battery system (currently sited on biomass bioenergy site; addressed in prior EA); estimated at 625 square foot concrete pad
- Underground conduit utility and power connections between solar and battery two systems and existing power infrastructure onsite; estimated at 800 linear feet
- Ground-mounted new recloser and associated equipment; estimated 100 square foot concrete pad
- New and modified electrical equipment within existing structures at casino, hotel, and tribal government office.
- Purchase and transitioning control of certain Pacific Gas and Electric (PG&E) electrical infrastructure from main transformer at Chartin Road to casino, hotel, and tribal office buildings.
- Potential expansion of the solar array and/or battery storage banks to achieve ~1MW in solar energy and ~1600kWh in battery energy storage.
The following image is an overview of the project and location.

(NOTE: Please see also Microgrid grant application documents).
## Section II: Checklist

**Blue Lake Rancheria Environmental Assessment Checklist**

<table>
<thead>
<tr>
<th>Environmental Issue:</th>
<th>No effect</th>
<th>Less than significant</th>
<th>Significant Effect</th>
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<tbody>
<tr>
<td>Aesthetics</td>
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<tr>
<td>Agricultural Resources</td>
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<tr>
<td>Air Quality</td>
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<tr>
<td>Biological Impacts (including wetlands and special status species)</td>
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<td>Cultural/Historical Resources</td>
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<tr>
<td>Geology and Soils</td>
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<td>Hazardous/Toxic Materials</td>
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<tr>
<td>Noise</td>
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<td>Population Growth and Housing</td>
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<td>Recreation</td>
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<td>Transportation/Traffic</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
Section III: Affected Environment

Identify presence or absence of the following within the area potentially affected by the proposed action:

(a) Floodplains?
There are floodplains in the project area where the solar array is sited. The Blue Lake Rancheria Tribe commissioned a survey of the elevations of the specific project area in 2014 within a FEMA flood recertification effort, and a portion of the area designated for the solar array is below the Zone B, 500-year flood plain. The other components of this project (battery banks, new recloser) are not located in a floodplain.

(b) Wetlands?
There are no wetlands in the project area. It is undeveloped grassland.

(c) Threatened, endangered, or candidate species and/or their critical habitat?
There are threatened, endangered, or candidate species, primarily birds, listed for this area, but no critical habitat for these species within the project area.

(d) Areas of recreational, ecological, scenic, or aesthetic importance?
There are no areas of recreational, ecological, scenic, or aesthetic importance within the project area.

(e) Natural resources (timber, fish, wildlife, waterbodies or aquifers)?
There are no natural resources (timber, fish, wildlife, waterbodies or aquifers) within or immediately adjacent to or underneath the project area.

(f) Property of historic, archaeological, or architectural significance?
There is no property of historic, archaeological, or architectural significance within the project area. The Blue Lake Rancheria Tribe’s Historic Preservation Officer has previously surveyed the project area and there are no areas of significance.

(g) Minority and low-income populations?
There are no minority and low-income populations within the project area. The area is adjacent to the City of Blue Lake’s wastewater treatment ponds, and undeveloped.
Section IV: Environmental Effects

Identify the potential effects, including cumulative effects, to the affected environments identified in the checklist in Section II and Section III. Short-term and long-term effects should be described, as well as both beneficial and adverse impacts on the environment and public health and safety.

Background
Several prior environmental reviews have been conducted for this project site. The Blue Lake Rancheria commissioned two previous Environmental Assessments (EAs) in 2001 (conducted by Environmental Science Associates, and the lead agency was the National Indian Gaming Commission) and 2013 (conducted by BLR Environmental Programs). In 2011, pursuant to the land into trust process, a Phase 1 Environmental Site Review was conducted for the site (by Oscar Larson & Associates). In 2014 a FEMA flood certification study was completed (by Points West Surveying Co.). There are also soils and other reports relative to the site area.

SECTION II Topics

Aesthetics
Potential effects: The solar array will be the primary visible and noticeable new component of this project. It will be visible from California Highway 299 and from the Blue Lake Hotel.
Adverse short-term effects/impacts: During installation, the construction site will be visible, and the grading could create some dust. However, the site has already been managed for fire safety, so the grading needed will be relatively minimal.
Beneficial short-term effects/impacts: In economically-challenged Humboldt County, new construction creates interest and excitement around economic development.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: Solar arrays are generally viewed as progressive, intelligent development. The hope is that the solar array, because it will be visible from California Highway 299, will contribute to the excitement and overall momentum and adoption of renewable energy for community-scale applications.
Cumulative effects: Positive improvement to site aesthetics.

Agricultural Resources
Potential effects: Installing a solar array will prevent certain agricultural uses of the land due to shading by the solar panels.
Adverse short-term effects/impacts: None. There are no current agricultural resources present or impacted.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: Solar energy could be used to power onsite agricultural development (e.g. greenhouses). Further, the ground under the solar array could be used for agriculture, certain groundcover plants such as herbs could be grown as an alternative for weedmat/gravel.
Cumulative effects: Positive, due to the potential for renewable energy for agricultural production and harvestable groundcover under the arrays.

Air Quality
Potential effects: Dust particulates in the air during grading (<1 week) during weekday business hours only.
Adverse short-term effects/impacts: Dust particulates in the air during grading (<1 week) during weekday business hours only.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: Renewable solar energy will reduce and/or replace the need for fossil fuels and fossil fuel power plant-related emissions.
Cumulative effects: None.

Biological Impacts (including wetlands and special status species)
Potential effects: None. There are no wetlands or special status species present at the project site.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Cultural/Historical Resources
Potential effects: If cultural resources are discovered during grading or trenching, all appropriate protocols will be followed. Every party will be given the Inadvertent Discovery Protocol prior to construction, and if a discovery is made during construction, all activities will stop, and the BLR Tribal Historic Preservation Officer will be called to the area.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Geology and Soils
Potential effects: Temporary ground disturbance during construction, especially grading and trenching.
No in-fill is anticipated.
Adverse short-term effects/impacts: Temporary ground disturbance during construction, especially grading and trenching.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: The ground under the solar array will be kept a permeable surface for the lifetime of the array (~40-50 years).
Cumulative effects: None.

Hazardous/Toxic Materials
Potential effects: The battery storage bank has no liquid chemicals, but still contains relatively small amounts of toxic components, such as lithium. The battery storage bank is enclosed in its own containment system, is UL certified, and will have an additional catchment system (likely concrete). The greatest likelihood of negative impact is that of a non-explosive fire. Because the equipment will be sited outdoors and away from current infrastructure, any fire is expected to be self-contained to the battery unit area.
Adverse short-term effects/impacts: Extremely low potential for leaks or fire.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: Extremely low potential for leaks or fire.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Hydrology/Water Quality
Potential effects: None.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Land Use Planning
Potential effects: The ~1.8 acre solar array will be a permanent structure, and other land use for that area will be limited (see also Agricultural Resources above).
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: Supports the Tribe’s green building/development frameworks.
Cumulative effects: Positive, as this project is consistent with the Tribe’s land use planning and economic development strategic plans.

Mineral Resources
Potential effects: None. There are no mineral resources impacted by this project.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Noise
Potential effects: Temporary construction-related noise during weekday business hours only, which is equivalent to or a minimal increase over typical noise in the project area.
Adverse short-term effects/impacts: Temporary construction-related noise, a minimal increase over typical noise in the project area. Hotel guests on floors 2-4 may hear construction-related noise.
Beneficial short-term effects/impacts: Any noise generated by solar array construction may generate positive interest in the project.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: The solar array and battery bank can be used for emergency back up power for the casino, which is currently provided by a noisy 1MW diesel generator. The relatively silent operation of solar + batteries would be a long term benefit in terms of noise reduction.
Cumulative effects: Positive, as it is anticipated the solar/battery/microgrid will reduce operation of diesel generator located close to project site.

Population Growth and Housing
Potential effects: None. The land proposed for this project is located immediately adjacent to a wastewater treatment plant and a light-industrial biomass bioenergy power plant, and not considered a future housing development area.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: Solar array creates a buffer between the wastewater treatment plant and potential housing sites further to the west, north, and east. Further, solar energy may be used to power on-Rancheria residences.
Cumulative effects: Positive.

Public Health/Hazards
Potential effects: Improved public health through replacement of fossil fuels with renewable energy and reduced GHG emissions. Improved community resiliency through onsite emergency power. The battery storage bank has toxic chemicals contained within the system, but will be completely surrounded by casing and additional catchment.
Adverse short-term effects/impacts: Extremely low potential for leaks or fire from battery system.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: Extremely low potential for leaks or fire from battery system.
Beneficial long-term effects/impacts: Reduced GHG emissions, improved public health through replacement of fossil fuels with renewable energy, long-term onsite emergency power in emergency situations.
Cumulative effects: Positive.

Public Services/Utilities
Potential effects: Temporary, intermittent use of back-up power (diesel generator) during construction. Increased resiliency created for onsite electric services/utilities. Potential economic savings with microgrid demand response and lowest cost of energy balancing. Adverse short-term effects/impacts: Temporary use of back-up diesel generators. Unforeseen installation issues that effect electric power supply.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: Increased reliability; energy savings; long-term emergency power onsite.
Cumulative effects: Positive, through overall increased reliability and reduced cost.

Recreation
Potential effects: None. The project area is not designated or envisioned for any type of recreational use.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: Eco-tourism draw.
Cumulative effects: Positive due to eco-tourism potential.

Transportation/Traffic
Potential effects: Some increase in traffic (<5 vehicles per day) on existing access roads during a ~4 month construction phase, equivalent to or minimal increase over typical traffic in the area.
Adverse short-term effects/impacts: Some increase in traffic (<5 vehicles per day) on existing access roads during a ~4 month construction phase.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None. Post construction there will be no increase in traffic to the site.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Beneficial and adverse impacts on the environment and public health and safety
The microgrid / solar / battery storage system will benefit the environment and public health and safety by adding a new source of long-term renewable energy, creating significant greenhouse gas reductions, and
providing emergency power for the Blue Lake Rancheria critical facilities, and increasing demand response capabilities deployable by BLR to help stabilize the larger California energy grid. Long-term, the system will have largely beneficial impacts to the environment. The project is limited to an estimated <2 acres, which includes the solar array and the battery foundation, and one additional electrical equipment pad. The project will create deep reductions in greenhouse gas emissions, because the system will produce ~500kW of electricity, which would otherwise have been produced by burning fossil fuels. And in the long- and short-term, there are no criteria pollutant emissions from the project.

SECTION III Topics

Floodplains
Potential effects: A 500-year flood inundates the solar array. The array will be designed so that a) the sensitive panels are above the floodplain, b) the portions of the anchors and posts in the floodplain elevations are sealed, and c) the entire solar infrastructure is as structurally robust as possible.
Adverse short-term effects/impacts: In a 500-year flood situation, potential damage to the solar array via water intrusion and/or debris.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: If the solar array is not harmed during a flood event, it will be operable to supply emergency power to the region.
Cumulative effects: None.

Wetlands
Potential effects: None. There are no wetlands in the project area. It is undeveloped grassland.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: The permeable surface proposed under the solar array will help the area percolate in perpetuity.
Cumulative effects: None.

Threatened, endangered, or candidate species and/or their critical habitat
Potential effects: None. The listed species for this region are included in the attached list, but this site does not have any habitat for these species.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.
Areas of recreational, ecological, scenic, or aesthetic importance
Potential effects: None. There are no areas of recreational, ecological, scenic, or aesthetic importance within the project area. The project area is adjacent to open wastewater treatment ponds.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Natural resources (timber, fish, wildlife, waterbodies or aquifers)
Potential effects: None. There are no natural resources (timber, fish, wildlife, waterbodies or aquifers) within or immediately adjacent to or underneath the project area.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Property of historic, archaeological, or architectural significance
Potential effects: None. There is no property of historic, archaeological, or architectural significance within the project area. The Blue Lake Rancheria Tribe’s Historic Preservation Officer has previously surveyed the project area and there are no areas of significance. Every party will be given the Inadvertent Discovery Protocol prior to construction, and if a discovery is made during construction, all activities will stop, and the BLR Tribal Historic Preservation Officer will be called to the area.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Minority and low-income populations
Potential effects: None. There are no minority and low-income populations within the project area. The area is adjacent to the City of Blue Lake’s wastewater treatment ponds, and undeveloped. There are <3 tribally-owned residences to the northeast of the site, with intermittent rental occupants.
Adverse short-term effects/impacts: None.
Beneficial short-term effects/impacts: None.
Adverse long-term effects/impacts: None.
Beneficial long-term effects/impacts: None.
Cumulative effects: None.

Additional Information
The project area is bordered on the south side by the City of Blue Lake wastewater treatment plant, and on the east side by light industrial bioenergy power plant, a biomass fuel storage building. The other borders are undeveloped grasslands without waterways. The site is ~500 yards from economic enterprises — including a casino loading dock area, 4-story hotel — and any related noise / dust issues will be mitigated to the greatest extent to prevent business interruption. There are <3 tribally-owned houses within ¾ mile of the site.

Long-term effects on aesthetics, noise, population growth and housing, and recreation are minor due to the relatively small size of the system and the location of the project adjacent to existing wastewater treatment ponds, commercial loading dock, 1 MW backup generator, bioenergy system and other light industrial use areas.

Once in operation, the solar array, the battery storage banks (which may be partially or completely enclosed), and additional electrical equipment will not emit any significant additional noise levels.

The project and project area will only have short-term impact on geology and soils due to grading that will occur during installation of the solar array and relatively shallow trenching to run conduit piping under the array and to the battery storage bank concrete pad. The battery storage bank concrete pad will be 100 square feet and either a) a repurpose of existing concrete pad in the area, or b) a new concrete pad adjacent to existing buildings.

The recloser, and other new electrical equipment are sited on existing developed areas, which have already been subject to environmental review. The majority of all associated trenching and minimal grading for electrical equipment will occur in areas that are already paved and graded pursuant to prior projects.

Under typical construction and operating conditions, the project will have no hazardous/toxic materials exposed to the environment. The battery storage system proposed is a lithium ion technology, and as such contains some chemicals. If there is a failure of the casings, a chemical leak could occur. This will be mitigated by a 5-year service contract with the manufacturer to provide all the safety checks and maintenance by certified technicians, and the entire battery bank equipment will be surrounded by concrete catchment and other catchment/safety precautions according to manufacturer installation requirements.

There will be minor / no significant effect on transportation/traffic, as the project area is located adjacent to the main truck route for all the economic enterprises. The power system will only increase traffic by <5 vehicles a day during construction, and no increase in traffic post-construction.
Section V: Scoping/Public Comment

Describe and document public meetings, notices, etc. held to discuss proposed project with the community, and address comments that came up during this process.

There have been 3 public meetings on the microgrid project and one future planned meeting.

- November 4, 2014 – Tribal Council meeting open to the public. Notice posted at least 7 days in advance, per the Constitution of the Blue Lake Rancheria. Presentation to the Tribal Council on the project, EPIC grant application and matching funding. Initiative approved. There were no comments or questions.

- November 19th, 2014 – City of Blue Lake Town Hall Public Meeting attended by over 60 local residents (City of Blue Lake is directly adjacent to Blue Lake Rancheria). Notice posted November 4, 2014. Presentation to City of Blue Lake residents on microgrid, solar, battery project and potential benefits in terms of emergency evacuation center/shelter with long-term emergency power for the greater community. There was one verbal question: How long would the solar/battery/microgrid system operate in emergency mode? The verbal answer provided: The system was being designed to operate at a life/safety level for as long as needed. There were no other questions. All verbal comments were positive.

- December 4, 2014 – Public meeting attended by over 400 community members. Notice posted 30 days in advance. The microgrid project was presented in detail. There were no questions. All comments were positive and included thanks for developing emergency power resources.

- April 28, 2015 – City of Blue Lake City Council public meeting. Typical attendance ~30 people. Second presentation to City of Blue Lake City Council and residents on microgrid, solar, battery project and potential benefits in terms of emergency evacuation center/shelter with long-term emergency power for the greater community.
Section VI: Mitigation

Describe in detail any plans for mitigation of potential environmental impacts for the proposed project.

Below, and as noted in detail above, are planned mitigations of potential environmental impacts:

- The physical footprint of the project – the largest component of which is the solar array - is designed to be as compact as possible (current estimate is <2 acres) to preserve highest, best use of property. The project solar array will create a buffer between the wastewater treatment plant and any future plans for currently undeveloped lands to the northwest, north, and northeast of the project site. If in the phase between preliminary and final design (est. April – September 2015) the solar footprint and or battery size expands, a supplemental application will be submitted to Environmental Programs.

- The majority of construction will occur during weekday business hours, and the construction timeline will be condensed to a 4-month period. Noise, dust, debris, and other construction-related impacts will be strictly controlled and minimized, due to the project’s location near the Tribe’s economic enterprises, including a 102-room hotel and 50,000 square foot casino.

- The battery bank will be carefully installed to manufacturer specifications and designed with redundant catchment systems.

- All system components will be constructed and operated according to manufacturer specifications and all Blue Lake Rancheria tribal ordinances and all applicable regulation, including health and safety requirements.

- Overall this project has beneficial environmental impacts by reducing the Tribe’s use of fossil fuels, reducing greenhouse gas emissions, and providing emergency power for health and safety of regional residents.
Section VII: Signatures and Approvals

Once the report is completely filled out, sign and date and turn in to the Tribal Environmental Director. The Environmental Director will review, sign, and date it, adding comments if necessary, and turn it in to the Tribal Administrator with the decision indicated below. The Tribal Administrator will review the Environmental Assessment and Environmental Director’s decision and comments and sign and date the document indicating whether the decision reached is the same as that of the Environmental Director. When the report is complete it should be copied so that one copy can be filed with the Environmental Programs Office and the other with the project plans.

Person or persons who prepared this report:

Jana Ganion, Energy Director, Blue Lake Rancheria

Tribal Environmental Director:

Michelle Fuller 3/31/2015

Decision: \(\times\) FONSI

_____ EIS needed

Tribal Administrator:

Aula Ramsey 3/31/2015

Decision: \(\times\) FONSI

_____ EIS needed
An online Endangered Species Act species list is available below for your project area, represented by a list:

Arcata
1655
ARCATA, CA
(707)

Fish
and
Wildlife
HEINDON

The Endangered Species Act species list below is for planning purposes only -- it is not an official species list.

To save or print all Trust Resources lists on this page, click here:

To request an official species list, click here:

Project Location Map:

Note: The map is representative of the project area. Step 1: Select the Location page. What appears on this map is the Location map.

Project Counties:
Humboldt, CA
Project type: Department of Energy Operations

Endangered Species Act Species List (**USFWS Endangered Species Program**).

There are a total of 5 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the Has Critical Habitat column may or may not lie within your project area. See the Critical habitats within your project area section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

**Species that should be considered in an effects analysis for your project:**

<table>
<thead>
<tr>
<th>Birds</th>
<th>Status</th>
<th>Has Critical Habitat</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Spotted owl (<strong>Strix occidentalis caurina</strong>)</td>
<td>Threatened 🚫</td>
<td><strong>species info</strong></td>
<td><strong>Final designated critical habitat</strong></td>
</tr>
<tr>
<td>Population: Entire</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>western snowy plover (<strong>Charadrius nivosus</strong> ssp. <strong>nivosus</strong>)</td>
<td>Threatened 🚫</td>
<td><strong>species info</strong></td>
<td><strong>Final designated critical habitat</strong></td>
</tr>
<tr>
<td>Yellow-Billed Cuckoo (<strong>Coccyzus americanus</strong>)</td>
<td>Threatened 🚫</td>
<td><strong>species info</strong></td>
<td><strong>Proposed critical habitat</strong></td>
</tr>
<tr>
<td>Population: Western U.S. DPS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Flowering Plants**

<table>
<thead>
<tr>
<th>Western lily (<strong>Lilium occidentale</strong>)</th>
<th>Endangered 🚫</th>
<th><strong>species info</strong></th>
<th>Arcata Fish A</th>
</tr>
</thead>
</table>

**Mammals**

<table>
<thead>
<tr>
<th>Fisher (<strong>Martes pennanti</strong>)</th>
<th>Proposed</th>
<th><strong>species info</strong></th>
<th>Arcata Fish A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population: West coast DPS</td>
<td>Threatened 🚫</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Don't see a species you expect to see?

**Critical habitats within your project area:**

There are no critical habitats within your project area.

**FWS National Wildlife Refuges (**USFWS National Wildlife Refuges Program**).**

There are no National Wildlife Refuges found within the vicinity of your project.

**FWS Migratory Birds (**USFWS Migratory Bird Program**).**

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: [http://www.fws.gov/migratorybirds/RegulationsandPolicies.html](http://www.fws.gov/migratorybirds/RegulationsandPolicies.html).

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without
additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).


To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: [http://www.fws.gov/migratorybirds/CCMB2.htm](http://www.fws.gov/migratorybirds/CCMB2.htm).

For information about conservation measures that help avoid or minimize impacts to birds, please visit: [http://www.fws.gov/migratorybirds/CCMB2.htm](http://www.fws.gov/migratorybirds/CCMB2.htm).

**Migratory birds of concern that may be affected by your project:**

There are 20 birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](mailto:).  

<table>
<thead>
<tr>
<th>Species Name</th>
<th>Bird of Conservation Concern (BCC)</th>
<th>Species Profile</th>
<th>Seasonal Occurrence in Project Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen's Hummingbird</td>
<td>Yes</td>
<td>species info</td>
<td>Breeding</td>
</tr>
<tr>
<td>(<em>Selasphorus sasin</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bald eagle</td>
<td>Yes</td>
<td>species info</td>
<td>Year-round</td>
</tr>
<tr>
<td>(<em>Haliaeetus leucocephalus</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Oystercatcher</td>
<td>Yes</td>
<td>species info</td>
<td>Year-round</td>
</tr>
<tr>
<td>(<em>Haematopus bachmani</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burrowing Owl</td>
<td>Yes</td>
<td>species info</td>
<td>Year-round</td>
</tr>
<tr>
<td>(<em>Athena cunicularia</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cassin's Finch</td>
<td>Yes</td>
<td>species info</td>
<td>Year-round</td>
</tr>
<tr>
<td>(<em>Carpodacus cassini</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fox Sparrow</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Passerella iliaca</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lewis's Woodpecker</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Melanerpes lewis</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loggerhead Shrike</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Lanius ludovicianus</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-Billed curlew</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Numenius americanus</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marbled Godwit</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Limosa fedoa</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Species</td>
<td>Status</td>
<td>Data</td>
<td>Exclusions and Precautions</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Olive-Sided flycatcher</td>
<td>Yes</td>
<td>species info</td>
<td>Breeding</td>
</tr>
<tr>
<td>(<em>Contopus cooperi</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peregrine Falcon</td>
<td>Yes</td>
<td>species info</td>
<td>Year-round</td>
</tr>
<tr>
<td>(<em>Falco peregrinus</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purple Finch</td>
<td>Yes</td>
<td>species info</td>
<td>Year-round</td>
</tr>
<tr>
<td>(<em>Carpodacus purpureus</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red Knot</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Calidris canutus ssp. roselari</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-billed Dowitcher</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Limnodromus griseus</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-eared Owl</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Asio flammeus</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western grebe</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Aechmophorus occidentalis</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whimbrel</td>
<td>Yes</td>
<td>species info</td>
<td>Wintering</td>
</tr>
<tr>
<td>(<em>Numenius phaeopus</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Willow Flycatcher</td>
<td>Yes</td>
<td>species info</td>
<td>Breeding</td>
</tr>
<tr>
<td>(<em>Empidonax traillii</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yellow warbler</td>
<td>Yes</td>
<td>species info</td>
<td>Breeding</td>
</tr>
<tr>
<td>(<em>Dendroica petechia ssp. brewsteri</em>)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NWI Wetlands (USFWS National Wetlands Inventory).**

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate U.S. Army Corps of Engineers District.

<table>
<thead>
<tr>
<th>Data Limitations, Exclusions and Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Service’s objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.</td>
</tr>
</tbody>
</table>

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.
Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**IPaC is unable to display wetland information at this time.**
Hello Eli,

Please see below for answers to the questions from the Environmental Office. Please let me know if there are any questions.

Regarding circulation of the draft environmental review, we will forward you a local distribution list, and I am reaching out to regional governments to see if they have a list as well. Hope to have that compiled and to you by the end of this week, but please do let me know if you need it earlier.

**Air Quality**

1. What types and numbers of equipment would be used during construction activities?

   Ready mix truck (for battery storage system foundation - 1–2 days total)
   Skid steer
   Mini excavator
   Grader
   Water truck

2. Would Best Management Practices (BMPs) be implemented to reduce effects to air quality (e.g., dust) during construction activities?

   Yes, a watering truck would be onsite and conduct watering daily (or more often as needed, unless it is raining).

**Aesthetics**

1. Would the PV panels be placed in a fixed position?

   Yes. The design is that the solar panels are in a fixed position on the ground, and the panels themselves are fixed on their bases (i.e. they don’t move to track the sun).

**Soil and Water (and Biology)**

1. Would BMPs for erosion control be implemented during grading to protect nearby streams and rivers?

   Best management practices for erosion control have been thoroughly discussed with the construction contractor, Kernen Construction and will be applied according to site conditions at time of construction. Kernen will implement straw waddles, place straw over any graded areas, and/or construct silt fences. There will be relatively low risk of erosion in the summer months, but BMPs will be applied conservatively to
Traffic

1. What is the peak number of construction workers and the average number of construction workers?

Average number of construction workers: 5

Peak number of construction workers: 10

2. For the 5 daily vehicles anticipated during construction, please provide a breakdown of the types of vehicles (including regular commuter vehicles for construction workers, delivery vehicles, construction vehicles, etc.).

**Construction Vehicles:**
Two (2) of the following vehicles at any given time:

- Ready mix truck
- Skid steer
- Mini excavator
- Grader
- Water truck

**Regular Commuter Vehicles:**
0-3 per day

Notes: Because the main site contractors proposed for this project, Kernen Construction is <2 miles from the Rancheria site, their construction workers typically drive the actual equipment to the site (as applicable), and therefore have few if any commuter cars. The majority of the work will be done in sequence, that is it is anticipated that typically one vendor will be working onsite at a time. The existing casino/hotel parking lots, and the existing main loading dock/delivery area (for the entire Rancheria) are immediately adjacent to the project site and currently utilized by 2,000 vehicles a day. Any additional vehicles would be instructed to use these non-project areas to access the site and park.

**Delivery Vehicles:**
0-3 per day – and these would use the existing main loading dock/delivery area immediately adjacent to the project site and utilized by 2,000 vehicles a day.

Noise

What BMPs would be used to ensure “that noise will be strictly controlled and minimized” (Section VI: Mitigation)?

The Blue Lake Rancheria has a Nuisance / Noise Ordinance that applies to all activities. All equipment will be in compliance with all applicable noise regulations, and construction noise, any loud exhaust systems, and back-up indicators will be measured using decibel readers. The Tribe regularly conducts and tracks decibel readings for activities on the Rancheria to ensure noise control, and noise export off the Rancheria. It
should also be noted that the site is adjacent to an existing biomass energy system with compressors and
dust collection equipment, a 1MW diesel generator that is in routine use, and the main loading
dock/delivery area that handles 2,000 vehicles (including large delivery trucks) daily (source: Blue Lake
Rancheria Transportation Plan, 9/30/2011). On the north side of the project is California Highway 299,
which handles 1,100 vehicles per hour (source: http://traffic-counts.dot.ca.gov/2013all/Route280-
405.html). The additional noise anticipated from this project will be negligible, on both a standalone and
cumulative basis.

Many thanks,

Jana

Jana Ganion
Energy Director
Blue Lake Rancheria
jganion@bluelakerancheria-nsn.gov
707.668.5101 x1044

www.bluelakerancheria-nsn.gov

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APPENDIX C:
ATTACHMENT 8 – CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) COMPLIANCE FORM
ATTACHMENT 8
California Environmental Quality Act (CEQA) Compliance Form

All applicants must complete and sign this form, regardless of whether the proposed activity is considered a “project” as defined below.

The California Environmental Quality Act (CEQA) (Public Resources Code §§ 21000 et seq.) requires public agencies to identify the significant environmental impacts of their actions and to avoid or mitigate them, if feasible.¹ Under CEQA, an activity that may cause either a direct or reasonably foreseeable indirect physical change in the environment is called a “project.”² Approval of a contract, grant, or loan may be a “project” under CEQA if the activity being funded may cause a direct or reasonably foreseeable indirect physical change in the environment. Agencies must comply with CEQA before they approve a “project.” This may require preparing one or more of the following documents:

- A Notice of Exemption (if the project is exempt from CEQA);³
- An Initial Study (if the project may have a significant effect on the environment);⁴
- A Negative Declaration (if the Initial Study shows that the project will not have a significant effect on the environment) or a Mitigated Negative Declaration (if any significant effects identified by the Initial Study can be avoided or mitigated to a level of insignificance);⁵ or
- An Environmental Impact Report (if there is substantial evidence that the project will have significant effects).⁶

The Lead Agency is the public agency that has the greatest responsibility for preparing environmental documents under CEQA, and for carrying out, supervising, or approving a project. Where the award recipient is a public agency, the Lead Agency is typically the recipient. Where the award recipient is a private entity, the Lead Agency is the public agency that has greatest responsibility for supervising or approving the project as a whole.⁷ When issuing contracts, grants, or loans, the Energy Commission is typically a “Responsible Agency” under CEQA, which means that it must make its own CEQA findings based on review of the Lead Agency’s environmental documents. If the Energy Commission is the only public agency with responsibility for approving the project, then the Energy Commission must act as the Lead Agency and prepare its own environmental documents before approving the project.

This form will help the Energy Commission determine what type of CEQA review, if any, is necessary before it can approve the award, and which agency will perform that review as Lead Agency. It may also help to the applicant determine the CEQA process necessary for the proposed project. Please answer all questions as completely as possible. The Energy Commission may request additional information in order to clarify responses provided on this form.

¹ For a brief summary of the CEQA process, visit http://ceres.ca.gov/ceqa/summary.html.
² California Public Resources Code § 21065.
³ 14 California Code of Regulations (CCR) §§ 15061 and 15062.
⁴ 14 CCR § 15063.
⁵ 14 CCR §§ 15070 et seq.
⁶ 14 CCR §§ 15080 et seq.
⁷ 14 CCR §§ 15050 and 15051. The Lead Agency typically has general governmental powers (such as a city or county), rather than a single or limited purpose (such as an air pollution control district).
ATTACHMENT 8
California Environmental Quality Act (CEQA) Compliance Form

1. What are the physical aspects of the project proposed activities? (Check all that apply and provide a brief description of work, including the size or dimensions of the project).

<table>
<thead>
<tr>
<th>Type of Project</th>
<th>Yes</th>
<th>No</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction (including grading, paving, etc.)</td>
<td>✗</td>
<td></td>
<td>Grading of est. 2 acres of dirt/scrub land for ground-mounted solar array footings. Paving for solar array footings est. 3 square ft x 20 footings. Paving for foundation for battery storage building, est. 625 sq. ft. pad. Paving for ground-mounted recloser est. 100 sq. ft. pad.</td>
</tr>
<tr>
<td>Trenching</td>
<td>✗</td>
<td></td>
<td>Trench and conduit for est. 800 linear feet of cables from solar array and battery to existing electrical infrastructure.</td>
</tr>
<tr>
<td>New or replaced pipelines</td>
<td></td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Modification or conversion of a facility</td>
<td></td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>New or modified operation of a facility or equipment</td>
<td>✗</td>
<td></td>
<td>New and modified electrical equipment to connect and enable microgrid controller technology at casino, hotel, and tribal government facilities.</td>
</tr>
<tr>
<td>On-road demonstration</td>
<td></td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Paper study (including analyses on economics, feedstock availability, workforce availability, etc.)</td>
<td>✗</td>
<td></td>
<td>Solar feasibility study.</td>
</tr>
<tr>
<td>Laboratory research</td>
<td></td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Temporary or mobile structures (skid-mounted)</td>
<td></td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>Design/Planning</td>
<td>✗</td>
<td></td>
<td>Solar system vendor designs. Battery system vendor designs. Finalize site plan layout, conduct civil and electrical engineering, generation of plans and specifications.</td>
</tr>
<tr>
<td>Other (describe and add pages as necessary)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Where is are the project proposed activities located or where will it they be located? (Attach additional sheets as necessary.)

<table>
<thead>
<tr>
<th>Street Address</th>
<th>City/ County</th>
<th>Type of Work to Be Completed at Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Lake Rancheria</td>
<td>Blue Lake/Humboldt</td>
<td>Installation of 500kW ground-mounted solar array; installation of ground-mounted 800kWh battery system; underground conduit utility and power connections between these two systems and existing power infrastructure onsite; ground-mounted recloser and associated equipment.</td>
</tr>
</tbody>
</table>

July 2014
ATTACHMENT 8
California Environmental Quality Act (CEQA) Compliance Form

3. Will the project proposed activities potentially have environmental impacts that trigger CEQA review? (Check a box and explain for each question.)

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>Unsure</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the project site environmentally sensitive?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the project site on agricultural land?</td>
<td></td>
<td></td>
<td></td>
<td>There are no agricultural operations on this land.</td>
</tr>
<tr>
<td>Is this project part of a larger project?</td>
<td></td>
<td></td>
<td></td>
<td>If this project is implemented, the Tribe is considering expanding the microgrid to encompass all of its trust lands, including residences, a community well, fueling station and other facilities.</td>
</tr>
<tr>
<td>Is there public controversy about the proposed project or larger project?</td>
<td></td>
<td></td>
<td></td>
<td>The region is in support of this project because it provides critical infrastructure operability in emergency situations.</td>
</tr>
<tr>
<td>Will historic resources or historic buildings be impacted by the project?</td>
<td></td>
<td></td>
<td></td>
<td>There are no historic resources or buildings on this land. The Tribal Historic Preservation Office will conduct a review pursuant to the Environmental Assessment (described below).</td>
</tr>
<tr>
<td>Is the project located on a site the Department of Toxic Substances Control and the Secretary of the Environmental Protection have identified as being affected by hazardous wastes or cleanup problems?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Will the project generate noise or odors in excess of permitted levels?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Will the project increase traffic at the site, and by what amount?</td>
<td></td>
<td></td>
<td></td>
<td>Temporary, intermittent trucks for construction purposes will be traveling to/from the site. 2-5 trucks per week.</td>
</tr>
</tbody>
</table>

4. Will the project proposed activities require discretionary permits or determinations, as listed below?

<table>
<thead>
<tr>
<th>Type of Permit</th>
<th>No.</th>
<th>Modified</th>
<th>New</th>
<th>Approving Public Agency</th>
<th>Reason for Permit, Summary of Process, and Anticipated Date of Issuance</th>
</tr>
</thead>
</table>
### ATTACHMENT 8
California Environmental Quality Act (CEQA) Compliance Form

<table>
<thead>
<tr>
<th>Type of Permit</th>
<th>No.</th>
<th>Modified</th>
<th>New</th>
<th>Approving Public Agency</th>
<th>Reason for Permit, Summary of Process, and Anticipated Date of Issuance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Quality Permit</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conditional Use Permit or Variance</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building Expansion Permit</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Waste Permit</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Rezoning</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authority to Construct</td>
<td>☑</td>
<td></td>
<td></td>
<td>Blue Lake Rancheria, California</td>
<td>Reason for permit: the Tribe must authorize building projects on the Rancheria. Process: Tribe has adopted the current UBC and IBC as modified by the State of California. Permit request is presented to the Tribal Council and accomplished with Tribal Resolution. All development must comply with the Tribe's adopted building codes and Tribal ordinances. Anticipated date of issuance is 2/1/15.</td>
</tr>
</tbody>
</table>

5. Of the agencies listed in #4, have you identified and contacted the agency that will be the lead CEQA agency on the project?

☑ Yes. Provide the name of and contact information for the lead agency.
Michelle Fuller, Director, Environmental Programs Division, Blue Lake Rancheria, California PO Box 428, Blue Lake, CA 95525. Telephone 707.668.5101 x1036.

☐ No. Explain why no contact has been made, and/or a proposed process for making contact with the lead agency.
ATTACHMENT 8
California Environmental Quality Act (CEQA) Compliance Form

6. Has the any agency listed in #4 prepared environmental documents (e.g., Notice of Exemption, Initial Study/Negative Declaration/Mitigated Negative Declaration, Environmental Impact Report, Notice of Determination) under CEQA for the proposed project, or (if the documents have not been prepared) indicated that it will prepare such documents?

☐ Yes. Provide the name of and contact information for the agency.


Please complete the following and attach the CEQA document to this worksheet. (For “Not a project,” the title of the document may be an e-mail, resolution, or letter.)

<table>
<thead>
<tr>
<th>Type of Environmental Review</th>
<th>Title of Environmental Document</th>
<th>State Clearinghouse Number</th>
<th>Completion Date</th>
<th>Planned Completion Date (must be prior to approval of award)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Not a project&quot;</td>
<td>N/A</td>
<td></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Exempt (Resolution of public agency or Agenda Item approving Exemption)</td>
<td>N/A</td>
<td></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Exempt (Notice of Exemption)</td>
<td>N/A</td>
<td></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Initial Study</td>
<td></td>
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<tr>
<td>Negative Declaration</td>
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<tr>
<td>Mitigated Negative Declaration</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notice of Preparation</td>
<td></td>
<td></td>
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<tr>
<td>Environmental Impact Report</td>
<td></td>
<td></td>
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<tr>
<td>Master Environmental Impact Report</td>
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<tr>
<td>Notice of Determination</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEPA Document (Environmental Assessment, Finding of No Significant Impact, and/or)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ATTACHMENT 8
California Environmental Quality Act (CEQA) Compliance Form

<table>
<thead>
<tr>
<th>Type of Environmental Review</th>
<th>Title of Environmental Document</th>
<th>State Clearinghouse Number</th>
<th>Completion Date</th>
<th>Planned Completion Date (must be prior to approval of award)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Impact Statement)(^8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

☒ No. If any of the agencies identified in #4 have indicated that they will prepare CEQA documents, explain why no document has been prepared. Propose a process for obtaining lead agency approval and the estimated date for that approval (must occur before the Energy Commission will approve the award).

This project will occur entirely on trust lands of the Blue Lake Rancheria, California, a federally recognized Native American tribal government. The Tribe is the lead agency with the authority to issue approval for major tribal actions. Process: the Tribe has initiated a new Environmental Assessment (EA) for this project, which is being conducted by Blue Lake Rancheria Environmental Programs Department, in compliance with the Tribe's Environmental Policy Ordinance 02-2000, and all other applicable law. Estimated date of approval of the EA is 2/1/15.

Certification: I certify to the best of my knowledge that the information contained in this form is true and complete. I further certify that I am authorized to complete and sign this form on behalf of the proposing organization.

Name: Jana Ganion
Title: Energy Director

Signature: [Signature]
Phone Number: 707.668.5101 x1044
Email: jganion@bluelakerancheria-nsn.gov
Date: 11/4/14

\(^8\) For additional information about NEPA (the National Environmental Policy Act, 42 U.S.C. 4321 et seq.), see: [http://www.epa.gov/compliance/basics/nepa.html](http://www.epa.gov/compliance/basics/nepa.html)
Hi Eli,

Thanks for this clarification.

There is no planned water use during operation. We are not planning on installing a water line to the array field for panel washing. In our climate we get enough rain so that panel washing is not typically required. The Tribe has an existing 1,500 gallon water truck that we could use if panel washing becomes necessary, and the water to fill the truck will come from existing water sources on the Rancheria.

Thank you,

Jana

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Hi Eli,

Let me review this and get back with you asap.

My initial thinking is that there is no water used during operation, but I will double check.

Best,

Jana

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Hi Jana, the team working on the environmental review has an additional water question:

We are assuming that no water will be used during operation; however given recent court cases, we should confirm that this is true. If water is being used during operation, we’ll need to know the source and the approximate amount.

Thanks
-Eli
Hi Eli,

Thank you. I would like to offer to join in on the call in the morning if that is acceptable to you both, as I can help gather posting sites, etc.

For example, the Blue Lake Rancheria has 3 established posting sites and we can certainly post in additional sites in/around the project area here. The City of Blue Lake also has 3 public posting sites that they typically use.

Please let me know – I can participate tomorrow anytime before noon.

All the best,

Jana

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CEQA is pretty specific about the processes that we will follow to fulfill public review requirements for a Neg Dec. I have those steps outlined. The local distribution list will be very helpful, so thank you for working on that. For the other public review requirements there are a few actions that we might need local help with, like posting the Notice of Intent in and around the project area.

David, are you available tomorrow morning to discuss the public review and steps, including the role of the applicant (in this case SERC) and the lead agency (in this case the CEC)?

We are getting much closer to pulling all of this together and I appreciate your persistence and attention.

-Eli

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From: Jana Ganion [mailto:jana.ganion@bluelakerancheria-nsn.gov]
Sent: Tuesday, April 21, 2015 2:00 PM
To: Harland, Eli@Energy
Cc: David.Carter@humboldt.edu
Subject: Re: BLR Microgrid and CEQA

Hello Eli,

Please see below for answers to the questions from the Environmental Office. Please let me know if there are any questions.

Regarding circulation of the draft environmental review, we will forward you a local distribution list, and I am reaching out to regional governments to see if they have a list as well. Hope to have that compiled and to you by the end of this week, but please do let me know if you need it earlier.

Air Quality
1. What types and numbers of equipment would be used during construction activities?

   Ready mix truck (for battery storage system foundation - 1–2 days total)
   Skid steer
   Mini excavator
   Grader
   Water truck

2. Would Best Management Practices (BMPs) be implemented to reduce effects to air quality (e.g., dust) during construction activities?

   Yes, a watering truck would be onsite and conduct watering daily (or more often as needed, unless it is raining).

Aesthetics
1. Would the PV panels be placed in a fixed position?
Yes. The design is that the solar panels are in a fixed position on the ground, and the panels themselves are fixed on their bases (i.e. they don’t move to track the sun).

**Soil and Water (and Biology)**

1. Would BMPs for erosion control be implemented during grading to protect nearby streams and rivers?

Best management practices for erosion control have been thoroughly discussed with the construction contractor, Kernen Construction and will be applied according to site conditions at time of construction. Kernen will implement straw waddles, place straw over any graded areas, and/or construct silt fences. There will be relatively low risk of erosion in the summer months, but BMPs will be applied conservatively to ensure zero erosion.

**Traffic**

1. What is the peak number of construction workers and the average number of construction workers?

   **Average number of construction workers:** 5

   **Peak number of construction workers:** 10

2. For the 5 daily vehicles anticipated during construction, please provide a breakdown of the types of vehicles (including regular commuter vehicles for construction workers, delivery vehicles, construction vehicles, etc.).

   **Construction Vehicles:**

   Two (2) of the following vehicles at any given time:

   Ready mix truck
   Skid steer
   Mini excavator
   Grader
   Water truck

   **Regular Commuter Vehicles:**

   0-3 per day

   Notes: Because the main site contractors proposed for this project, Kernen Construction is <2 miles from the Rancheria site, their construction workers typically drive the actual equipment to the site (as applicable), and therefore have few if any commuter cars. The majority of the work will be done in sequence, that is it is anticipated that typically one vendor will be working onsite at a time. The existing casino/hotel parking lots, and the existing main loading dock/delivery area (for the entire Rancheria) are immediately adjacent to the project site and currently utilized by 2,000 vehicles a day. Any additional vehicles would be instructed to use these non-project areas to access the site and park.
**Delivery Vehicles:**
0-3 per day – and these would use the existing main loading dock/delivery area immediately adjacent to
the project site and utilized by 2,000 vehicles a day.

**Noise**

1. What BMPs would be used to ensure “that noise will be strictly controlled and minimized” (Section VI: Mitigation)?

The Blue Lake Rancheria has a Nuisance / Noise Ordinance that applies to all activities. All equipment will be
in compliance with all applicable noise regulations, and construction noise, any loud exhaust systems, and
back-up indicators will be measured using decibel readers. The Tribe regularly conducts and tracks decibel
readings for activities on the Rancheria to ensure noise control, and noise export off the Rancheria. It
should also be noted that the site is adjacent to an existing biomass energy system with compressors and
dust collection equipment, a 1MW diesel generator that is in routine use, and the main loading
dock/delivery area that handles 2,000 vehicles (including large delivery trucks) daily (source: Blue Lake
Rancheria Transportation Plan, 9/30/2011). On the north side of the project is California Highway 299,
which handles 1,100 vehicles per hour (source: http://traffic-counts.dot.ca.gov/2013all/Route280-
405.html). The additional noise anticipated from this project will be negligible, on both a standalone and
cumulative basis.

Many thanks,

Jana

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