

Humboldt County

Comprehensive Action Plan for Energy

2019 UPDATE - PRELIMINARY DRAFT

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Executive Summary

SECTION TO BE UPDATED

Consistent with Humboldt County's General Plan, the County of Humboldt recognizes the Redwood Coast Energy Authority (RCEA) as the regional energy authority to foster, coordinate, and facilitate countywide strategic energy planning, implementation, and education through a Comprehensive Action Plan for Energy (CAPE). This action plan consists of implementation measures specific to the functions of RCEA as the regional energy authority for Humboldt County and in alignment with the mission and purpose stated in RCEA's Joint Powers Agreement, which is to:

Develop and implement sustainable energy initiatives that reduce energy demand, increase energy efficiency, and advance the use of clean, efficient and renewable resources available in the region.

The CAPE strategies target the following objectives:

Regional Energy Planning & Coordination: Facilitate coordinated strategic energy planning within Humboldt County, provide a forum for addressing countywide energy issues, and assist local jurisdictions with completing greenhouse gas inventories, climate action plans, and general plan energy elements.

Energy Reliability & Security: Coordinate with utility providers and other local governments on energy emergency planning and response, evaluate transmission and distribution systems, and conduct a climate change risk assessments and develop adaptation plans.

Economic Development: Support the development of emerging energy technologies, attract and support energy-sector businesses and ventures, and provide training and workforce development assistance for jobs in the energy field.

Built Environment Efficiency: Develop and implement programs which encourage energy efficiency and renewable energy retrofits in existing buildings, and support local implementation of state-wide energy efficiency standards and goals.

Education: Through a variety of channels, provide the community with comprehensive education and information on energy conservation, energy planning, renewable energy, and energy-efficiency.

Water & Waste: Support water and waste conservation initiatives that will result in reduce energy demand and or renewable energy generation.

Transportation: Encourage energy-efficient, health-promoting modes of travel such as walking, bicycling, and public transit, and support the adoption of alternative fuels.

Energy Generation & Utility Services: Promote policies which seek to meet local energy needs with a diversity of renewable energy resources, distributed generation, and cogeneration.

This action plan shall be periodically updated by the RCEA Board and presented to the Humboldt County Board of Supervisors for review.

Introduction

ENERGY FUELS OUR EVERYDAY LIVES

SECTION TO BE UPDATED

In Humboldt County, as in all parts of the United States, we depend on energy 24 hours a day, and we continuously benefit from direct and indirect use of energy resources. Energy is so pervasive in our daily lives that it can sometimes be taken for granted. From the sun we draw heat, light, and solar power; we depend on it to grow our food, forests, flowers, etc. We depend on fossil fuels to get us to work, school, the local shops, and the hospital; to transport our food, commodities, mail, and even garbage; we depend on it to visit exotic places by plane (and to get to the airport), or to visit a friend by car. Electricity enables us to work after the sun goes down; we depend on it to light our offices, classrooms, and streets; to keep our food cold and our ice cream frozen; to pump water through pipes; and to transmit information during this electronic age. Energy in a diversity of forms fuels our industries and business ventures: from powering lumber mills to dairy farms; from firing ceramics to pizzas, and from brewing beer to baking bread. Energy generation and transmission is also an industry in and of itself. Clearly, reliance on energy resources characterizes a large part of our everyday lives.

The production and consumption of energy also affects our daily lives in more indirect ways, particularly with regard to the environment. The burning of fossil fuels has led to damaging environmental effects such as acid rain, smog, water pollution, and global warming. Exploratory drilling and extraction of non-renewable energy sources (such as coal, petroleum, and natural gas), and their attendant infrastructure, has resulted in the degradation of other natural resources, for example forests, coastal communities, and rainforests. Although these areas may be far away, the environmental impacts can reach Humboldt County.

In Humboldt County, energy is used as a transportation fuel and as electrical and heat energy in homes, businesses, industries, and agriculture. In 2010 it is estimated that Humboldt County spent \$460 million to meet local energy demands, the majority of which left the county. Approximately half of the energy was used as a transportation fuel (gasoline and diesel), with large amounts also used to meet end use electrical demands and end use natural gas heating demands. Primary energy sources were comprised mainly of natural gas, gasoline, diesel, and biomass (wood waste and firewood).

REDWOOD COAST ENERGY AUTHORITY MISSION AND PURPOSE

The purpose of the Redwood Coast Energy Authority is to develop and implement sustainable energy initiatives that reduce energy demand, increase energy efficiency, and advance the use of clean, efficient and renewable resources available in the region for the benefit of the Member agencies and their constituents. To further that purpose, the Redwood Coast Energy Authority will work toward the following goals:

- A. To lead, coordinate and integrate regional efforts that advance secure, sustainable, clean and affordable energy resources.
- B. To develop a long-term sustainable energy strategy and implementation plan.
- C. To increase awareness of, and enhance access to, energy conservation, energy efficiency, and renewable energy opportunities available to the region.
- D. To add value to, but not duplicate, energy services offered by utilities and others serving the region in a manner that does not conflict with acting as a community choice aggregator.
- E. To keep key decision makers and stakeholders informed of policy, regulatory, and market changes that are likely to impact the region.
- F. To support research, development, demonstration, innovation, and commercialization of sustainable energy technologies by public and private entities operating in Humboldt County.
- G. To develop regional capabilities to respond to energy emergencies and short-term disruptions in energy supply, infrastructure, or markets that could adversely affect Humboldt residents and businesses.

The CAPE is intended to support achieving these goals through strategies that specifically address: Regional Energy Planning & Coordination, Integrated Demand Side Management, Low-Carbon Transportation, Energy Reliability & Security, Economic Development, Built Environment Efficiency, Education, Water & Waste, Transportation, and Energy Generation & Utility Services.

VISION STATEMENT

The below vision statement was developed through the public comment process for the original draft of the Energy Element prepared by RCEA. It expresses the community qualities and characteristics that the CAPE aspires to achieve, expressed as how Humboldt County could be described in 2030.

In 2030...

Humboldt County is no longer a net importer of energy. We achieve a high degree of energy independence and self-sufficiency through high levels of energy conservation and efficiency combined with locally-produced and -managed energy generation. Most of our energy comes from renewable sources. Significantly less money spent on energy leaves the county.

Individual communities have developed greater energy self-sufficiency and independence as has the county overall. Citizens have a diversity of choices for how to meet their energy needs. We have much more local control over energy prices. We have been able to readily adapt to any major external changes in energy supply or technology.

Our rate of energy consumption is level, due to increasing conservation and efficiency to offset increases in growth-related demand.

Our overall quality of life is as good as or better than it was in 2005. The population is healthier as a result of leading energy-conserving lifestyles. It is safe, pleasant, economically favorable, and typical to have a lifestyle that doesn't consume much energy.

Energy conservation education has reached, and continues to reach, effectively, everyone in the county.

Energy considerations and decisions are integrated with all other decision-making arenas.

The County is energy efficient through neighborhood design. Good community planning has reduced sprawl. There are fewer automobiles and there is less automobile dependence. Public transportation is conveniently available and well utilized and walking, bicycling and other non-automobile forms of transportation are commonly used. There is much less consumption of energy from non-renewable sources for transportation.

All buildings are energy efficient. All new construction is done in the most energy efficient manner, starting with building design. All existing buildings have been upgraded to be more efficient. Energy efficiency is integral to building standards, which have flexibility and include meaningful incentives. Many homes and businesses produce more energy than they consume.

The County is a thriving research and development center and incubator for energy technology and related manufacturing, which is a stable source of local jobs.

Draft 2019 Strategies Update

Regional Energy Planning & Coordination

RCEA will take a leadership role to develop and advance strategic regional energy goals through economic development, funding, planning efforts, and education. This work will be done in coordination with RCEA's member governments, other local public agencies, local tribes, and other public and private stakeholders.

ECONOMIC DEVELOPMENT

Attract Energy-related Business. Collaborate with local economic development entities to attract technology developers, manufacturers, and energy service providers to locate operations in the County when appropriate.

Support Proactive Energy-related Business Development. Collaborate with local jurisdictions to identify and pre-assess locations and facilities for energy-related business ventures.

Support Energy-sector Workforce Development. Work with other local entities to provide training and continuing education that develops and maintains a qualified local workforce available to implement energy efficiency upgrades, renewable energy projects, and advanced-vehicle technology deployment.

FUNDING

Develop Regional Energy Funding Mechanisms. Offer support and act as the fiscal agent and funding clearinghouse for countywide energy programs.

Pursue Cap and Trade Auction Proceeds. Work regionally to access Cap and Trade auction proceeds and other State funding mechanisms to ensure effective, efficient, coordinated, and equitable resource allocation in the North Coast Region.

Develop Job Development Incentives. Collaborate with local economic development entities to identify opportunities for developing jobs in the field of energy conservation, efficiency, and renewable sources.

Implement Energy Project Financing. Work with local economic development entities and/or financial institutions to develop and implement financing programs that enable residents and businesses to implement energy efficiency and renewable energy projects.

Facilitate Financing Mechanisms. Facilitate Property Assessed Clean Energy (PACE) and other financing programs that access the needed capital to deploy regional energy independence strategies.

Develop Local Energy Investment Programs. Work with local economic development entities and financial institutions to develop programs and resources that facilitate local community investment in and/or ownership of energy efficiency and renewable energy projects.

PLANNING

Support Carbon Sequestration. Support the development and deployment of mechanisms for retaining carbon in region's abundant natural areas and working lands.

Assist with Climate Action Planning. Work with local jurisdictions to complete greenhouse gas inventories, set greenhouse gas reduction targets, and develop climate action plans.

Support Climate Change Adaptation. Work with other local entities to conduct a climate change risk assessment and develop an adaptation plan consistent with the best-practices guidance provided by the California Natural Resources Agency and California Emergency Management Agency.

Support Countywide Strategic Energy Planning. Coordinate an effective energy strategy based on self-sufficiency, development of renewable energy resources and energy conservation that is actively implemented countywide through Climate Action Plans, General Plans and the Redwood Coast Energy Authority's Comprehensive Energy Action Plan.

Encourage Adoption of Energy Elements. Encourage the adoption of energy elements in other local and regional jurisdictions. Periodically review local Energy Elements and recommend updates, as necessary, to reflect changing technologies for the generation, transmission, and efficient use of energy.

Assist with Energy Emergency Response Procedures. Assist the Humboldt County Office of Emergency Services in the preparation of energy emergency response procedures for the Humboldt County Emergency Response Plan.

Encourage Energy Policies and Plans. Encourage other jurisdictions and entities, including the cities in Humboldt County, to adopt and implement sound energy plans and policies, to include energy elements and/or energy policies in their general plans and ordinances. Advocate and disseminate energy planning strategies, policies, and other information.

EDUCATION

Maintain an Energy Resource Center. Operate an energy resource center open to the public and provide energy conservation, energy planning, renewable energy, and energy-efficient building design and retrofit information.

Hold Regional Energy Forums. Serve as a forum for addressing countywide energy issues.

Develop Public Displays. Encourage and assist development of educational displays for exemplary renewable energy and distributed energy systems installed throughout Humboldt County. Displays should provide county residents and businesses with information on how the systems work and how well they perform; and should inform county residents about the importance, benefits, and associated impacts of developing local energy resources.

Provide Energy Efficiency Education and Training. Provide community education on energy issues, including the benefits of reduced energy consumption, and increased energy efficiency. Collaborate with schools and colleges for energy-related research, education, and conservation practices.

Integrated Demand Side Management

RCEA will use an Integrated Demand Side Management (IDSM) approach to match and enhance customer energy use with intermittent clean and renewable energy supplies. An additional priority will be placed on energy resiliency and independence.

INTEGRATED DEMAND SIDE MANAGEMENT STRATEGIES

Support Member Agency and Local Government Energy Management. Support member agencies in managing their energy consumption. RCEA will support varying activities that reduce and align energy use with available clean and renewable supplies to reduce costs while aligning to performance-based action plans and Greenhouse Gas Emission Reduction goals. Additional activities will be prioritized where they support energy resiliency and independence.

Support Implementation of Codes and Standards. Support the local implementation of Title 24 building energy codes, Title 20 appliance efficiency standards and individual projects that strive to achieve energy efficiencies that exceed state or local requirements. Support the consideration and adoption of above code energy ordinances.

Promote No Regrets Energy Efficiency, Solar and Storage Permitting. Support local ordinances that streamline permitting processes for energy efficiency, solar and storage technologies.

Assist with Facility Benchmarking. Assist local governments with facility benchmarking to evaluate and track the energy performance of non-residential buildings.

Support Zero-Net–Energy Standards. Support the State’s goals related to residential and commercial net-zero-energy standards along with other green building standards that align to RCEA’s IDSM strategies.

Conduct Community Engagement. Provide community facing information and resources that will support informed decision making as relating to customer energy use.

Support Energy Assessments. Support and encourage full knowledge of the costs and benefits (including product stewardship) of energy efficiency, conservation, generation and storage activities through assessments.

Integrate Distributed Energy Resources. Support, promote and integrate distribution-connected generation, energy storage, energy efficiency, electric vehicle and demand response technologies into new and existing customer facing programs.

Integrate a Distributed Energy Resource Management System. Integrate distributed energy resources into a unified system that can aggregate or automate demand response activities.

Support and Deploy Microgrids. Support and deploy energy microgrids, focusing on critical infrastructure and community facilities, that through onsite generation, energy storage, and advanced control systems provide energy resiliency and emergency-response capabilities as well as ongoing economic and environmental benefits.

Use Advanced Metering Infrastructure. Use advanced metering infrastructure to make informed, data driven program decisions.

ENERGY EFFICIENCY & CONSERVATION

RCEA will support energy efficiency and conservation as core strategies toward achieving the program’s environmental, economic, and community goals. Where feasible, energy efficiency technologies will be controllable and integrated as a distributed resource. RCEA will:

Support electrification. Prioritize new programs and alterations to existing services that promote the use of air-source heat pump domestic hot water and space heaters, induction stoves and clothes dryers.

Encourage Energy-Efficient Equipment. Encourage the use of the most energy-efficient equipment for space and water heating, ventilation, lighting, refrigeration, and air conditioning in all buildings and developments, including residential and commercial facilities.

Promote Performance Contracting. Promote residential and commercial performance contracting that is consistent with current best practices for energy efficiency and environmentally sound construction techniques.

Develop and Support Behavioral, Commissioning and Operations (BROs). Develop, promote and support programs that promote conservation, building system commissioning and operational changes that reduce or change the time of energy use.

Replace Plug Loads. Replace existing plug load devices and install line signaling smart technologies that save energy and provide an integrated solution that aligns with demand response and storage measures. Example include internet of things enabled lighting, water and space conditioning, dish and clothes washing and refrigeration.

DEMAND RESPONSE

RCEA will support and prioritize demand response programs that give ratepayers an opportunity to play a role in balancing energy load with renewable energy supply. Demand response programs and offerings will, where possible, integrate with distribution connected efficiency, solar and storage measures.

Support Time of Use. Notify, support and enable action from customers who express an interest in load shifting or shaving to reduce evening hour coincident demand.

Provide and Support Peak Day Pricing. Notify and support customer energy use changes during summer peak day events.

Enable Automated Demand Response. Install electrification, efficiency, and storage technologies that automatically reduce energy use during demand response events.

Implement Grid Connected Buildings. Implement grid connected buildings that allow for the curtailment of loads in descending order of priority.

DISTRIBUTED GENERATION & STORAGE

RCEA will support the deployment of distribution connected solar and storage technologies as core strategies toward achieving the program's environmental, economic, and community goals.

Administer and Implement the Public Agency Solar Program. Continue to implement the solar and energy-storage technical assistance program for public agencies; integrate grid-connected resources and microgrids as feasible.

Administer and Implement the Community Solar and Storage Program. Evaluate, design and launch community solar and storage program services that support the increased adoption of grid-connected solar and storage technologies.

Integrate Vehicle to Grid Storage. Integrate vehicle to grid storage solutions with transportation and IDSM goals and objectives.

Low-carbon Transportation

RCEA will decarbonize regional transportation through efforts to reduce vehicle miles travelled, increase advanced fuel vehicles adoption and fuel efficiency, and expand advanced fuel infrastructure.

REDUCE VEHICLE MILES TRAVELED

Strengthen Broadband Infrastructure. Support efforts to strengthen rural regional broadband infrastructure to facilitate remote access to educational and business opportunities, and deploy advanced, resilient grid management technology and integrated energy efficiency and demand response solutions.

Encourage Transportation-efficient Land Use Planning. Encourage infill, transit-oriented development, and walkable and bikeable communities through thoughtful zoning and land-use planning process.

Facilitate Multi-modal Transportation Infrastructure. Support improving multi-modal transportation options through regional trail networks, transit infrastructure, and complete streets infrastructure strategies that support walking, biking, and the use of public transportation.

INCREASE ADVANCED FUEL VEHICLE ADOPTION & FUEL EFFICIENCY

Electrify Transportation. Encourage local government and private fleets to maximize the use of low-carbon vehicles. Provide local incentives for electric vehicles.

Promote Advanced Fuels. Encourage the use of non-fossil sources of advanced fuels that reduce greenhouse gas emissions, which may include hydrogen, biodiesel, ethanol, and renewable diesel.

Promote PEV Adoption. Conduct public outreach campaigns to promote EV driving; fleet analysis. Provide web and in-person decision support. Conduct leadership by example among government agencies. Support low-carbon transportation initiatives at other agencies.

Promote Efficient Driving Practices. Promote the use of energy-efficient driving practices that improve fuel efficiency, such as moderate speed changes and legal speeds, anti-idling, and traffic-calming features.

Support Shipping Efficiency. Support the implementation of trucking efficiency technologies and best-practices, including idle-reduction technologies, aerodynamic retrofits, and low rolling resistance tires. Support the analysis of other potential transportation modes that could provide efficient shipping alternatives such as barge and rail.

EXPAND FUELING INFRASTRUCTURE

Develop Transportation Electrification Infrastructure. Develop and implement Electric Vehicle (EV) charging stations. Provide local incentives for EV charging infrastructure.

Develop Biofuels. Promote use of waste oils and other biomass sources for biofuels production. Focus on waste oils and other biomass that are not already being used for other purposes, and explore potential opportunities and issues of new technologies for biofuels production from local resources.

Streamline Permitting for PEV Charging Infrastructure. List PEV charging as a permitted use across a broad range of zoning classifications. If a zoning review is triggered, consider the EVSE as an accessory use to another permitted use whenever possible. Develop a standard EVSE permitting process that can be used across the North Coast Region, etc.

Promote Vehicle-to-Grid Connection. Promote integration of motor vehicles with the electric grid, including battery electric vehicles, fuel-cell vehicles, plug-in hybrid electric vehicles, and solar electric vehicles. Evaluate development status of vehicle-to-grid interconnect standards and the use of grid-connected vehicles for short-term energy storage.

Energy Generation & Utility Services

RCEA will address supply-side energy needs for Humboldt County through its existing Community Choice Aggregation program and development of new programs and initiatives as appropriate.

POWER RESOURCES

Maximize the Use of Local Renewable Energy to the Extent Technically and Economically Feasible and Prudent. Use the CCA program with its renewable energy targets, and programs supporting distributed energy resources, to achieve this aim.

Minimize Greenhouse Gas Emissions Associated with RCEA's CCA Program. CCA power mix has, at least, a 5% lower greenhouse gas emission rate than PG&E mix.

Reduce Regulatory Barriers. Support efforts to increase the efficiency of the energy systems permitting process and reduce any excessive regulatory barriers to renewable energy and distributed generation projects. Work to develop proactive strategies to reduce and mitigate the environmental and community impacts of potential energy projects.

Maximize Renewable Energy Content of RCEA’s CCA Program. CCA power mix is at least 5% more renewable energy (as defined by state law) than PG&E’s power mix and reaches 100% clean and renewable content by 2025.

Ensure Diversity in Local Sources. Pursue development of a diverse, locally produced energy supply, with an emphasis on renewable resources, that is price-competitive in the California market and that can be generated in a way that minimizes adverse environmental impacts.

Promote Energy Feasibility Studies. Encourage and support feasibility studies of local wind, solar, hydro-power, and ocean energy resources. Make recommendations on preferred alternatives that are consistent with the County’s goals for energy security and sustainability.

Power Resources: Distributed Generation

Designate “Renewable Energy Parks.” Work with County and City planning departments to designate areas of the county preferred for renewable energy development.

Develop Distributed Generation. Encourage studies to identify key facilities throughout the county that would benefit from distributed generation and cogeneration energy systems. Encourage development of responsive environmentally preferable distributed generation and cogeneration energy systems where appropriate. Encourage and publicize demonstration sites.

Provide Education on Renewable Energy and Distributed Generation. Provide educational and promotional programs that encourage and demonstrate the use of renewable energy and environmentally preferable distributed energy generation and cogeneration systems.

Provide Feed-In-Tariff Power Procurement Program for Small Generators. Offer long-term contracts at a set rate for Renewable Portfolio Standard-eligible renewable energy generators of 1MW or smaller.

Power Resources: Solar

Support Solar Energy Development. Support local efforts to develop solar electric systems and solar hot water systems in the county. Support development of local training programs for solar contractors and installers. Educate the public about the benefits of solar energy systems. Develop programs that facilitate an increase in the number of solar energy systems in the County.

Power Resources: Offshore Wind

Pursue Offshore Wind Energy. Work with public and private entities to develop offshore wind energy off of Humboldt County’s coastline, and support establishing Humboldt Bay as a west-coast hub for the offshore wind industry.

Power Resources: Onshore Wind

Promote Large-Scale Wind Energy. Provide information about the potential for cost effective commercial-scale wind farms in the county. Educate the public about the benefits and impacts of wind energy systems. Work with utilities, local government, and private companies to develop onshore wind energy projects.

Power Resources: Bioenergy

Support Biomass Fuels Reduction and Utilization. Develop strategies and technologies for improved biomass utilization in ways that effectively support restoration objectives and fire management priorities. Coordinate with local agencies, communities, and landowners to develop biomass energy plans that are consistent with sustainable forest management, hazardous fuels reduction, fire safety, and restoration needs.

Contract for 20MW Local Biomass Energy. Contingent on price and market conditions, contract for a target of around 20MW of local biomass energy.

Promote Small-scale Biomass Generation Sites. Monitor feasibility of smaller and/or mobile biomass electric generators fed with wood waste and very small diameter logs (e.g., from thinning for fire safety and timber harvest slash in National Forest areas). If/when technology proves feasible and cost effective, promote its use in county areas near National Forests where existing electric transmission lines are available.

Pursue Biogas Development. Support HWMA and others in the development the development of a food waste digester. Develop and publicize dairy biogas demonstration sites and work with local farm organizations to promote dairy biogas energy systems where appropriate. Publicize the use of biogas at existing local wastewater treatment facilities and encourage its use at additional facilities where appropriate.

Power Resources: Wave and Tidal

Pursue Wave and Tidal Energy Development. Build on the previous WaveConnent and CalWave projects to explore and evaluate opportunities for local wave and tidal energy research, development, and pilot-deployment.

Power Resources: Hydro

Support Existing and New Local Small-scale Hydroelectric Power. Evaluate options for contracting with existing small hydroelectric projects as well as the development of new small-scale run-of-the-river hydroelectric projects that would be compatible with environmental and cultural priorities. Encourage appropriate local agencies to prepare an updated assessment of small hydroelectric resources potential in the county.

UTILITY ENERGY SERVICE

Minimize Energy Interruptions. Work with local utility providers to minimize impact of power outages.

Provide Energy via Direct Access or Core Transport Agent Agreements. Explore the feasibility of RCEA acting as an electricity provider through direct access and/or acting as a natural gas core transport agent for local energy customers.

Review Utility Options. Review the effectiveness of PG&E in meeting Humboldt County's long-term energy needs, and evaluate the feasibility of establishing a local municipal electric utility.

RATES & TARIFFS

Provide Community Choice Aggregation Program Customer Rate Savings. Provide customer savings relative to corresponding PG&E generation rates and with PG&E PCIA fees factored in averaging at least \$2 million per year.

Provide Electricity Buyback. Provide a net energy metering program that encourages more distributed local generation and more equitably compensates such generation.

Retain and/or Redirect Rate-Payer Dollars Back into Humboldt County. Work to maximize the amount of rate-payer dollars redirected back into Humboldt County when taking into consideration local power procurement, customer rate savings, local program spending, and allocations toward building the reserve/contingency fund for RCEA's Community Choice Aggregation program.

Provide Match Funding for State, Federal, and Foundation Energy Grants. Support bringing resources into Humboldt County to pursue CCA community energy goals.

Support Time of Use Rates. Support customer transitions to time of use rates.

TRANSMISSION & DISTRIBUTION INFRASTRUCTURE

Perform Transmission Assessments and Monitoring. Encourage development of long-term transmission assessments and, if necessary, electrical transmission grid expansion plans. Monitor local electricity transmission system planning to ensure that projected growth areas are adequately served and to support the development of local renewable energy projects.

Upgrade the Electricity Transmission and Distribution System. Upgrade the regional transmission and distribution electrical grid to enable increased development of both utility-scale renewable energy projects as well as community-scale distributed generation systems, including capability to export surplus renewable electricity generation from Humboldt County to other areas of the state.