



WALLOWA COUNTY
Community Energy Strategic Plan

2023

Revised December 2023

WALLOWA COUNTY'S

ENERGY FUTURE

A community-wide energy plan.

Photo by Ellen
Morris Bishop

PREAMBLE

In 2022, Wallowa County Board of Commissioners appointed an Energy Planning Leadership Team consisting of local business and industry representatives, active and retired local government officials to provide advice, strategies, and vision for a County Energy Strategic Plan. Wallowa Resources' Community Energy Program staff were contracted to support the Leadership Team's work.

The Plan was developed to get in front of rising energy costs and create greater energy system resiliency to disruptions in service or access to key sources of energy (electrical, fuels, etc.). The Commissioners

sought to elevate the opportunities to save energy dollars, generate new revenue and business opportunities, and safeguard individuals, households, and businesses from power disruptions.

The Leadership Team was thorough in its consideration of energy data and trends, infrastructure status and capacity, emerging technologies, and potential funding streams. This team also invested in substantial outreach across the county, briefing citizens on the purpose of the plan, and seeking input on the goals, strategies, and projects.

County's Role:

Implementation of this plan requires partnerships and collaboration with local government (esp. the four incorporated cities) the private sector, landowners, educational providers, and other local organizations. The County will work with partners to encourage and support the implementation of these strategies and priority projects. The County encourages all partners to prioritize local businesses and service providers in any project advancing under this plan. This is intended to be a living document that the County will revisit and update annually to ensure that it continues to reflect the preferences of the citizens.

Community Review Panel:

A 7-person Community Review Panel will be appointed by the Wallowa County Board of Commissioners to review the plan once every 6 months for the next 2 years. The panel will provide input and allow for transparency to the community of the plan and its component projects. Commissioners will proceed with the selection of the panel within the next 6 months and will publicize the selected panel members.

All meetings of the Community Review Panel shall be publicly noticed and open to the public.

This plan does not call for any new County departments, offices, or staff, nor does it include any new ordinances, or commit County funding. Consideration and development of any project in this Plan will include additional public outreach and engagement. Feasibility assessments including technical and financial plans will be shared with the public.

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Acronyms

AMI	Area Median Income	LOS	Letter of Support
CBRE	Community Based Renewable Energy	OCLEAP	Oregon County-Level Energy Action Planner
CEP	Clean Energy Plan	ODOE	Oregon Department of Energy
CESP	Community Energy Strategic Plan	ODOT	Oregon Department of Transportation
DOE	Department of Energy	OPUC	Oregon Public Utilities Commission
HUD	U.S. Department of Housing and Urban Development	SWOT	Strengths, Weaknesses, Opportunities and Threats
IAG	Implementation Advisory Group	USDA	U.S. Department of Agriculture
kWh	Kilowatt-hour	WC	Wallowa County
LMI	Low to Moderate Income	WRCEP	Wallowa Resources Community Energy Program



1. Preface

- The Wallowa County Community Energy Strategic Plan (CESP) is not a static document but rather a long-term blueprint to focus and guide efforts and actions toward a defined energy vision. Such a plan articulates goals, develops strategies and actions to meet the goals, and identifies and allocates resources to assure effective completion of these strategies.

As an important planning tool and “living document,” the CESP will help Wallowa County by:

Ensuring a reliable, clean, resilient and secure local energy system;
Supporting local economic development;
Fostering behavior change and a culture of conservation; and
Identifying ways to increase the energy efficiency of buildings in Wallowa County.

The preparation of the CESP in 2022 - 2023 was carried out with primary funding assistance from Energy Trust of Oregon. The process closely follows the [U.S. Department of Energy - Guide to Community Energy Strategic Planning](#).

The CESP project was initiated on October 13th, 2021 with endorsements from all three county commissioners (see signed LOS in **Appendix A**). The Wallowa County CESP Leadership Team was established in April 2022. The Leadership Team was comprised of key stakeholders representing various sectors and offering different perspectives. The Leadership Team members provided guidance, shared technical advice and knowledge, and actively participated through each key phase of the Plan’s development. Throughout the planning horizon, a variety of other stakeholders were engaged as well, including City Government, local schools, the business community, and the community at large.

Wallowa County thanks numerous individuals and organizations for contributing to the development of the CESP. This Plan could not have become a reality without the time and effort of numerous people. In addition to the Leadership Team members listed here for this CESP development, **Appendix G** contains the individual stakeholder groups that were instrumental in the CESP’s creation.

Following the publication of the CESP, the CESP Leadership Team will be transitioned into an Implementation Advisory Group (IAG) to further implementation of projects, to shape managing organization and to foster greater community support (**See Section 8 Blueprint for Implementation**).

Leadership Team Members

Mike Hayward - Chair
Ryan Sheehy
Sara Miller
Travis Boyd
Paul Karvoski
Stacy Beckman
Andy McKee
Joe Dawson
Franz Goebel
Jennifer Piper
Dan McCarthy
Emily Bratcher



2. Introduction

2.1 Purpose of the Community Energy Strategic Plan (CESP) Why develop a CESP for Wallowa County?

- The Community Strategic Energy Plan provides Wallowa County with a roadmap to move towards a pro-active future that benefits the community with energy efficiency, reducing energy burdens, economic development, harnessing local distributed renewable energy resources to provide energy resilience and keep some energy dollars invested locally. The CESP provides the County with a vision for sustainable energy that allows the community to develop energy resources and use while contributing to economic development. It also provides a platform to demonstrate leadership in energy management at the community level, as well as capitalize on funding opportunities for energy planning in the future.

Rural and remote communities often face a lack of energy access, prohibitively high energy costs along with a high energy burden (**See Section 4**) and the risk of severe and prolonged power disruptions. As a community that is at the “end-of-the-line”, Wallowa County has an opportunity to identify energy strategies that leverage new tools to reduce costs and keep energy affordable, providing community energy resilience solutions, driving energy efficiency, developing locally sourced distributed renewable energy and clean energy investments, increasing sustainability.

It is important to note that rural communities often have other energy challenges related to the availability of heating fuels, older housing stock and the associated reliance on heating sources other than electricity. Also noteworthy is that the CESP

embraces all energy sources including but not limited to, propane, heating oil, firewood, transportation, and agriculture fuels as well as electricity.

Energy planning helps the County consider the environmental and economic benefits of how energy is consumed and generated in the community, in addition to considering how this impacts the overall quality of life of its residents.

It is also important that the plan be considered as a living document. It is possible that opportunities or actions could be adjusted based on implementation progress, technological advances, funding opportunities or regulatory changes. The IAG Team, described in **Section 8.1**, proposes to track progress towards the goal and implementation activities and to report on the plan as needed on a semi-annual basis.



Photo by
Talia Filipek



3. CESP Process

- This Plan was carried out with assistance and funding from the Energy Trust of Oregon to be facilitated by the Wallowa Resources Community Energy Program (WRCEP) Team (the Plan Manager) on behalf of Wallowa County. It is called a Community Energy Strategic Plan as the plan identifies a comprehensive approach to energy planning across the whole Wallowa County community. The CESP will help Wallowa County as a community by identifying local priorities and determining how energy should be generated, delivered, and used now and into the future. The success of the CESP will require action from multiple stakeholders and is not intended to be undertaken by the County alone.

It should be noted that this plan was written with the intent that it may provide guidance toward a replicable model for other rural communities that are initiating their own energy planning project.

In order to ensure the planning process worked efficiently, there were three roles developed: Plan Manager, Plan Champions and the Leadership Team. The WRCEP Team was contracted to fill the role of Plan Manager. The Plan Champions and Leadership Team Members were identified as the planning moved forward. The DOE Guide states the following descriptions of the importance of each role of these positions:

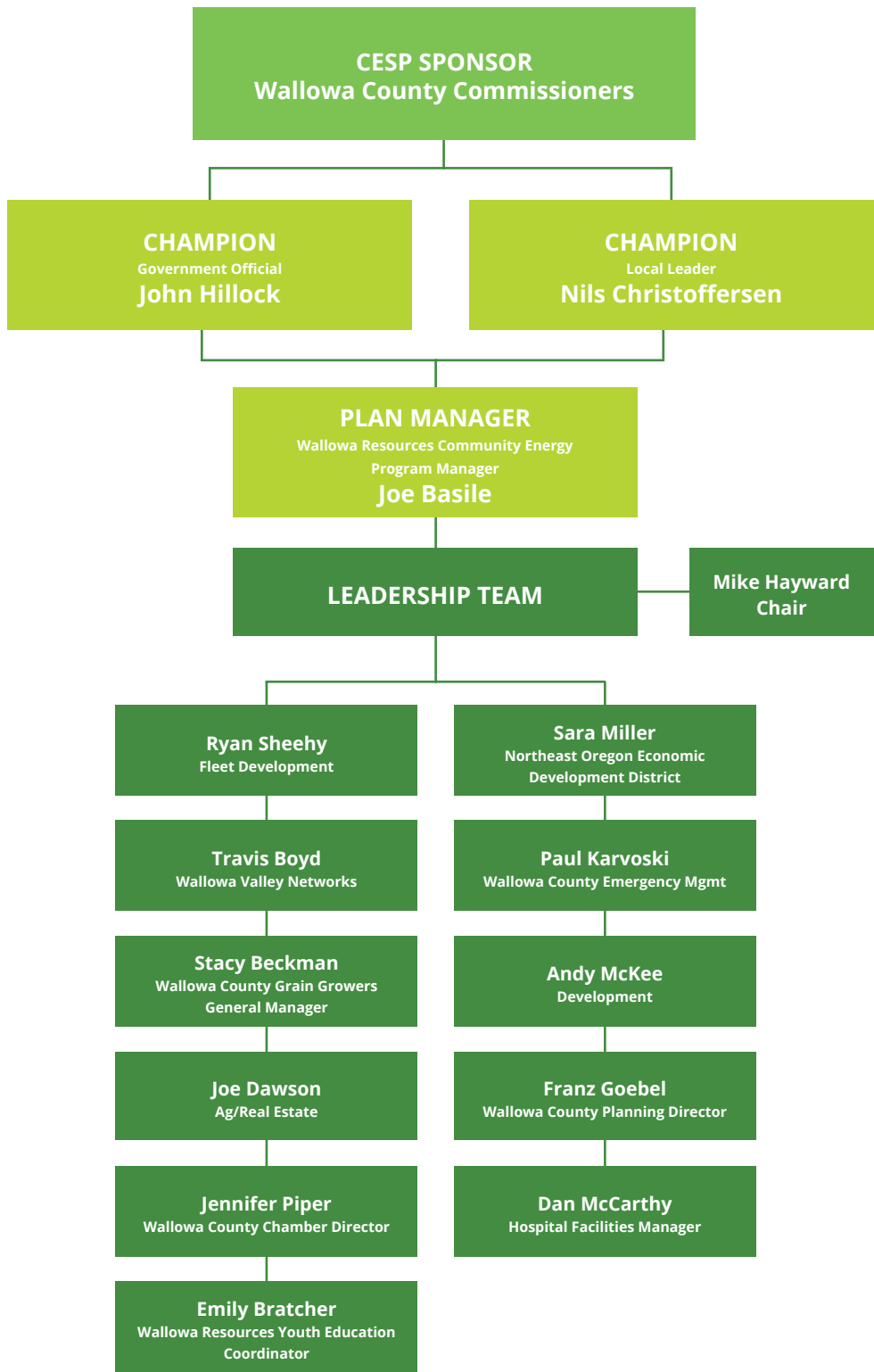
Plan Manager	Plan Champions	Leadership Team
"The Plan Manager is a central figure to drive and focus effort on a daily basis, support the work of the Leadership Team, facilitates and manages the activities and provides administrative support throughout the planning process. The Plan Manager has access to and working relationships with the Plan Champions."	"The Plan Champions are highly visible executive level sponsors, elected officials or community leaders. They provide authority and leadership to the process as well as visibility and credibility."	"The Leadership Team will not likely be the final decision makers but will provide recommendations on and for CESP elements. They will represent diverse points of view, encourage buy-in as representatives of important stakeholder groups, provide input to development of components of the plan, and provide the authority (or influence of those with the authority) for plans to become actions."

See the following CESP Leadership Team Organization Chart



Figure 1.

CESP ORG CHART





3.1 Establish & Charge a Leadership Team

- Wallowa County's CESP process began in October 2021 with letters of support from County Commissioners and the execution of a contract outlining funding and scope of work between Energy Trust of Oregon and the Plan Manager, Wallowa Resources Community Energy Program Team.

The scope of work closely followed the U.S. Department of Energy - Guide to Community Energy Strategic Planning. The first step of the process was to identify potential members of the CESP Leadership Team. In a very small community such as Wallowa County, the CESP Plan Manager felt it imperative that the selection process of leadership must be transparent and based on input from the community and not based on the input of a single individual or entity. With these goals in mind, a Convening Group was assembled made up of well-connected community leaders of diverse backgrounds with insight into the needs of the community. The focus of the Convening Group was to select Leadership Team nominees that represent a broad cross-section of the community to ensure, to the extent possible, that project outcomes are representative of, and serve the whole community. The Convening Group collectively nominated each of the Leadership Team members.

The CESP Plan Manager and convening group decided on a 12-member team with 2 champions such that the team would be large enough to ensure broad community representation offering diverse perspectives yet small enough to ensure team cohesion and decision making ability. It is noteworthy that in a very small community such as Wallowa County, a Leadership Team of this size helped ensure that the community as a whole would be well represented.

The CESP Leadership Team was established to assimilate local knowledge and assure the goals and strategies presented in the plan reflect broad buy-in. Again, members represent a broad cross-section of the Wallowa County community with representation from municipalities and local planning members to the agriculture sector, energy, industry, fuel providers, developers, real estate, economic development, and the public hospital.

Based on the DOE Guide:



The Leadership Team should be established as quickly as possible, but no later than 1-2 months after development of the plan is authorized. Putting the team together quickly and early in the process will get momentum for the process going, demonstrate early progress to the official(s) that authorized the CESP, and assure that leadership is in place to help identify and engage the appropriate stakeholders.

Every effort was made to ensure that the community views the CESP Leadership Team as a truly representative assembly that will promote broad community participation.





THIS PLAN WAS INFORMED BY THE COMMUNITY

Development of the Plan was directed by the CESP Leadership Team. Comments on the Plan were solicited throughout the process from stakeholders and members of the public through a public comment page on the CESP webpage and individual printed handouts along with consistent conversations as the plan was developed.

A Community Meeting was held on November 8th, 2023 to listen to any suggestions or concerns the community might have on the CESP. A summary of those comments are listed in **Appendix L**.

Beginning in April 2022, monthly meetings were convened for the CESP Leadership Team. Meetings were coordinated around themes consistent with the steps provided by the [U.S. Department of Energy - Guide to Community Energy Strategic Planning](#). Decisions and recommendations advanced with general consensus from the team. The Team developed and agreed upon utilizing a Ground Rules and Decision-Making Rules process in an effort to reach agreement on a course of action to address an issue or a set of related issues. Establishing ground

rules for how the team would work together was an essential step to take before embarking on the CESP. This helped develop an important foundation for how the team was expected to work together in order to accomplish its goals and served as a reminder of the values the team intends to uphold. In addition, a Conflict of Interest Policy was developed for the Leadership Team that helped outline the procedures for the team members when a conflict occurred between their personal interests and the interests of the CESP.

See following figures or appendices:

■ Appendix B.

Leadership Team Conflict of Interest Policy

■ Appendix C.

Leadership Team Charter

■ Appendix E.

Leadership Team Elevator Speech

■ Figure 1.

Leadership Team Org Chart

■ Appendix D.

Leadership Team Ground Rules
- Decision Making Rules

■ Appendix J.

Goals, Strategies & Potential Actions

The Leadership Team provided guidance, shared technical advice and knowledge, and actively participated in each of the key tasks of the CESP development. The Leadership Team Chairman was instrumental in maintaining focus on the current task, team engagement, progress and momentum. Discussions focused on energy and resources, affordable energy upgrades for Low to Moderate Income (LMI) residents, strengthening operations, and ensuring a community-wide approach toward common goals. A timeline was developed with tasks that not only referenced deliverables needed to satisfy Energy Trust of Oregon but to also provide the team with momentum to keep the process going. An online shared drive was created for easy storage where the team could access files relating to the

CESP development. It should be noted that the CESP process took longer than anticipated therefore the timeline is not the actual time frame that it took to complete the CESP. There are a number of factors that delayed the process with numerous lessons learned and documented.

Periodic review of the CESP timeline and process progress is necessary for the Leadership Team in order to maintain project pace and situational awareness.

See Timeline in Appendix F.



NOTEWORTHY LESSONS LEARNED:

- Community engagement takes time, lots more than anticipated. The Leadership Team members are all busy with family, careers, etc. and we need to allow time and flexibility to allow them to meet with stakeholders. An 18-month project took closer to 2-years.
- If available, consider utilizing professional facilitators for Leadership Team meetings.
- Casual interactions between leadership and community members are extremely important to capture perspective, identify interested stakeholders / individuals and identify outreach opportunities / venues. Word of mouth is the best advertising, and it takes time.
- Over sufficient time, people with valuable input will continue to “come out of the woodwork” once word gets out in the community about the energy planning process.
- The monthly Leadership Team meetings were scheduled for 1.5 hours. Some members were occasionally able to stay longer but most meetings, while productive, felt as if more time was needed to move through a particular step of the planning process.
- Many of the Leadership Team meetings were consumed by in-depth discussions about a particular topic. These discussions were often not anticipated but were necessary in order for the team to move forward.
- On some occasions, the meeting discussions moved off topic. It is important for the Plan Manager or team chairman to help steer the group forward. There are several steps of the planning process where the DOE guide provides insight to avoid stalling on these steps.
- It is important to realize the value of relationship building among team members, developing social capital and building trust and awareness of others’ areas of expertise, networks, life experience, etc. This will add to efficiency in decision-making and achieving consensus as the planning work progresses and during the implementation and updating activities.
- It is important for the Plan Manager to make progress with planning steps between meetings in an effort to complete steps beyond where the last meeting discussion left off. This, however, needs to be done with discretion and transparency.
- Plan Manager meetings with Leadership Team members between meetings enhances engagement and meeting attendance.
- It’s important to remain flexible and make progress where you can.
- Having champions regularly attend Leadership Team meetings is valuable, particularly to elevate discussion to broader concerns and offer connections to key players outside the group.
- It is important to be clear about specific next steps, “homework”, for Leadership Team Members and due dates.
- Periodic review of the CESP timeline and process education is necessary for the Leadership Team in order to maintain project pace and situational awareness.
- Plan Manager discussions with the Leadership Team Chair should be routine to develop methods to maintain energy, interest, engagement and focus of the Team.
- It became apparent that after completing the draft plan there was a need for more public engagement prior to the adoption by county commissioners.

Community Outreach.



It became evident about midway through the planning process that the level of understanding about the intent and scope of CESP project and energy related matters varied greatly among the Leadership Team members. A glossary was built to help with understanding of energy related terms (**See Appendix H**). For other communities kicking off a CESP project, it would be advisable to conduct CESP and energy related training sessions for Leadership.

For reasons stated above, community outreach materials should be distributed very early on in the process to allow the community and stakeholders time to become familiar with the goals and objectives of the CESP project.



LEADERSHIP TEAM MEETING PROCESS:

- The process for monthly meetings were consistent in how they were formatted and consisted of the following protocol:

Plan of the Day

A document was developed prior to the Leadership Team meetings for the WRCEP Team to prepare for the meeting utilizing the DOE guide and preparing the development of the monthly Leadership Team Meeting Agendas.

Monthly Agenda

A Monthly Agenda was provided in advance for the Leadership Team utilizing the DOE guide and providing a 'Focus of the Day'.

Lunches

Meetings for the Leadership Team were built around the normal lunch hour. Due to the busy schedules amongst the team, lunches were provided for every Leadership Team meeting for their convenience as an incentive.

Meeting Records

Hybrid meetings were scheduled for the Leadership Team meetings to allow all to participate according to their schedules. These meetings were also recorded for members that could not attend. A 'Note-Taker' was assigned to each meeting and meeting notes were distributed post-meeting approximately a week after each Leadership Team meeting.

Table 1. List of Leadership Team meetings held to date.

DATE	FOCUS OF THE DAY
April 14th, 2022	KICK OFF MEETING
May 18th, 2022	GROUND RULES & STAKEHOLDER DISCUSSION
June 15th, 2022	IDENTIFYING & ENGAGING KEY STAKEHOLDERS
July 20th, 2022	IDENTIFYING & ENGAGING KEY STAKEHOLDERS
August 17th, 2022	COMPLETE IDENTIFYING KEY STAKEHOLDERS
September 21st, 2022	COMPLETE IDENTIFYING KEY STAKEHOLDERS/BEGIN VISION DEVELOPMENT
October 19th, 2022	CONTINUED STAKEHOLDER ENGAGEMENT & COMPLETE VISION STATEMENT DEVELOPMENT
November 16th, 2022	REVIEW ENERGY PROFILE, COMPLETE SWOT ANALYSIS QUESTIONNAIRE
December 14th, 2022	STAKEHOLDER ENGAGEMENT TO DETERMINE "GOALS & STRATEGIES"
January 18th, 2023	STAKEHOLDER ENGAGEMENT TO DETERMINE "GOALS & STRATEGIES"
February 15th, 2023	REVIEW STAKEHOLDER INPUT TO DETERMINE GOALS
March 15th, 2023	ADOPT GOALS & STRATEGIES, CONSIDER POTENTIAL ACTIONS
April 19th, 2023	ADOPT GOALS & STRATEGIES, & DETERMINE PRIORITIZATION METHODS
June 21st, 2023	REVIEW PRIORITIZATION MATRIX, PRIORITIZE ACTIONS OR PROJECTS
July 19th, 2023	APPROVE PROJECT PRIORITIZATION, SELECT TOP-5 PROJECTS
September 20th, 2023	FINAL CESP DRAFT REVIEW



3.2 Identify & Engage Stakeholders

- Throughout the planning horizon, a variety of other stakeholders were engaged as well, using a variety of networks for outreach, including:

Leadership Team Engaging Stakeholder Groups

The Leadership Team engaged with residents, businesses, local government agencies, technical and professional organizations, and other stakeholders on the development of the CESP. Leadership Team members undertook stakeholder groups (**See Appendix G for Stakeholder Group Examples**) to engage with and goals that were reflected in what the community needs are.

As stated in the Community Information Sheet (see **Appendix H**), a role of the Leadership Team is to *"Help create and then work with a small group of business stakeholders to make sure the plan includes what matters to all of us"*.

It's important to note that the engagement with stakeholders was conducted at a high-level and more detail was assigned to the Leadership Team Members with the respect that the Leadership Team well represented the community as a whole.

As the County implements the individual strategies, it will continuously engage and inform stakeholders of progress, actions, and developments as strategies are advanced and/or completed.



Website

A webpage on the [WRCEP Website](#) with background information, downloadable materials and resources was launched in June 2022, the webpage received 534 views with an average time spent on the page of approximately four minutes. All the following printed materials are provided for download.

Printed Materials

See Appendix H for all printed materials.

Stickers/Buttons - "I Have Good Energy" and "We Have Good Energy" stickers and buttons were developed June of 2022 for handouts at public events and located at various local organizations and vendors.

Invoice Stuffers - An informational flyer developed July of 2022 provided to local vendors to include in mailed invoices. The local vendors that participated sent out over 1,000 stuffers to locals.

Community Information Sheet - An informational sheet developed June of 2022 to provide the community with what a CESP is, why it's important for our community, and the CESP Leadership Team Members.

Info Brochure - An informational trifold brochure developed December 2022. This brochure was distributed throughout the county by direct delivery to businesses and by handouts from the Leadership Team.

Glossary - A CESP Mini Glossary developed in December of 2022 to provide the community with the knowledge and understanding of key terms and concepts in the energy industry.

Roll-ups - Two retractable banners developed in March of 2023 showcased four different local residents who have made steps in creating a more self-reliant energy future within their residence or their business.



Media Outreach

To provide project information and promote public input, the team used of radio, newspaper, social media, and online newsletters as shown.

Woodlands & Watersheds Festival

- June 2022
- June 2023

Wallowa Resources Newsletters

- December 2022
- March 2022
- January 2023
- April 2023
- May 2023

Newspapers

- July 27th, 2022, Wallowa Chieftain, [COUNTY ENERGY PLANNING LAUNCHED](#)
- Sept 8th, 2022, Elkhorn Media Group, [WALLOWA COUNTY COMMUNITY ENERGY PLANNING LAUNCHED](#)
- April 6th, 2023, Wallowa Chieftain, [PAPERWORK COMES THROUGH FOR COUNTY 'MICROGRIDS'](#)
- Sept 8th, 2023, Wallowa Chieftain, La Grande Observer, [ENERGY PLAN TO COME FOR ADOPTION IN TWO WEEKS](#)

County Commissioner Meeting CESP Updates

- April 2023
- September 2023

Word of Mouth Enhancements

It's widely recognized that "*Word of Mouth*" is one of the most powerful ways people come to trust (or distrust) products or messages. Word of mouth is particularly active in small close knit areas like Wallowa County. We hear about stuff and then we talk to people in our circle..."did you hear about that energy stuff?".....I heard something about it being easier to get solar panels..."....."there's some group looking to stop power outages". If at the same time we continually have easy access to a variety of printed materials, as outlined in the previous section, with cohesive messaging, the printed materials can deepen, and refine understanding, inspire confidence, refer to additional resources and ultimately inspire action.

The printed materials such as the stickers / buttons, invoice stuffers, community information sheets, roll-ups, all loop into this information gathering process which are more widely shared. We like to eavesdrop. We like to tell stories—and gossip. So we utilized at least some of our materials to fit into those patterns.

Susan Badger-Jones
Former WRCEP Team Member and Project Advisor



SWOT Questionnaire

SWOT: Strengths, Weaknesses, Opportunities and Threats questionnaire was developed December 2022 and provided through the website and for handout at public events, Leadership Team meetings and various local organizations. Leadership Team members also provided handouts to the stakeholder groups in which they were assigned. The SWOT questionnaire proved to be an effective tool and has constituted a suitable baseline to diagnose current energy problems and concerns followed with a desired sketch for future action lines.

The results align closely with the CESP's goals to ensure reliable, clean energy, becoming a resilient community and increasing efficiency in Wallowa County buildings. Respondents also expressed concerns about the impact of the high cost of energy, aging infrastructure and living in a rural/remote community. The results indicated high interest in clean/renewable energy, in particular solar power and hydropower.

Figure 2 provides a high-level summary of survey results.

Energy Resilience

The ability of a community to maintain the energy needs of critical public services during non-routine power disruptions which could be severe and/or prolonged.



Figure 2. SWOT Analysis Summary

Strengths

Ample renewable energy resources such as hydro, solar, wind and biomass/firewood. Wallowa County leaders and residents have the vision and potential to make positive changes to our energy future and environment.

Weaknesses

Aging housing stock with outdated heating systems and limited incentives for upgrades add to the energy burden for residents. Aging electric infrastructure and high cost of liquid fuels for both heating and transportation are weaknesses.

Opportunities

Public transportation, bike/walking paths, EV adoption, renewable energy development and energy awareness campaigns are opportunities.

Threats

The likelihood of wildfire, extreme weather events, electricity outages and our remote or isolated communities make energy resilience and security a concern for residents.

Presentations

Presented an overview of CESP project at Rotary Club luncheon on March 1st, 2023.

The following Leadership Team presentations were also provided:

- June 2022, Value Brief
- November 2022, Energy Profile
- December 2022, Goal Setting
- February 2023, Goals and Strategies



Pub Talk



A Pub Talk on April 12th, 2023, where members of the public had opportunities to learn about what the CESP is and provide comments. Approximately 45 people attended with comments on various concerns such as mass vehicle transit, solar, hydro, microgrid, ag efficiency, history of energy in the county, increases of energy costs, and grid upgrades.



3.3 General Communication & Coordination with Energy Trust of Oregon

- Per the scope of work developed by Energy Trust, the Plan Manager scheduled and held monthly coordination meetings with Energy Trust staff. Prior to each of the monthly meetings, a monthly agenda was shared with Energy Trust along with a monthly communication update. The agenda format was developed based on current work topics with notes, next steps, assignments and due dates.

The monthly communication update format was as follows:

Project Outreach and Plan

- » Since the last report we have completed the following
- » Since the last report we continue or started work on

Community Outreach and Communication

- » Upcoming opportunities for Energy Trust Engagement
- » Upcoming opportunities for Pacific Power Engagement

Real-Time Learning

The real-time learning section was updated monthly with new items. A list of the notable lessons learned is contained in **Section 3.1**.



4. Wallowa County's 2022 Community Energy Profile

4.1 Overview of Wallowa County

- Wallowa County is a 3,152 square mile rural community of 4,326 households located in Northeast Oregon. According to the 2022 US Census Bureau, the racial composition of Wallowa County's 7,659 residents is 95% White, followed by Hispanic at 4.2%, and Black, Asian, and Native American at 2.2%. Wallowa County's Total Area Median Income (AMI) is \$57,891 with 9% of households below the US poverty threshold.

The cost-savings and benefits from energy efficiency provide significant impacts to low-income households. Energy efficiency is a beneficial tool for low-income household programs and provides relief to participants who spend a larger proportion of household income on energy costs. Energy burden refers to the portion of income that is spent on energy costs. One national study states that the median energy burden experienced by low-income households is 7% of total household income, twice as high as the national median of 3.5%. The most acute low-income housing issue in Wallowa County,

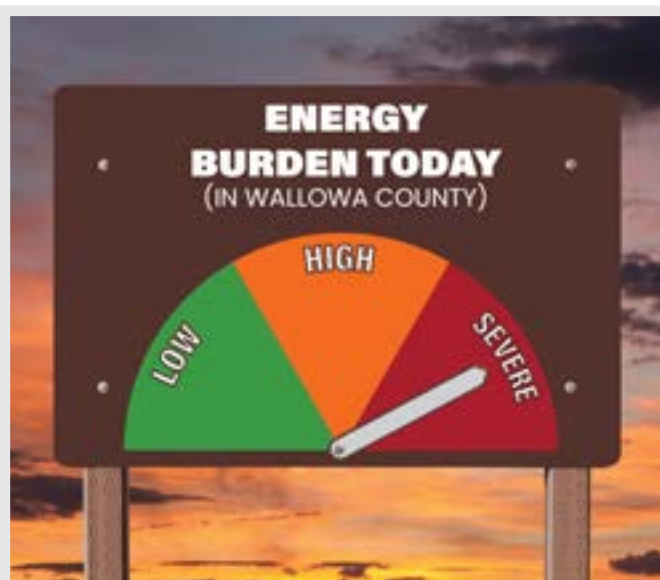
Oregon, is the severe scarcity of affordable rental options, exacerbated by a combination of limited economic opportunities, a seasonal job market, and high demand for vacation housing.

Lower income communities are also the most vulnerable to the adverse economic and health effects of extreme weather events. Energy efficiency and improved home weatherization can increase comfort levels during extreme temperatures, while also providing monthly savings on utility bills.

THE AVERAGE 2-BEDROOM APARTMENT IN WC LOW-INCOME HOUSING USES ~7,500 KWH/YEAR COSTING ~\$924/YEAR.

36% → **OF WALLOWA COUNTY HOUSEHOLDS ARE ENERGY BURDENED**
with

ANNUAL ENERGY BURDEN GAP OF → \$1,035



Energy Burden:

A household's energy burden is the percentage of annual income spent on home energy bills. A high energy burden is considered to be above 6% of annual income and a severe energy burden above 10%.

Annual Energy Burden Gap:

Amount needed to reduce energy costs to 6% of household income for household at 200% federal poverty level.



4.2 Energy Activities in Wallowa County

- Wallowa County has a long history of locally sourced distributed renewable energy generation, primarily smallscale hydropower. As early as 1920s, micro hydropower plants were installed in each of the county's four largest towns. The people relied solely on these small hydro plants until 1953, when Bonneville Power Administration (BPA) became the primary provider in the area.



Wallowa Lake Dam Hydropower

Historically, Pacific Power operated a hydropower facility using the irrigation water released from Wallowa Lake Dam. The original hydropower facilities were constructed in 1929 and operated until the mid-1950s when the powerhouse was damaged due to a fire and was not repaired. The Wallowa Lake Dam is scheduled for rehabilitation in 2024.



Sheep Creek Hydropower

Many years ago, a hydro power project was established by a hydro development company at a point before the Sheep Creek ditch enters the valley, but was later taken out of service at the end of it's useful life and not rebuilt due to financial feasibility.



Wallowa Falls Hydropower

Initially constructed in 1921 by the Enterprise Electric Company, it is now operated by PacifiCorp Energy, occupying 12 acres of federal land. The project has an authorized capacity of 1.1 MW. Camping, hiking, horseback riding and other recreational uses occur around the area along with a 10-unit campground near the powerhouse tailrace on lands owned by the company.



SPS Hydropower

Two facilities located on Spaur Ranch, the first constructed in 2011 and a second constructed in 2016. The two micro-hydropower facilities on their property put irrigation water and gravity to work to generate enough energy to meet all their residential and commercial power needs.



Wallowa Lake County Service District Hydropower

Constructed in 2019 with the powerhouse located within the Wallowa Lake State Park, this project uses the District's existing water system to harness energy. It produces enough energy to significantly reduce the District's energy costs while providing reliable drinking water to nearby Wallowa Lake residences and businesses.



Wallowa County Community Solar

Wallowa County Community Solar developed by Fleet Development is a 360-kilowatt project generating 754,000 kilowatt hours per year. 90% of the project output is subscribed to low-income multifamily housing tenants in the local area.



Wallowa County Commercial & Residential Solar

Wallowa County business owners and residents continue to pursue net-metered solar installations with a significant amount of capacity already installed totalling nearly 2.5 megawatts.





4.3 Profile of Wallowa County Homes & Buildings

- Single detached dwellings comprise a large percentage (80%) of residential buildings in Wallowa County. Multi-unit residential buildings make up around 8% while mobile homes make up around 12% of residential buildings in Wallowa County.

Many of Wallowa County homes were built in 1939 or earlier (20%) and were built with locally available materials only. Many of these homes were uninsulated and were heated solely by woodstoves. Around 40% of the residential buildings in Wallowa County were built from 1940 to 1979, were typically heated by wood or heating fuel and have numerous other energy related deficiencies. The remaining 40% were built from 1990 to 2022 with modern building codes in place. Recently Wallowa County has experienced a significant increase in new homes built during 2022-2023.

There are 8 multifamily apartment complexes in the county in designated U.S. Department of Housing and Urban Development (HUD) or U.S. Department of Agriculture (USDA) as low-income housing programs.

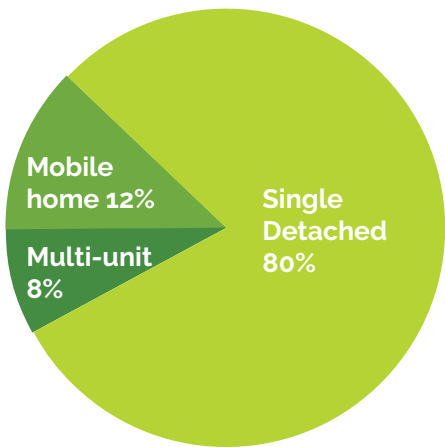


Figure 3. Wallowa County Residential Buildings Profile

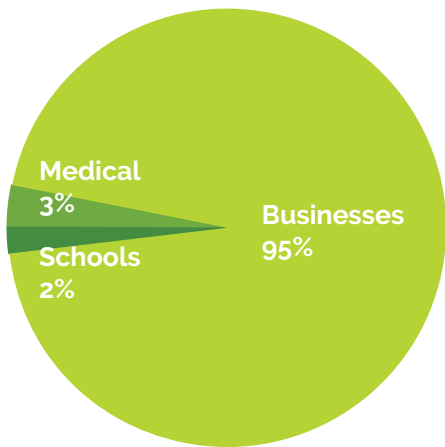


Figure 4. Wallowa County Non-Residential Buildings Profile



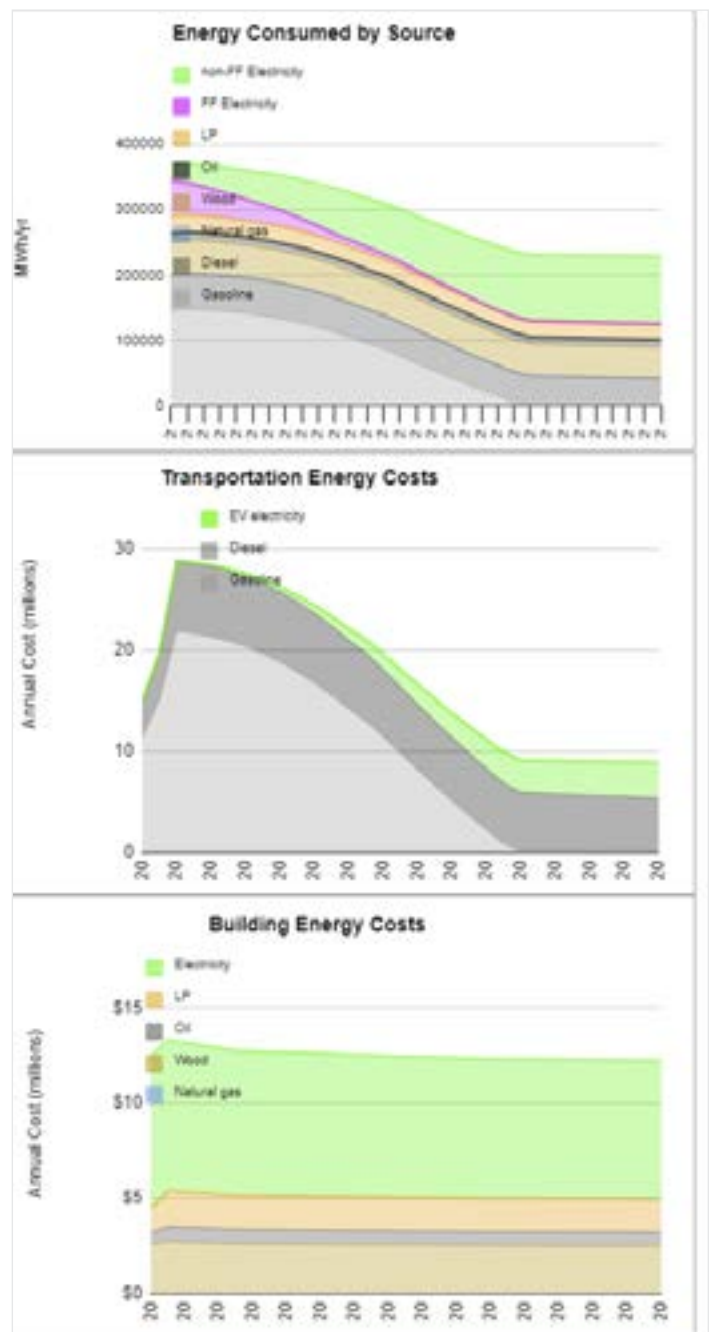
4.4 Wallowa County Energy Data Calculator

- In order to establish the current energy profile for the County, the year 2021 was selected as the revised baseline year as it was the most recent complete dataset available at the time of the CESP creation. A unique workbook calculator designed to collect and analyze energy data is the *Oregon County-Level Energy Action Planner* (OCLEAP). An OCLEAP workbook has been customized for five Oregon counties: Hood River, Wasco, Deschutes, Lake and Wallowa Counties. It can be customized for a new county in a few hours, using the public data for counties and estimates of per capita energy usages.

With the assistance of the OCLEAP designer, Eric Strid, the OCLEAP was utilized to gather the needed energy usage data for the County; calculate a business-as-usual forecast of energy usage, emissions, and costs; and calculate the impacts of various policy and cost inputs, projected through 2050.

The OCLEAP data entry sheets are auto-loaded with population history and forecasts from Portland State University links and vehicle registration data from the Oregon Department of Transportation (ODOT) links, as well as utility and other energy usage for electricity, natural gas, biomass, propane, and heating oil. In a first pass for customizing a county, the number of residential customers in each utility territory can be estimated and state averages for electricity usage per residential customer applied; the Oregon Public Utilities Commission (OPUC) data and Oregon Department of Energy (ODOE) link provides enough data to similarly estimate natural gas and other heating fuels usages. Current costs for heating fuels such as firewood, propane and fuel oil as well as transportation fuel costs were manually entered based on input from local distributors. Electricity data was provided by the local utility, Pacific Power.

Figure 5. OCLEAP Screenshot.
See Appendix I for a larger screenshot.





Wallowa County Energy Consumption 2021 - 2022

Figure 6 shows the mix and proportions of heating fuels consumed in the county. Relative to other locations in Oregon, it is unusual that the percentage of homes heated by firewood exceeds that of electricity, and also, that firewood and fuel oil account for nearly 50% of the mix. This highlights the need for household energy efficiency measures and the value proposition of ductless heat pumps. Figure 7 shows the annual county energy costs for all energy sources in 2021 and 2022. The 40% increase in a single year illustrates how vulnerable Wallowa County residents are to price increases. This increase was across all energy sources but largely due to liquid fuel prices.

Energy Profile Take-aways: The factors mentioned above, particularly concerning the energy cost increase, drew the attention of the Leadership Team to focus on what the true energy needs are for Wallowa County. This influenced the development of the guiding principles: conservation, efficiency and financial benefit. Also, due to the large percentage of non-electric fuel sources Wallowa County residents may be subject to policy-limited energy saving incentives.

Figure 6. Wallowa County Heating Fuels in Percentage by Household

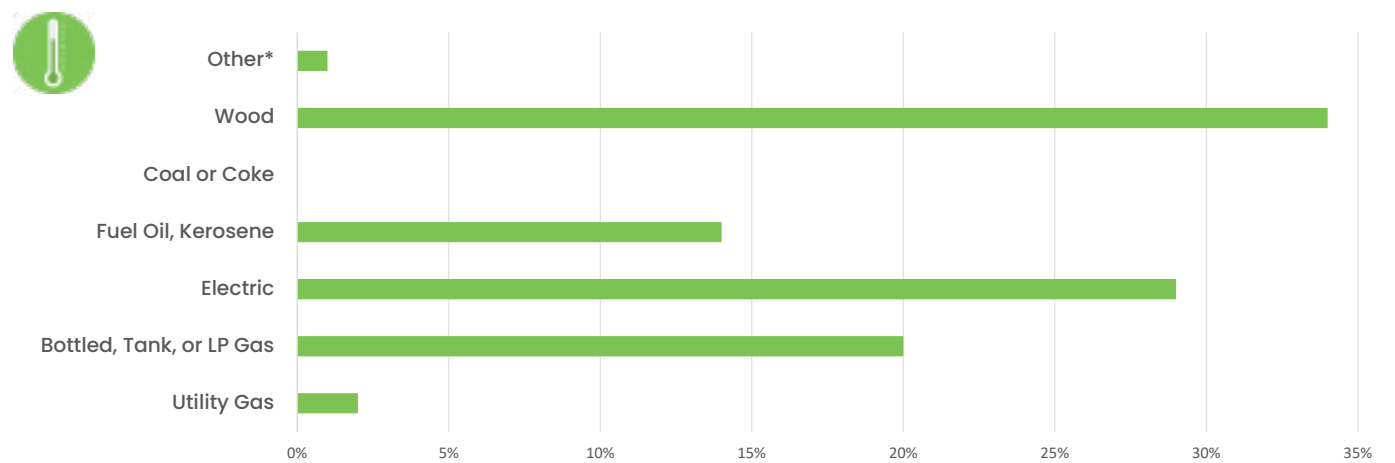
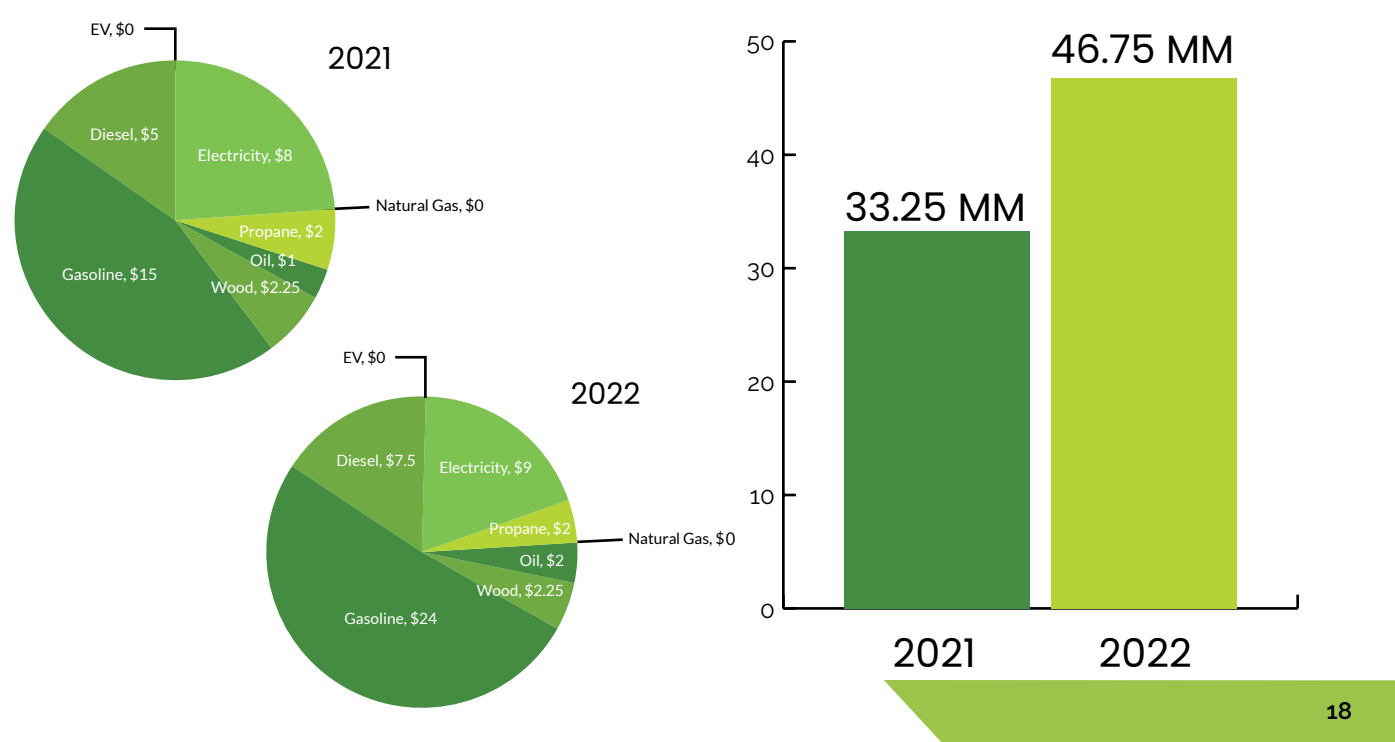


Figure 7. Wallowa County Energy Cost: 2021 vs 2022 in \$Millions





5. Wallowa County's CESP Vision, Goals & Strategies

5.1 CESP Vision

- Wallowa County, as a community, has the potential to save a significant amount of energy through conservation and efficiency.

The CESP sets a vision for Wallowa County to demonstrate community energy resilience by implementing best practices promoting energy conservation and efficiency and increasing use of local renewable energy sources. A community that is energy resilient is better able to recover from disasters and disruptions in a sustainable way and adapt to a new sustainable state. For a community to be considered energy resilient it must achieve greater energy independence by transitioning to renewable forms of energy, protecting against price spikes, and ensuring more reliable energy resources during possible disruptions. An energy resilient

community also includes energy efficiency and conservation programs for the community to help save energy and energy dollars. Moreover, an energy resilient community strengthens the local economy by ensuring reliable access to energy, safeguarding business, and creating jobs in the clean energy sector.

From the outset, the Leadership Team recognized the importance of this Plan and the important role that energy plays in everyday lives in Wallowa County. The CESP is a transformative plan with significant goals and strategies, but also with credible starting points and steps for incremental improvement.

With much thought, the Leadership Team developed the following vision statement for the CESP:

■ WALLOWA COUNTY COMMUNITY ENERGY STRATEGIC PLAN VISION STATEMENT

The Wallowa County Community Energy Plan is a living blueprint for energy self-reliance and security supporting community health and economic vitality. It advances energy conservation, efficiency, local generation, and resilience infrastructure as it protects water and other natural resources, reduces fossil fuel dependence, and keeps more energy dollars local.



5.2 CESP Goals & Strategies

- The CESP Leadership Team recognizes that meeting the goals and objectives in this plan requires the cooperation and teamwork of multiple sectors of the Wallowa County community and economy. As the Implementation Actions move forward, the CESP hopes to engage the entire community to empower and transform, from the public sector, civic sector, private sector and the various groups and agencies within those sectors.

The Implementation Actions outlined in Section 8 address these goals and align with the CESP vision statement (see above Vision Statement). In the below statements, the goals are to be shared across the Wallowa County community, and provide guidance and direction for municipalities, local businesses, and residents.

5.3 CESP Guiding Principles

- The Leadership Team identified several guiding principles that would be used to inform the overall decision-making process and development of the CESP vision, goals, and strategies. **See Table 2** for definitions.

The guiding principles of energy conservation and efficiency are to be viewed as foundational principles. In identifying the Plan's goals, all of the Plan's guiding principles were referenced to ensure close adherence to these principles. All the goals that were identified satisfy at least one of the guiding principles and many of the goals satisfy a number of them. For example, in the Leadership Team's view, the resilience of the local energy system is non-negotiable in determining specific actions – energy supply and security is of utmost importance in energy planning, especially in a small rural community such as Wallowa County. While energy resilience and security are guiding principles, the development of resilient energy infrastructure

also satisfies the guiding principles of local renewable energy development, financial benefit, environmental stewardship and social responsibility.

In general, a transformative, best-in-class approach was applied at all stages throughout the development of this Plan, along with a sound and responsible economic approach.

For purposes of transparency and inclusion, the setting of goals for the Energy Plan has been and will continue to be open to active involvement and participation of the leadership team, stakeholders and the community.

Table 2. Guiding Principle Definitions & Examples

GUIDING PRINCIPLE	DEFINITION	EXAMPLE
Conservation	The decision and practice of using less energy.	Walk instead of drive. Turn off lights. Read a book instead of streaming data.
Efficiency	Using less energy to perform the same task.	Upgrade to energy efficient vehicles, appliances, LED lighting. Add insulation to the attic.
Energy Resilience & Security	The ability to avoid, prepare for and recover from energy availability disruptions.	Solar + storage on school. Microgrid powered community centers.
Local Renewable Energy Development	Build local hydropower, biomass and solar generation.	Local renewable generation supplying local businesses and residents.
Financial Benefit	Improve our community's financial well-being and reduce energy burden by applying these principles.	Renter and homeowner weatherization program to lower energy cost.
Environmental Stewardship	The responsible use and protection of our natural environment through active participation in conservation efforts and sustainable practices.	Conservation education, awareness and outreach program.
Social Responsibility	Acting in the best interest of our community members and working for their betterment.	Programs accessible to residents that are in need, underrepresented, elderly.



5.4 Alignment to Local Plans

- The CESP takes an integrated approach to aligning with other local plans. Such plans include:



Multi-Jurisdictional Natural Hazards Mitigation Plan

Adopted by the Wallowa County Commissioners in November 2022. [The Hazards Mitigation Plan](#) contains a broad range of policies that aim at protecting residents, businesses, property, natural resources, and key infrastructure from extreme weather and risk of wildfire. This plan aligns with the CESP with these considerations as part of the capital improvement, planning and design processes in the areas of transportation, buildings, and infrastructure to increase energy efficiency, conservation, resilience and support renewable energy.



Pacific Power Clean Energy Plan

The [Pacific Power Clean Energy Plan](#) (CEP) was published on May 31, 2023. Although late in this CESP process, the CESP facilitators have carefully reviewed the CEP and found many synergies between the CEP and specific goals of the CESP. In particular, Section V, Community Based Renewable Energy (CBRE) and Section VII, Action Plan, collectively address the benefits, needs, planning and integration of CBRE projects like those identified in Wallowa County into the Pacific Power portfolio.



Wallowa County Energy Resilience Plan

Based on guidance from [Oregon House Bill - 3630](#), a bill that was introduced in May of 2023 stating that: "Each County should plan for and develop energy resilience and be prepared, in the event of major grid disruptions, to maintain basic services and functions." The CESP IAG Team will develop a County Energy Resilience Plan as part of the ongoing energy planning process and will be integrated into the CESP. This will likely include the development of microgrids and community resiliency centers.



6. Prioritizing Actions

6.1 CESP Ranking System

- Considering changes that occur with energy technology, energy policy and other issues related to the CESP, it is important that the plan be considered as a living document. It is possible that opportunities or actions could be adjusted based on implementation progress, technological advances, or regulatory changes. The IAG team proposes to semi-annually track progress towards the goal and implementation activities and to update the plan every 5 years while also providing to the surrounding community information on the CESP goal and implementation process.

Figure 8 illustrates the process the CESP Leadership Team utilized to develop Goals, Strategies and Potential Actions resulting in a list of projects. Finally, a project prioritization matrix was developed in order to rank projects as described below.

Figure 8. Prioritizing Actions Process

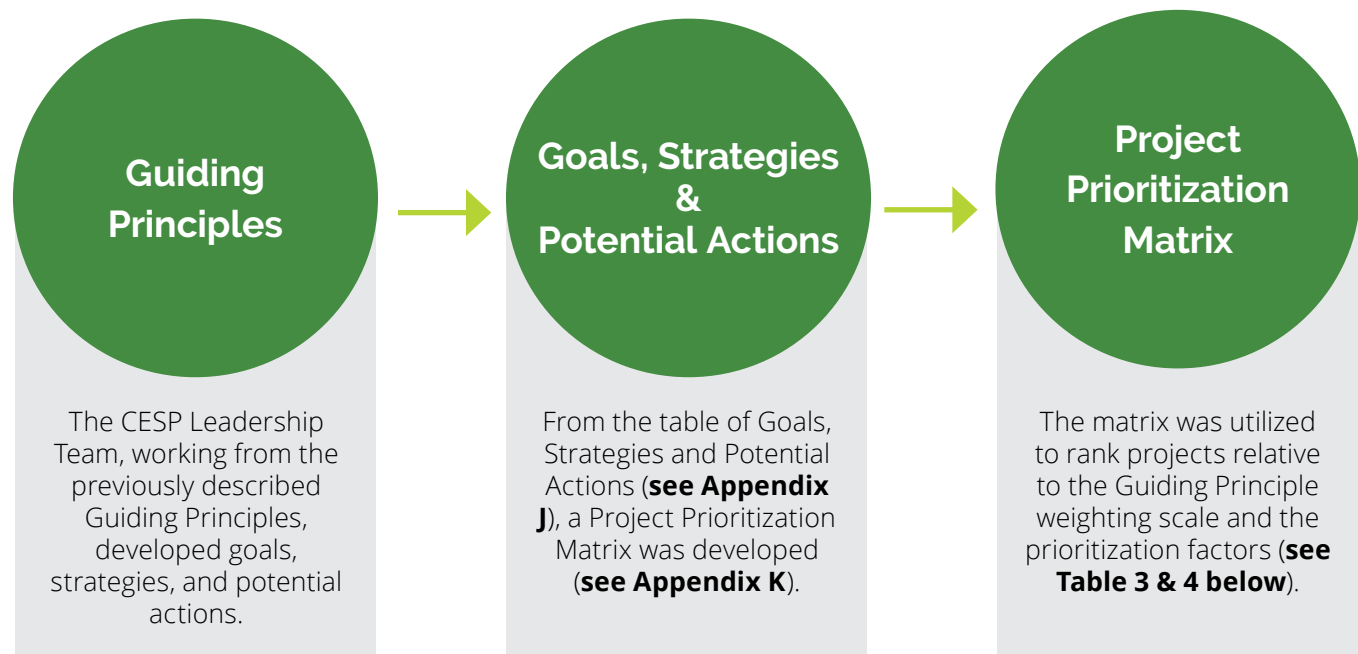


Table 3. Prioritization Factors for Ranking

- Community Wide Benefits:** Focuses on how the project benefits the community as a whole
- Achievable / Practical:** Very high level go/no-go practicality check
- Technically Feasible:** With current technology
- Economically Feasible:** Project economics likely to pencil
- Project Complexity:** Complexity relative rooftop solar
- High Impact:** Large gain for large group of community
- Short Timeframe:** Less than 1 year, 2 years or greater than 3 years
- Funding Potential:** Funding available, likely or unlikely at current time
- Project Readiness:** Project in progress, ready or not ready
- Project Risks:** High level - Low, moderate, high



Table 4. Guiding Principle Weighting Questions & Scale

GUIDING PRINCIPLE	WEIGHTING QUESTION	WEIGHTING SCALE	
Conservation	Will the project lead to energy conservation?	Community Scale = 5 Residential Scale = 1 No = 0	Municipal Scale = 2 Adds Conservation Awareness = +1
Efficiency	Will the project lead to energy efficiency?	Community Scale = 5 Residential Scale = 1 No = 0	Municipal Scale = 2 Adds Efficiency Awareness = +1
Energy Resilience & Security	Will the project add to energy resilience, security, health & safety?	Community Scale = 5 Residential Scale = 1 No = 0	Municipal Scale = 2 Adds Resilience Awareness = +1
Local Renewable Energy Development	Will the project add to local RE KWH?	Community Scale = 5 Residential Scale = 1	Municipal Scale = 2 No = 0
Financial Benefit	Will the energy project provide financial benefit?	Eases community energy burden = +3 (additive) Creates Jobs = +3 Benefits Individuals = +1 No Financial Benefit = 0	
Environmental Stewardship	Will the project enhance environmental stewardship?	Reduces Community Fossil Footprint = +5 (additive) Reduces Municipal Fossil Footprint = +2 Reduces Residential Fossil Footprint = +1 Adds Environmental Awareness = +1 No Enviro Benefit = 0	
Social Responsibility	Will the project promote Social Responsibility?	Inclusive of all community members = +1 (additive) Accessible to all community members = +1 Promotes Equity = +1 Helps those in greatest need = +3 No Social Responsibility Element = 0	

6.2 Priority Actions by Guiding Principles

- The CESP Leadership Team produced a list of thirty-four recommended actions falling under the objectives for the guiding principles of Conservation, Efficiency, Energy Resilience and Security, Local Renewable Energy Development, Financial Benefit, Environmental Stewardship and Social Responsibility for implementation.

The list of thirty actions have significance to multiple guiding principles and as such may fulfill multiple objectives of different guiding principles as they are implemented. Such an example is provided in **Figure 9** below.

Among the thirty recommended actions, the Leadership Team selected six actions to take the initiative in implementation. These six actions, summarized below, were chosen based on the matrix with some of the higher ranked actions that focused on high impact, short timeframe, project readiness,

equitable and cost-effective, and would provide momentum to move forward in implementing future recommended actions. “Easier” strategies can be implemented without requiring a change to State or Federal law or policy, implemented by building on planned projects and started quickly without significant investment. In addition to ease of implementation the CESP Leadership Team evaluated each action by cost effectiveness, energy savings potential, benefits to the local economy and providing help to those that need it most. For each of the sections below, the actions with the highest score are rated first.



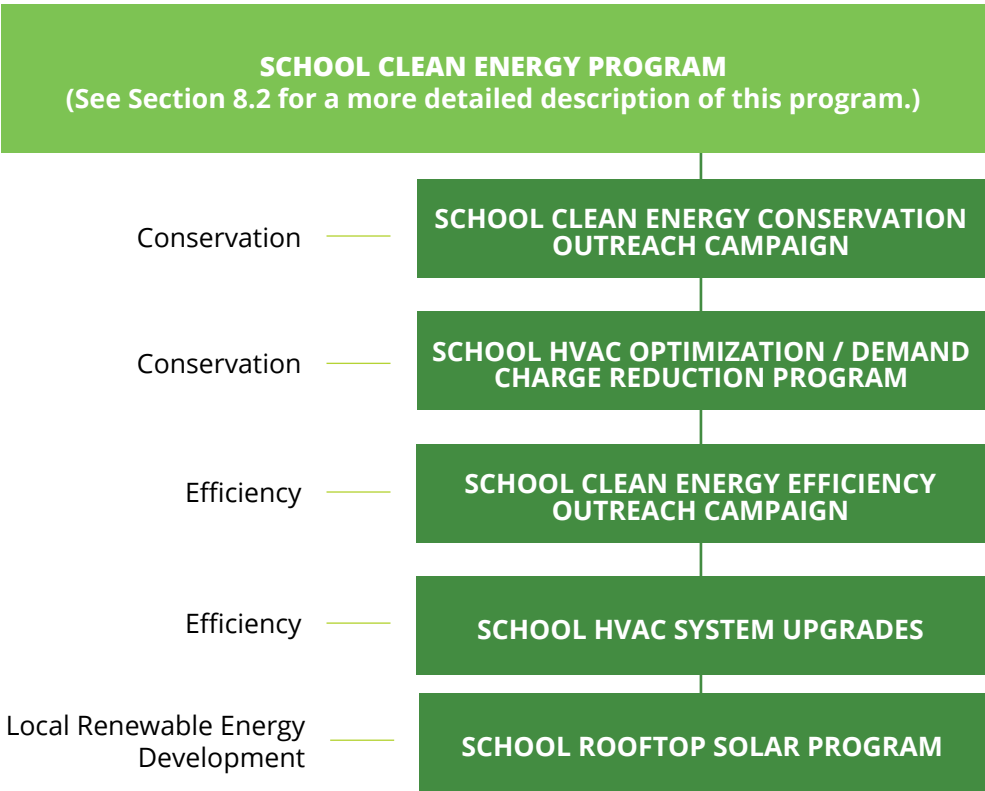
See **Section 8.2** for a detailed description of each one of these targeted actions.

- 1. Wallowa County Microgrid Resiliency Corridor Project
- 2. Electric Fleet Vehicle/Mass Transit Program
- 3. Truck and Trailer crew or Weatherization Program
- 4. City Crosswalk and Solar Street Lighting
- 5. School Clean Energy Program
- 6. Residential Solar

It is important to note that the targeted actions are the starting point moving forward prioritized objectives, and working toward Wallowa County energy goals. The actions set specific results for the community to achieve using available resources. The CESP is a living document, requiring updates as actions are implemented and semi-annual evaluations of the priorities and available resources.

Additionally, the Wallowa County Board of Commissioners has decided to appoint a 7-person Community Review Panel that will review the plan every 6 months for the next 2 years. This is intended to not only provide their input as community members but to also interact with other community members on the outcome of Wallowa County's energy future.

Figure 8. Program Implementation Example





7. Financing Strategy

- Developing a sustainable funding and financing strategy will be imperative for future measures of the CESP. Fulfilling the objectives will require conventional and innovative approaches to find alternative funding options which may include committed county budget support, grant and loan support from external sources or public-private partnerships. The stakeholders with financial interests that should be involved in developing the funding strategies include regional/state officials, utilities and representatives from local financial institutions, including banks, credit unions, foundations, and bonding authorities.

A long-standing partner of Wallowa Resources, Sustainable Northwest, is developing “Project Greenlight” which includes an energy project funding tool that will be updated and managed to reflect current funding opportunities. Projects identified in this and future iterations of the Wallowa County CESP can be processed through the Project Greenlight funding tool to quickly identify potential funding opportunities providing the IAG (Implementation Advisory Group) guidance to pursue projects based on available funding. The IAG team will continue to evaluate potential funding opportunities and pursue energy projects as funding opportunities arise.

The following list represents some likely funding organizations:

[Energy Trust of Oregon](#) - An independent nonprofit organization that offers cash incentives for a variety of energy-efficiency improvements and renewable energy systems for homes, businesses, industrial facilities, agricultural operations and public and nonprofit buildings.

[Rural Energy for America Program](#) - A program that provides guaranteed loan financing and grant funding to agricultural producers and rural small businesses for renewable energy systems or to make energy efficiency improvements.

[Oregon Department of Energy](#) - Consists of several programs and incentives including: Oregon Solar + Sotrage Rebate Program, Energy Efficient Wildfire Rebuilding Incentive, Heat Pump Incentive Programs, Community Renewable Energy Grant Program, Rural & Agriculture Energy Audit Program, Energy Incentives & Grant Programs.

[US Department of Energy](#) - Provides funds through the Weatherization Assistance Program (WAP) to reduce energy costs for low-income households by increasing the energy efficiency of their homes. Also provides funding and technical assistance to enhance energy security, advance state-led energy initiatives, and increase energy affordability.

[Office of Clean Energy Demonstration](#) - The Office of Clean Energy Demonstrations (OCED) was established in December 2021 to help scale the emerging technologies needed to tackle our most pressing climate challenges and achieve net zero emissions by 2050. OCED is managing more than \$25 billion in funding to deliver clean energy demonstration projects at scale in partnership with the private sector to accelerate deployment, market adoption, and the equitable transition to a decarbonized energy system.



8. Blueprint for Implementation

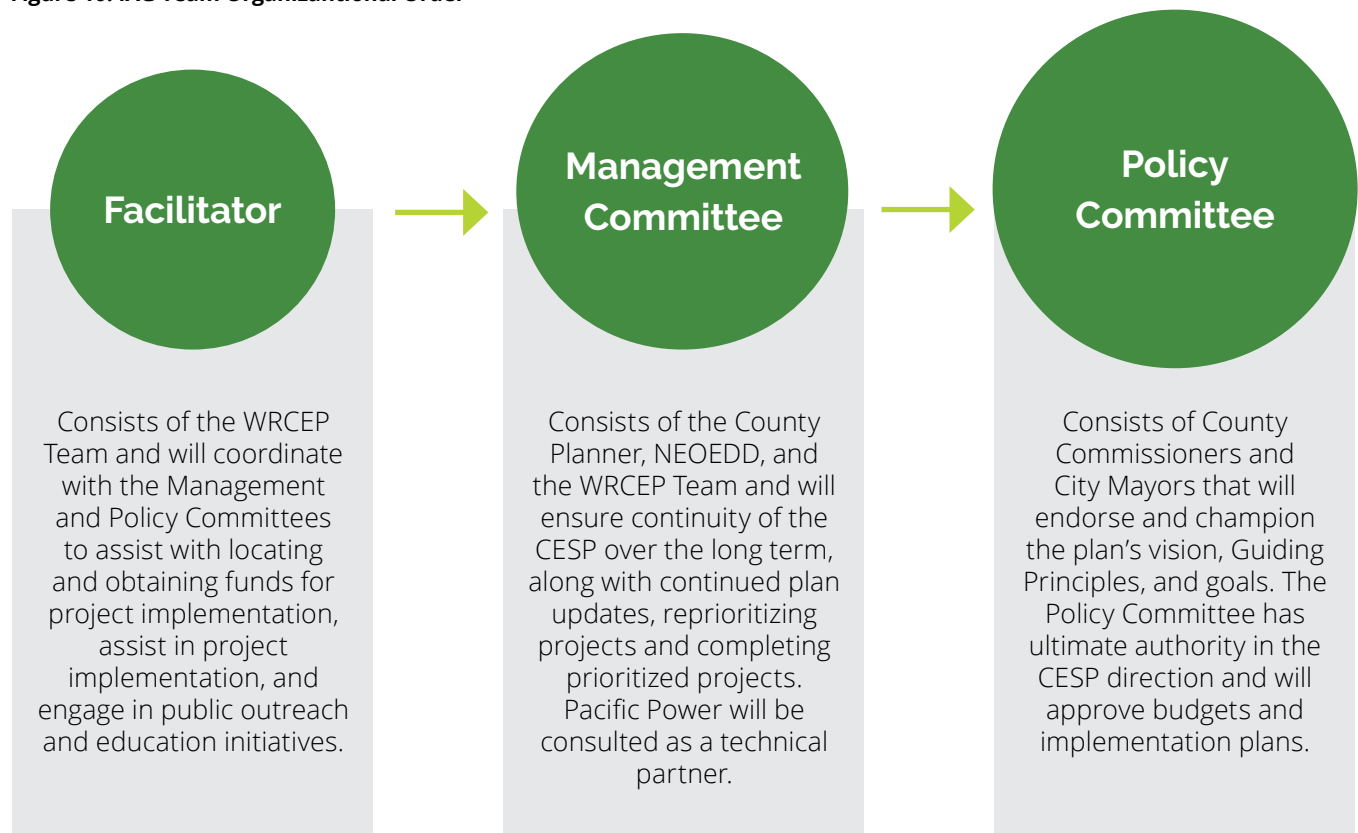
8.1 The Implementation Advisory Group

- Monitoring and evaluation of the progress of strategies is necessary for Wallowa County to ensure effective CESP implementation and that there is accountability for action. Using the goals and strategies identified within the matrix, the IAG will undertake the monitoring and reporting processes.

The Wallowa County Energy Strategic has been adopted (**see County Resolution in Appendix M**) by the County Commissioners as a standalone plan and will be under the authority of the County Planning Director. With the initial CESP planning effort completed and shifting to implementation, an Implementation Advisory Group (IAG) was developed and will manage the organization of implementing projects and foster community support and awareness. The Planning Director will conduct the required semi-annual review of the plan with the IAG Team in order to track project status, pursue funding opportunities and new projects as prioritized in the CESP and to perform continued updates, and encourage public review and participation in the CESP.

The CESP IAG Team is a tiered organization headed by elected officials as depicted in the following organization order. **See Figure 10 for description of roles.**

Figure 10. IAG Team Organizational Order





8.2 The Future of the CESP

The CESP's goal is to ensure access to reliable, affordable, clean, and abundant energy and efficiency so all Wallowa Countians can live, work, and raise a family in a growing and thriving community.

The CESP's comprehensive energy approach includes a pragmatic set of Guiding Principles:

- » **Conservation**
- » **Efficiency**
- » **Energy Resilience and Security**
- » **Local Renewable Energy Development**
- » **Financial Benefit**
- » **Environmental Stewardship**
- » **Social Responsibility**

In the future, this interpretation could be modified based on advances in energy technology, regulatory changes, or other relevant reasons.

The details of this plan currently reflect implementation for future goals and opportunities which will be adjusted and corrected with future plan updates to match the needs for Wallowa County. The CESP does not attempt to predict every technological innovation

or long-term change in the production, consumption and distribution of energy. The CESP embraces flexibility and supports multiple technologies as a path to provide for growing energy needs balanced with reasonable cost and with the expectation that energy resources will change over time as more efficient technologies are adopted. The use of a CESP framework and guiding principles can drive consensus that unites the Wallowa County community and sets the tone for a practical approach that will serve into the future.

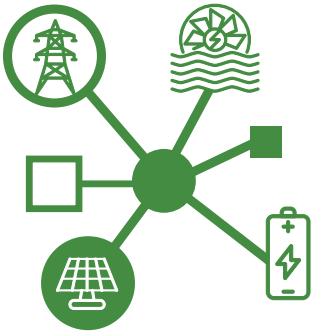
The IAG team will have primary responsibility for carrying out project review for implementation projects semi-annually and to track and make amendments based on progress. Additional plan iterations should include the identification of additional partners, resources, technologies, incentives, or funding sources, and/or the adjustment of strategies to meet the CESP goals along with additional actions for continued project implementation. These iterations will also include the most current energy profile data for Wallowa County.

Energy Touches Everything!

Energy is a critical component of Wallowa County's economy and future using millions of dollars annually to heat, cool, travel, and power our homes and businesses. More than that, energy affects EVERYTHING we need and do from food prices to recreation.



- The following projects will take precedence in the implementation process:



Wallowa County Microgrid Resiliency Corridor Project

Very early in the CESP process, the Leadership Team discussed the need for energy resilience for critical facilities. With vulnerabilities associated with our remote, rural community, extreme weather conditions potentially affecting access to external goods and services, and the high likelihood of wildfires, community leaders have historically looked into ways to provide energy resilience. A number of critical infrastructure facilities have been equipped with diesel generators for that purpose. Expanding the energy resilience of Wallowa County to include community shelters, medical facilities, municipal drinking water and sewer systems, emergency services, fuel and grocery suppliers will require a county wide solution. This solution has evolved into a goal of the CESP project, the Wallowa County Microgrid Resiliency Corridor.

The Microgrid Resiliency Corridor is currently in the planning stages with funding from both the Oregon Department of Energy and US DOE. The project planning includes specific critical loads similar to those listed above in each of the three major cities, Wallowa, Enterprise and Joseph. These loads will be matched to local renewable generation facilities in each of the cities forming a resilience hub in each city with each of the 3 hubs to be interconnected for increased system resilience and operational capabilities. The Wallowa resilience hub is anticipated to be primarily powered with forest restoration biomass generation and solar, Enterprise primarily solar and Joseph primarily fish-compatible hydropower.



EV Buses & Delivery Fleet/Mass Transit Program

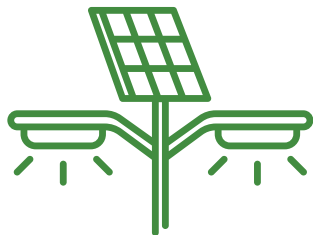
The transportation sector, as compared to other sectors, has the highest energy cost in Wallowa County therefore this program is to reduce vehicle travel, to promote mass transit, and to transition fleet vehicles to electrification. This program is centered on working with partners at the federal, state, regional and local levels to proactively address transportation and transit issues, including creating regional transportation solutions to decrease transportation cost, and support increased vehicle electrification and fuel efficiency standards.



Truck and Trailer Crew or Weatherization Program

The Weatherization Program aims to reduce energy costs for homeowners and tenants with high energy burdens by increasing the energy efficiency of their homes, while improving their health and safety. Many households within Wallowa County are in a high energy burden. Weatherization measures can help reduce this high energy burden. Weatherization also benefits the community as a whole by creating jobs and reducing the export of energy dollars.

Implementation of the Weatherization Program will include professionally trained crew members that will complete energy audits to determine the most cost effective energy efficiency measures appropriate for each home. The program will also utilize a special truck/trailer that allows crew members to travel together and bring all the necessary equipment and materials to each site. This will allow for the crew's work to be more efficient and reduce travel time and fuel costs.



City Crosswalk and Solar Street Lighting

Implementation of the Crosswalk and Solar Lighting Program will occur in the towns of Joseph, Enterprise and Wallowa. It will include push-button-activated, illuminated crosswalk signals that will be solar-powered, feature energy efficient LED lighting, and provide pedestrian safety at busy intersections. The location of the crosswalk signals is yet to be determined.

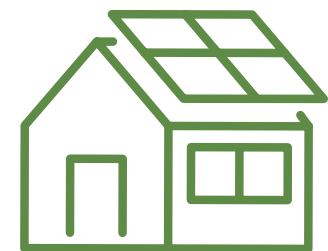
This program will also consist of replacing street lights within all three towns with solar-powered streetlights and energy efficient LED lighting. This will reduce electrical costs, improve safety and save money for local governments.



School Clean Energy Program

The School Clean Energy Program considers a suite of projects ranging from energy conservation and efficiency education and outreach to projects that will reduce the energy expense as well as increase energy resilience of school facilities. A campaign to install rooftop solar arrays at each school as turnkey projects with completed funding packages is the primary goal. The solar projects could be coupled with battery storage in order to add a resilience component to each facility. There is considerable funding available for solar plus storage projects at the time of this writing.

A separate project that has been identified is to instrument and monitor school power demand primarily for heating and cooling in order to add smart programming to these systems to reduce power demand charges. This programming may also be employed to optimize system operation to reduce energy consumption for each of the school buildings.



Residential Solar

The Residential Solar Program was identified for increased rooftop solar development across Wallowa County with a focus, whenever possible, on residents with high energy burdens. This program will primarily involve sourcing and stacking solar incentives such that projects are in reach for more LMI residents and working families.



9. Plan to Evaluate

- Considering the changes that are occurring currently with renewable energy technology, energy policy and other issues, it is important that the plan be considered as a living document. It is possible that opportunities or actions could be adjusted based on implementation progress, technological advances or regulatory changes. The IAG team proposes to meet semi-annually to track goal and implementation activities, to prepare a progress report every two years (starting in 2024) and to update the plan every five years during the implementation timeframe.

Actions will include:

-
- » **Develop reporting templates and tools to track progress of implementation activities**
 - » **Develop a schedule to complete periodic updates to the planning document**
 - » **Provide complete transparency to the Wallowa County community on the progress of the CESP through social and print media, events, surveys and other varieties of effective messaging**
-



10. Conclusion

- Based on the work of the CESP Leadership Team, feedback from the surveys, and stakeholder group input, Wallowa County now has a list of next steps (**see targeted projects in Section 8.2**) to reach the goals of becoming a more sustainable and more resilient community. This CESP is also the starting point to help define future actions and strategies. In addition, this newly adopted CESP will be announced to the public in various formats such as a press release, partner websites and partner newsletters that will direct the public to locations where the plan can be viewed.

10.1 Acknowledgments

Wallowa County thanks numerous individuals and organizations for contributing to the development of the CESP. This Plan could not have become a reality without the time and effort of these individuals.

- Wallowa County Board of Commissioners:
 - » John Hillock
 - » Susan Roberts
 - » Todd Nash
- Franz Goebel - Wallowa County Planning Director
- Leadership Team Members:
 - » Ryan Sheehy, Sara Miller, Travis Boyd, Paul Karvoski, Stacy Beckman, Andy McKee, Joe Dawson, Franz Goebel, Jennifer Piper, Dan McCarthy, Emily Bratcher
 - » Special thanks to Mike Hayward, Team Chairman, for keeping the team on task and providing momentum.
 - » Nils Christoffersen and John Hillock - CESP Champions
- Energy Trust of Oregon - Project partner and primary funder.
 - » Kyle Petrocine and Caryn Appler
- Wallowa Resources - Project support and funding
 - » Joe Basile - WRCEP Team Program Manager
 - » TRP Creative Resources - Tara Porter - CESP Project Team
 - » Gavin Collier - WRCEP Team Member
 - » Susan Badger-Jones - Former WRCEP Team Member and Project Advisor
- Eric Strid - [OCLEAP](#) tool developer and project advisor
- Sustainable Northwest - Project Greenlight
- Grace Andrews - [Best Practices for Community Energy Planning in Rural Oregon](#)
- **Wallowa County Residents!!!**



Appendices

Appendix A. Wallowa County Letters of Support

Nils Christoffersen
Wallowa Resources
401 NE 1st St. Suite A
Enterprise, OR 97828

Todd Nash
Wallowa County Commissioner
Enterprise, OR 97828

RE: Letter of Support: Wallowa County Energy Planning

Dear Nils,

This is to confirm Wallowa County Board of Commissioners support for the Wallowa County Energy Plan effort being proposed by Wallowa Resources. The effort would produce a county for energy resilience through local energy efficiency, energy production and wise use, while at the same time contributing local rural economic development.

Modeled on energy planning efforts in other rural western communities, this plan would create a roadmap for increasing community agency over our energy mix and supply, create more community energy resilience in the case of a natural disaster such as catastrophic wildfire – or any other interruption to the inter-state grid.

Implementation of the plan will keep energy monies circulating locally and create important new opportunities for our businesses, landowners, and project developers, capitalizing on our abundant natural resources and supporting their bottom lines.

Wallowa County strongly supports the proposed energy planning effort and commits to providing letters of support as you seek funding, and provide general support for outreach, planning and implementation.

Sincerely,

Todd Nash
Wallowa County Commissioner



Nils Christoffersen
Wallowa Resources
401 NE 1st St. Suite A
Enterprise, OR 97828

Susan Roberts
Wallowa County Commissioner
Enterprise, OR 97828

RE: Letter of Support: Wallowa County Energy Planning

Dear Nils,

This is to confirm Wallowa County Board of Commissioners support for the Wallowa County Energy Plan effort being proposed by Wallowa Resources. The effort would produce a county for energy resilience through local energy efficiency, energy production and wise use, while at the same time contributing local rural economic development.

Modeled on energy planning efforts in other rural western communities, this plan would create a roadmap for increasing community agency over our energy mix and supply, create more community energy resilience in the case of a natural disaster such as catastrophic wildfire – or any other interruption to the inter-state grid.

Implementation of the plan will keep energy monies circulating locally and create important new opportunities for our businesses, landowners, and project developers, capitalizing on our abundant natural resources and supporting their bottom lines.

Wallowa County strongly supports the proposed energy planning effort and commits to providing letters of support as you seek funding, and provide general support for outreach, planning and implementation.

Sincerely,

Susan Roberts
Wallowa County Commissioner



Nils Christoffersen
Wallowa Resources
401 NE 1st St. Suite A
Enterprise, OR 97828

John Hillock
Wallowa County Commissioner
Enterprise, OR 97828

RE: Letter of Support: Wallowa County Energy Planning

Dear Nils,

This is to confirm Wallowa County Board of Commissioners support for the Wallowa County Energy Plan effort being proposed by Wallowa Resources. The effort would produce a county for energy resilience through local energy efficiency, energy production and wise use, while at the same time contributing local rural economic development.

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Wallowa County strongly supports the proposed energy planning effort and commits to providing letters of support as you seek funding, and provide general support for outreach, planning and implementation.

Sincerely,

John Hillock
Wallowa County Commissioner



Appendix B. Leadership Team Conflict of Interest Policy



WALLOWA COUNTY Community Energy Strategic Plan

CESP LEADERSHIP TEAM CONFLICT OF INTEREST POLICY

CONFLICTS OF INTEREST

Effective Date: 5/18/2022

What is a conflict of interest?

An actual or potential conflict of interest is when you are in a position to influence a decision or have business dealings on behalf of the CESP Leadership Team that might result in or give the appearance of, personal gain for you, a relative or family member, a business associate or someone with whom you have a close personal relationship.

CESP Leadership Team Responsibility

It is your responsibility as a member of the CESP Leadership Team to avoid conflicts of interest. If this is not clear to you or if you have questions about conflicts of interest, contact the Leadership Chairman or CESP Plan Manager.

Disclosure

As a member of the CESP Leadership Team, you must disclose to the best of your knowledge all potential conflicts of interest as soon as you become aware of them to the CESP Leadership Team Chairman. Disclosure must occur before any actions involving the potential conflict are taken. CESP Leadership Team members are required to recuse themselves from such deliberation, actions, decision making or voting when a potential conflict of interest has been disclosed. The Chairman may invite input if relevant, appropriate and transparent.

Resolution

The Leadership Team Chairman will determine whether a conflict of interest exists, and, if so, make recommendations on how the matter should be addressed to the CESP Plan Manager. The CESP Plan Champions will provide direction for conflict of interest resolution and methods for documentation if deemed necessary.



Appendix C. Leadership Team Charter



WALLOWA COUNTY Community Energy Strategic Plan

LEADERSHIP TEAM CHARTER

Energy is a critical component of the Wallowa County economy. It's estimated that residents spend between \$30 and \$40 million each year to heat and power their homes and businesses as well as fuel their cars, trucks, tractors and other vehicles. Most of those dollars currently leave the County. Our energy infrastructure is aging and has limited capacity. Developing a CESP can identify new opportunities to lower residents' energy costs, keep energy dollars local to stimulate the economy by increasing energy efficiency, increasing renewable energy capacity and promote local energy related jobs. It also will address community energy resilience—the ability to power critical services during non-routine power outages.

This plan is guided by the US Department of Energy's Guide to Community Energy Strategic Planning. This project is funded largely by a grant from Energy Trust of Oregon.

The following are suggested elements of an effective Leadership Team Charter:

Date of Ratification: May 18th, 2022.

- **Team Statement of Objective:**
To guide a scope of work to co-create a replicable community-led energy planning process by developing a Community Energy Strategic Plan (CESP) for Wallowa County that includes deep public education and public participation. The final product will be a prioritized list of energy conservation, energy efficiency, energy generation and energy resilience projects opportunities, identifying all energy and non-energy benefits. The plan will also include short and long-term strategies for funding and implementing the projects.
- **Leadership Team Chair:** Mike Hayward
- **Leadership Team Charter Members:** Stacy Beckman, Paul Karvoski, Dan McCarthy, Jennifer Piper, Ryan Sheehy, Andy McKee, Franz Goebel, Sara Miller, Joseph Dawson, Travis Boyd
- **Project Scope**
 - » This is a Community-wide CESP—a broad “ground-up” process-- which will include local voices from residential, commercial, industrial, agriculture, transportation, government and other sectors of the community. It will include comprehensive education and public engagement.
- **Specific Roles and Responsibilities** — Each of these roles bring valuable credibility, political will, visibility and inspiration of pride in the project. This is something we all aspire to and will hold ourselves accountable for as values underpinning the project.
 - » **Plan Sponsor:** Wallowa County Commissioners
 - The project endorsement through letters of support of the County Commissioners provides legitimacy, resources, and public recognition to the process.
 - » **Plan Champions:** John Hillock, Wallowa County Commissioner; Nils Christoffersen, Wallowa Resources Executive Director
 - Champions provide the governmental and community top-level leadership and authority for the CESP, including the ability to direct staff time and provide final approval for policy and budgetary decisions.
 - **Plan Manager:** Joe Basile, Wallowa Resources Community Energy Program Manager
 - The Plan Manager is a senior manager with skills, time, and resources needed to successfully orchestrate and develop a complete plan. He has direct access to the Champions.
 - The Plan Manager is an administrative member of the Leadership Team.
 - » **Leadership Team Members**
 - Leadership Team members are individuals who represent diverse voices of the community and government and those who may be involved with energy-related issues. This group helps engage the community and provides high-level leadership to drive a successful planning process.
 - Leadership Team members will make recommendations for final decision-making.
 - Members will guide the identification of key stakeholders and plan the stakeholder engagement with the Plan Manager facilitating and managing the logistics. Leadership Team members may have varying roles and time commitments in this stakeholder engagement.



WALLOWA COUNTY Community Energy Strategic Plan

LEADERSHIP TEAM CHARTER

- Meeting Schedules
 - » Leadership Team is expected to quickly establish and commit to a set schedule of monthly meetings up to 18 months.
- Communication Plans
 - » Plan Manager and WRCEP team is responsible for internal and external communications.
 - » Methods and paths for internal and external communication about CESP activity will be reviewed with Leadership Team Members. There are two plans:
 - Monthly update to Energy Trust of Oregon
 - Community Engagement Communication Plan
- Team Ground Rules
 - » Will be determined by the group in an early facilitated meeting and would typically include commitments to participate in meetings, on-time commitment, internal meeting behaviors/etiquette, observation of equity language, etc.
- Decision-making Rules
 - » In an early meeting the group will determine:
 - Process by which decisions/ recommendations will be reached – consensus, majority, etc.
 - Who acts as arbiter in the case of disputes.
 - How to deal with any conflicts of interest.
- Timeline for the Team's Tenure & Time Commitment
 - » Tenure is estimated to be up to 18 months.
 - » Meet monthly.
 - » Be involved in some way with one or more Stakeholder Group(s) each month.
 - » We are envisioning a 1-hour monthly meeting plus a variable monthly time commitment depending on each leadership team member's availability. This could be a few hours per month for adequate interaction with stakeholders.
- Empowerment Level – The role of the Leadership Team relative to final authorization of actions.
 - » Leadership Team has authority to make final recommendations to others, but not empower actions.
 - » Authority to empower actions lies with project champions, Commissioner Hillock and Nils Christoffersen, and Leadership Team Chair, Mike Hayward.
- Process for Feedback on Team Effectiveness
 - » Team will determine a quick method for regular feedback on its effectiveness.

Commitment

I understand and agree to participate in the Wallowa County Community Energy Strategic Planning Leadership Team as outlined above.

Signature: _____

Name: _____

Date: _____



Appendix D. Leadership Team Ground Rules – Decision Making Rules

Team Ground Rules:

- Be on time and actively present, which includes being on-screen in hybrid meeting.
- Everyone participates (create space for others to speak, speak up if you are usually quiet).
- One person speaks at a time - no side conversations.
- Practice active listening – listen for understanding.
- Cell phones off or silent.
- Make your point efficiently – focus on the topic at hand.
- Engage in dialogue, not argument, try to put yourselves in the shoes of others.
- Accept non-closure, as we may not have a solution at the moment
- Confidentiality: Stories stay – learning goes, disclose when information is truly confidential.
- Respect others' differences.
- Speak first person about your own experience.
- Assume best intentions and attend to impact.
- Be open to being influenced.
- Acknowledge the political climate we live in and its effects on our community.
- *Have fun!*

Decision-Making Rules:

- Make decisions and recommendations based on consensus.
- Settle disputes using a facilitated process called “Fist to Five”. Blind polling can also be used in the case of hybrid meeting.
- Follow the adopted Conflict of Interest Policy.



Appendix E. Leadership Team Elevator Speech



THE COMMUNITY ENERGY STRATEGIC PLAN IS US TAKING A HARD LOOK AT HOW WE USE ALL KINDS OF ENERGY IN THE COUNTY RIGHT NOW.

- 1** What can we do to lower energy costs for everyone?
- 2** How can we put those saved dollars to work locally?
- 3** How can we ensure we have stable, reliable access to energy for critical services in times of emergency?
- 4** How can we be good stewards of the environment?

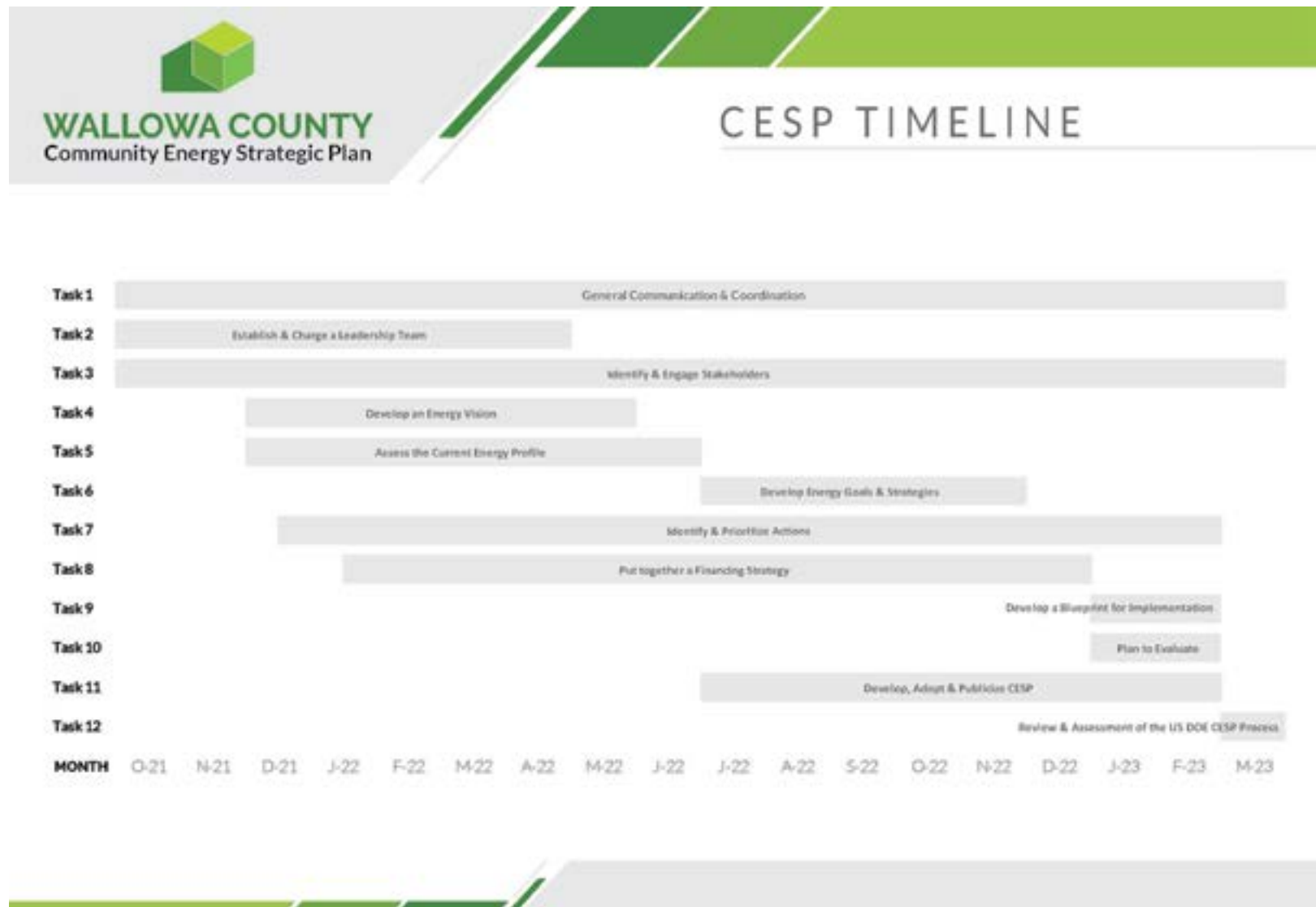
This Energy Plan delivers a comprehensive prioritized list of local energy opportunities with short- and long-term strategies and funding and to make projects happen.

**INTERESTED?
CONTACT US**

✉ joe@wallowaresources.org ☎ 541.561.4426
💻 www.communityenergyprogram.org/energy-plan



Appendix F. CESP Timeline





Appendix G. Stakeholder Group Examples



WALLOWA COUNTY
Community Energy Strategic Plan

STAKEHOLDER
GROUP EXAMPLES

STAKEHOLDER GROUP EXAMPLES	
Ag	Emergency Services
Transporation	Developer
Retail	Natural Hazard Planning for County
Economic Development	Realtor - Housing
Housing - Residential	Agencies
Low Income Housing	Broadband Internet Provider
Workforce Housing	Pacific Power
New home, building construction	Idaho Power, Clearwater customers
Education	Energy Efficiency
Transportation	Commercial Lodging
Elected Officials	Tribal Representation
Small Business	Public Lands, Facilities, Transportation
Energy	USFS
Facilities	ODFW
Hospital Facilities	NRCS, Conservation Dist.
Municipalities	USDA
Chamber of Commerce	ODFW
Public Health (health related to air quality)	State Parks
Community Connections - Energy Efficiency	Non-Profits



Appendix H. CESP Outreach Printed Materials

Stickers/Buttons





Invoice Stuffers

**WALLOWA
COUNTY**
Community Energy Strategic Plan
(CESP)

**WE HAVE
GOOD
ENERGY**

**BE PART OF CREATING
WALLOWA COUNTY'S
GOOD ENERGY FUTURE!**

In order to proactively plan and manage its energy future, Wallowa County has just launched a Community Energy Strategic Planning (CESP) process. It will create an energy blueprint for the next 10-20 years—with a special focus on lowering energy costs, keeping energy dollars working locally and stabilizing energy access for the County's "end of the line" communities.

**LEARN HOW YOU CAN PARTICIPATE IN SMALL
WORK GROUPS, INFO SESSIONS, SPECIAL EVENTS
AND MORE!**

CONTACT
Joe Basile
✉ joe@wallowaresources.org

 **OR GO TO:**
communityenergyprogram.org/energy-plan



**WALLOWA
COUNTY**
CESP

communityenergyprogram.org/energy-plan

**ENERGY
TOUCHES
EVERYTHING**

COLLABORATION
Community Energy Strategic Planning (CESP) is a collaboration between the Wallowa County Commission and Wallowa Resources Community Energy Program with funding from Energy Trust of Oregon. It is guided by a local Leadership Team.

THE LEADERSHIP TEAM

Mike Hayward – Chair
Former Commissioner & Wallowa County Grain Growers General Manager

Stacy Beckman
Wallowa County Grain Growers

Travis Boyd
Wallowa Valley Networks

Emily Bratcher
Wallowa Resources Youth Education

Joe Dawson
Agriculture/Real Estate

Franz Goebel
Wallowa County Planning Director

Paul Karvoski
Wallowa County Emergency Management

Dan McCarthy
Hospital Facilities Manager

Andy McKee
Developer

Sara Miller
Northeast Oregon Economic Development District

Jennifer Piper
Wallowa County Chamber of Commerce

Ryan Sheehy
Fleet Solar Development



Community Information Sheet



WALLOWA COUNTY Community Energy Strategic Plan

COMMUNITY INFORMATION SHEET

This is a short update on The County's new Community Energy Strategic Planning Process, now lifting off the ground. This is important to every segment of our community—from residential to Ag to business and beyond. An 11-member Leadership Team has been formed and is committing several hours a month over the coming 18 months, to make sure the whole spectrum of county concerns and interests are addressed and reap benefits.

Here's why it matters to us:

- Energy Touches Everything!
- Energy is a critical component of the County's economy—and we all together use \$30-\$40 Million each year to heat, cool, travel and otherwise power our homes and businesses. And cost rises every year.
- Sadly most of these dollars currently leave our community.
- Our energy infrastructure is aging and has limited capacity.
- We are "end-of-the-line" communities at higher risk for power shut downs due to catastrophic fire and extreme weather and other occurrences.

A Community Energy Strategic Plan is a proven way to:

- Identify new opportunities to lower energy costs for everyone,
- To keep energy dollars here, working locally,
- To stimulate the local economy by:
 - » Increasing energy efficiency of buildings and processes',
 - » Increasing local renewable energy generation,
 - » Creating and supporting local energy jobs, including training for young people,
- Insure Community Energy Resilience—the ability to power critical services during non-routine power outages.

This is a plan to get important stuff done!

- It's a broad "ground-up" process that will include many local voices from Residential, Commercial, Industrial, Ag, Transportation, Business and other sectors of our communities via stakeholder working groups.
- Creates a blue print for the next 10 -20 years and coordinates with other planning, such as those for secure health care delivery, hazard mitigation, etc.
- Delivers a comprehensive prioritized list of local energy opportunities, with short and long-term strategies for funding and making projects happen.
- It's a dynamic plan, designed to change and keep pace with changes.

The Origins:

- We're using a planning guide developed by US Department of Energy and that has already been successfully used by many communities.
- See reverse side for Wallowa County Leadership Team Org Chart.

A Leadership Team members role is to:

- Help create and then work with a small group of business stakeholders to make sure the plan includes what matters to all of us,
- Make recommendations for final decision-making,
- Keep you and others in the community up to date on developments and clued in to opportunities.



Info Brochure

CESP PROCESS

- 01 Establish & Charge a Leadership Team
- 02 Identify & Engage Stakeholders
- 03 Develop an Energy Vision
- 04 Assess the Current Energy Profile
- 05 Develop Energy Goals & Strategies
- 06 Identify & Prioritize Actions
- 07 Develop Financing Strategy
- 08 Develop a Blueprint for Implementation
- 09 Plan to Evaluate
- 10 Develop, Adopt & Publicize CESP

WHAT'S NEXT?

Implementation!

Be part of creating Wallowa County's GOOD ENERGY future!

WALLOWA COUNTY

COMMUNITY ENERGY STRATEGIC PLAN

CONTACT

Joe Basile

joe@wallowaresources.org

541.426.8053

Fill out the SWOT Questionnaire to help us understand your energy concerns. GO TO:

communityenergyprogram.org/energy-plan

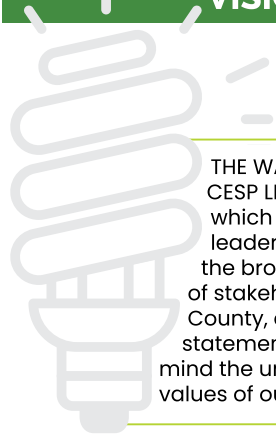
OR SCAN:

ENERGY TOUCHES EVERYTHING

Photo by:
Ellen Morris Bishop



WHAT IS THE VISION?



THE WALLOWA COUNTY CESP LEADERSHIP TEAM, which consists of leaders representing the broad cross-section of stakeholders in our County, crafted the vision statement keeping in mind the unique and diverse values of our residents.

VISION STATEMENT

The Wallowa County Community Energy Plan is a living blueprint for energy self-reliance and security supporting community health and economic vitality. It advances energy conservation, efficiency, local generation, and resilience infrastructure as it protects water and other natural resources, reduces fossil fuel dependence and keeps more energy dollars local.

WHY DEVELOP A CESP?

Wallowa County residents and businesses currently spend around \$30-40 million every year on various kinds of energy for heat, power and transportation! These costs can be significantly lowered and at the same time create other valuable Energy-Plus benefits.

A CESP can provide guidance and stability for short-term action and serve as a roadmap for making the right investment decisions for decades to come.



Protection of natural resources



Sustainable economic growth



Community health



Better planning and preparation for future shocks

and more...

WHO IS LEADING OUR VISION?

INCLUSION

This vision is a product of the ambitions and needs of all Wallowa County walks of life - government and its institutions, small businesses, municipalities, educational institutions, agricultural sectors, towns and communities.

ENGAGEMENT

A wide participative process with stakeholders guided by a diverse 11-member Leadership Team will lead to the creation of Wallowa County's goals and strategies, and will serve as the bedrock for achieving it.

ACTION

Achieving the vision requires a whole-of-society approach across all sectors. Creating the vision is only the first step. Developing goals and strategies, and implementing those goals and strategies will lead to a more sustainable and resilient community.

In every step of the process, Wallowa County community members are in the driving seat!



Mini Glossary

CONTENTS

BIOMASS
BLACKOUT
BRITISH THERMAL UNIT (BTU)
BUILDING INSULATION
CAPACITY
CESP LEADERSHIP TEAM
CESP STAKEHOLDERS
CLIMATE CHANGE
COMMUNITY ENERGY RESILIENCE
COMMUNITY ENERGY STRATEGIC PLAN (CESP)
COMMUNITY HEALTH
DATA CENTER
DEPARTMENT OF ENERGY (US DOE)
DISTRIBUTION
DISTRIBUTED GENERATION
DUCTLESS HEAT PUMP
ECONOMIC VITALITY
ELECTRIC GENERATOR
ELECTRIC UTILITY
ELECTRIC VEHICLE CHARGING STATION (EVSE)
ELECTRIC VEHICLES (EV)
ENERGY CONSERVATION
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ENERGY RESILIENCE HUB
ENERGY TRUST OF OREGON
FEED-IN TARIFF
FOSSIL FUEL
FOSSIL FUEL EMISSIONS
GAS UTILITY
GENERATING STATION

GREENHOUSE EFFECT
GRID
HYBRID ELECTRIC VEHICLE (HEV)
HYDROELECTRIC POWER
INDUSTRIAL BUILDING
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KILOWATT (KW)
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LED LIGHTBULB
LITHIUM-ION
LOAD
MEGAWATT (MW)
MEGAWATT HOUR (MWH)
MICROGRID
NATIONAL RENEWABLE ENERGY LABORATORY (NREL)
OREGON DEPARTMENT OF ENERGY (ODOE)
OREGON PUBLIC UTILITY COMMISSION (OPUC)
OUTAGE
PACIFIC POWER (PAC)
PEAK LOAD OR PEAK DEMAND
POWER PURCHASE AGREEMENT (PPA)
PROPANE
R-VALUE
RELIABILITY
RENEWABLE ENERGY
RESIDENTIAL BUILDING
SOLAR ENERGY
SOLAR POWER
SUBSTATION
SUSTAINABILITY
TAX CREDITS
TARIFF
TRANSMISSION
TURBINE GENERATOR
WALLOWA RESOURCES COMMUNITY ENERGY PROGRAM (WRCEP)
WATT
WORKFORCE HOUSING



COMMUNITY ENERGY STRATEGIC PLAN

MINI GLOSSARY

B

BIOMASS

Energy resources derived from organic matter. These include wood, agricultural waste and other living-cell material that can be burned to produce heat energy. They also include algae, sewage and other organic substances that may be used to make energy through chemical processes.

BLACKOUT

A power loss affecting many electricity consumers over a large geographical area for a significant period of time.

BRITISH THERMAL UNIT (Btu)

The standard measure of heat energy. It takes one Btu to raise the temperature of one pound of water by one degree Fahrenheit at sea level. For example, it takes about 2,000 Btu to make a pot of coffee.

BUILDING INSULATION

Insulation can be defined as any type of material that serves to provide a barrier within the walls, ceilings, and floors of a home and helps regulate temperature and noise. Insulation in your home provides resistance to heat flow and lowers your heating and cooling costs.



C

CAPACITY

The amount of electric power for which a generating unit, generating station, or other electrical apparatus is rated either by the user or manufacturer.

CESP LEADERSHIP TEAM

The leadership team is an internal group of community members who are responsible in guiding a scope of work to co-create a replicable community-led energy planning process by developing a Community Energy Strategic Plan (CESP) for Wallowa County that includes deep public education and public participation.

CESP STAKEHOLDERS

Residents, environmentalists, businesses and government representatives that have an interest or concern about Wallowa County energy.

CLIMATE CHANGE

The term 'climate change' is sometimes used to refer to all forms of climatic inconsistency, but because the Earth's climate is never static, the term is more properly used to imply a significant change from one climatic condition to another. In some cases, 'climate change' has been used synonymously with the term, 'global warming'; scientists however, tend to use the term in the wider sense to also include natural changes in climate.

COMMUNITY ENERGY RESILIENCE

The ability of a community to maintain the energy needs of critical public services during non-routine power disruptions which could be severe and prolonged (WR/ODOE). The Federal Energy Regulatory Commission (FERC) defines resilience as the capacity to anticipate, adapt to, and rapidly recover from disruptive incidents.

COMMUNITY ENERGY STRATEGIC PLAN (CESP)

A long-range dynamic blueprint to focus and guide actions toward creating a defined energy vision. It is a community driven plan that sets goals, creates a comprehensive prioritized list of local opportunities, creates short- and long-term strategies and seeks out funding opportunities to implement these strategies.

COMMUNITY HEALTH

Energy planning that improves the accessibility and affordability of energy conservation, efficiency, and renewability options for households, businesses and public services and to understand and mitigate the disproportionate impacts of energy burdens present in our communities.



D

DATA CENTER

A data center is a building, a dedicated space within a building, or a group of buildings used to house computer systems and associated components, such as telecommunications and storage systems. It generally includes redundant or backup components and infrastructure for power supply, data communication connections, environmental controls, and various security devices. A large data center is an industrial-scale operation using as much electricity as a small town or county.

DEPARTMENT OF ENERGY (US DOE)

The federal department established by the Department of Energy Organization Act to consolidate the major federal energy functions into one cabinet-level department that would formulate a comprehensive, balanced national energy policy.

DISTRIBUTION

The delivery of electricity to the retail customer's home or business through low voltage distribution lines.

DISTRIBUTED GENERATION

A distributed generation system involves small amounts of generation located on a utility's distribution system for the purpose of meeting local (substation level) peak loads and/or displacing the need to build additional (or upgrade) local distribution lines.

DUCTLESS HEAT PUMP

A ductless heat pump (or mini-split) efficiently heats and cools by moving heat in or out of your home based on the season and operates without ductwork. An indoor unit is mounted on the wall of a room, with a refrigerant line connecting it to the outdoor unit.

E

ECONOMIC VITALITY

To improve the economic well-being and quality of life for a community by creating and retaining jobs that facilitate growth and provide stability.

ELECTRIC GENERATOR

A device that converts heat, chemical or mechanical energy into electricity.

ELECTRIC UTILITY

Any person or state agency with a monopoly franchise (including any municipality), which sells electric energy to end-use customers.

ELECTRIC VEHICLE CHARGING STATION (EVSE)

Infrastructure designed to supply power to EVs.



E

ELECTRIC VEHICLES (EV)

EVs use a battery to store the electric energy that powers the motor. EV batteries are charged by plugging the vehicle into an electric power source.

ENERGY CONSERVATION

The decision and practice of using less energy. Turning off the light when you leave the room, unplugging appliances when they're not in use and walking instead of driving are all examples of energy conservation.

ENERGY EFFICIENCY

Using technology that requires less energy to perform the same function. Energy-saving light bulbs, large household appliances, smart thermostats, modern windows, doors and updated insulation, are all examples of technology that can be energy efficient.

ENERGY RESILIENCE HUB

Resilience hubs are community centers that can provide reliable energy during widespread power outages. Power is often provided by a combination of renewable energy, typically solar and battery energy storage. They can often include one or more microgrids, which connect independent energy resources with energy users and can be connected and disconnected from a centralized grid as needed during power outages or depending on availability of alternative energy sources like solar.

ENERGY TRUST OF OREGON

A nonprofit organization that provides cash incentives and expertise to people planning energy-saving home upgrades and renewable energy projects. Energy Trust serves customers of PGE, Pacific Power, NW Natural, Cascade Natural Gas and Avista in Oregon and customers of NW Natural in Washington.

F

FEED-IN TARIFF

A renewable energy policy that typically offers a guarantee of payments to project owners for the total amount of renewable electricity they produce; access to the grid; and stable, long-term contracts.

FOSSIL FUEL

Oil, coal, natural gas or their by-products.

FOSSIL FUEL EMISSIONS

Most of the emissions of human-caused greenhouse gases come primarily from burning fossil fuels—coal, natural gas, and oil—for energy use. Economic growth and weather patterns that affect heating and cooling needs are the main factors that drive the amount of energy consumed. Energy prices and government policies can also affect the sources or types of energy consumed.



G

GAS UTILITY

Any person engaged in, or authorized to engage in, distributing or transporting natural gas, including, but not limited to, any such person who is subject to the regulation of the Public Utilities Commission.

GENERATING STATION

A power plant.

GREENHOUSE EFFECT

The effect produced as greenhouse gases allow incoming solar radiation to pass through the Earth's atmosphere, but prevent most of the outgoing infra-red radiation from the surface and lower atmosphere from escaping into outer space. This process occurs naturally and has kept the Earth's temperature about 59 degrees F warmer than it would otherwise be. Current life on Earth could not be sustained without the natural greenhouse effect. (EPA)

GRID

The electric utility companies' transmission and distribution system that links power plants to customers through high power transmission line service.



H

HYBRID ELECTRIC VEHICLE (HEV)

A vehicle that combines an internal combustion engine with a battery and electric motor. This combination offers the range and refueling capabilities of a conventional vehicle, while providing improved fuel economy and lower emissions.

HYDROELECTRIC POWER

Electricity produced by falling water that turns a turbine generator. Also referred to as HYDRO.

INDUSTRIAL BUILDING

A building or part thereof wherein products or material are fabricated, assembled or processed, such as assembly plants, laboratories, power plants, refineries, gas plants, mills, dairies and factories.

INTER- CONNECTION (Electric utility)

The linkage of transmission lines between two utilities, enabling power to be moved in either direction. Interconnections allow the utilities to help contain costs while enhancing system reliability.





K

KILOWATT (kW)

One thousand (1,000) watts. A unit of measure of the amount of electricity needed to operate given equipment.

KILOWATT- HOUR (kWh)

The most commonly-used unit of measure telling the amount of electricity consumed over time. It means one kilowatt of electricity supplied for one hour. For example, ten 100w lightbulbs burning for one hour will consume 1 kWh.

L

LED LIGHTBULB

LED stands for light emitting diode. An electrical current passes through a microchip, which illuminates the tiny light sources called LEDs and the result is visible light. LED lighting products produce light up to 90% more efficiently than incandescent light bulbs.

LITHIUM- ION (Li-Ion) BATTERY

A type of rechargeable battery. In the batteries lithium ions move from the negative electrode to the positive electrode during discharge and back when charging. Most plug-in hybrids and all-electric vehicles use lithium-ion batteries.

LOAD

The amount of electric power supplied to meet one or more end user's needs.

M

MEGAWATT (MW)

One-thousand kilowatts (1,000 kW) or one million (1,000,000) watts. One megawatt is enough electrical capacity to power a mix of approximately 1000 homes and businesses.

MEGAWATT HOUR (MWh)

One-thousand kilowatt-hours, or an amount of electrical energy that would supply 1,370 typical homes in the Western U.S. for one month. (U.S. DOE EIA, 1997 annual per capita electricity consumption figures).

MICROGRID

A combination of localized electricity generation sources, energy storage devices, and multiple loads that acts as a small electric grid with respect to the main electric grid. The microgrid can operate interconnected or isolated from the main electric grid.



N

NATIONAL RENEWABLE ENERGY LABORATORY (NREL)

The National Renewable Energy Laboratory (NREL), located in Golden, Colorado, is the United States' primary laboratory for renewable energy and energy efficiency research and development. NREL is the only Federal laboratory dedicated to the research, development, commercialization, and deployment of renewable energy and energy efficiency technologies.

O

OREGON DEPARTMENT OF ENERGY (ODOE)

State agency helps Oregonians make informed decisions and maintain a resilient and affordable energy system.

OREGON PUBLIC UTILITY COMMISSION (OPUC)

The Oregon Public Utility Commission is the chief electric, gas and telephone utility regulatory agency of the government of the U.S. state of Oregon. It sets rates and establishes rules of operation for the state's investor-owned utility companies. With respect to publicly owned utility districts and cooperatives, its authority is limited to safety regulations.

OUTAGE (Electric utility)

An interruption of electric service that is temporary (minutes or hours) and affects a relatively small area (buildings or city blocks). See BLACKOUT.

P

Pacific Power (PAC)

An electric utility serving the greater Wallowa County region.

PEAK LOAD OR PEAK DEMAND

The electric load that corresponds to a maximum level of electric demand in a specified time period.

POWER PURCHASE AGREEMENT (PPA)

An arrangement between two parties, one which generates electricity (the owner) and one which is looking to purchase electricity (the buyer). The buyer purchases the system's electric output for a predetermined period. A PPA allows the buyer to receive stable and often low-cost electricity with no upfront cost, while also enabling the owner of the system to take advantage of tax credits and receive income from the sale of electricity. Most commonly used for renewable energy systems.

PROPANE

A gas that is both present in natural gas and refined from crude oil. It is commonly used as a fuel for rural homes for space and water heating.



R

R-VALUE

A unit of thermal resistance used for comparing insulating values of different material. It is basically a measure of the effectiveness of insulation in stopping heat flow. The higher the R-value number, a material, the greater its insulating properties and the slower the heat flow through it. The specific value needed to insulate a home depends on climate, type of heating system and other factors.

RELIABILITY

Electric system reliability has two components--adequacy and security. Adequacy is the ability of the electric system to supply the aggregate electrical demand and energy requirements of the customers at all times, taking into account scheduled and unscheduled outages of system facilities. Security is the ability of the electric system to withstand sudden disturbances such as electric short circuits or unanticipated loss of system facilities.

RENEWABLE ENERGY

Resources that constantly renew themselves or that are regarded as practically inexhaustible. These include solar, wind, geothermal, hydro and wood. Although particular geothermal formations can be depleted, the natural heat in the earth is a virtually inexhaustible reserve of potential energy.

RESIDENTIAL BUILDING

Buildings constructed as dwellings. These are where people primarily sleep and do other domestic activities. Examples include apartment blocks and houses.

S

SOLAR ENERGY

Radiant energy emitted by the sun. A renewable energy that can be used to heat, cool, and light homes and businesses.

SOLAR POWER

Electricity generated from solar radiation.

SUBSTATION

A facility that steps up or steps down the voltage in utility power lines. Voltage is stepped up where power is sent through long-distance transmission lines. It is stepped down where the power is to enter local distribution lines.

SUSTAINABILITY

Preserving and enhancing people, environment, and prosperity by meeting current needs and improving quality of life without compromising future generations' abilities to meet their needs.



T

TAX CREDITS	Credits established by the federal and state government to assist the development of the alternative energy industry typically offered as incentives.
TARIFF	A document, approved by the responsible regulatory agency, listing the terms and conditions, including a schedule of prices, under which utility services will be provided.
TRANSMISSION	Transporting bulk power over long distances.
TURBINE GENERATOR	A device that uses steam, heated gases, water flow or wind to cause spinning motion that activates electromagnetic forces and generates electricity.



LEARN HOW YOU CAN PARTICIPATE IN SMALL WORK GROUPS, INFO SESSIONS, SPECIAL EVENTS AND MORE!

CONTACT

Joe Basile
 joe@wallowaresources.org

OR GO TO:

 communityenergyprogram.org/energy-plan

W

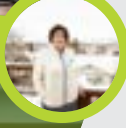
WALLOWA RESOURCES COMMUNITY ENERGY PROGRAM (WRCEP)	A program within Wallowa Resources (a non-profit organization) focused on creating opportunities to enhance the community and environment through energy related projects.
WATT	A unit of measure of electric power at a point in time, as capacity or demand. One watt of power maintained over time is equal to one joule per second. Some Christmas tree lights use one watt. The Watt is named after Scottish inventor James Watt and is capitalized when shortened to w and used with other abbreviations, as in kWh.
WORKFORCE HOUSING	Workforce housing, sometimes called “middle-income” housing, is generally understood to mean affordable housing for household types who earn too much to qualify for “low-income” housing assistance yet cannot afford typical market rates. Workforce housing can refer to any form of housing, including ownership of single or multi-family homes, as well as occupation of rental units.



Roll-ups

**WALLOWA COUNTY
COMMUNITY ENERGY STRATEGIC PLAN**

RESIDENTIAL



ZANNI & FRANK

When the winter electric bill hit \$600 per month for their baseboard heated home, Zanni Schuffler and Frank Helderman, Enterprise, got a free Home Energy Assessment from Wallowa Resources and then decided to install two Ductless Heat Pumps—taking advantage of Energy Trust of Oregon incentives. “It cut our winter electric bill in half and gave us cooling too!” says Zanni. Last summer when it was 100 degrees outside, it was a cool 89 degrees inside. “We saved money and were able to keep windows closed against dust and pollen in the summer which really helps my asthma,” says Zanni. “We LOVE our Ductless Heat Pumps.”



ANGIE & NICK

In 2009 Nick and Angie Lunde took advantage of tax credits and Energy Trust of Oregon incentives to add solar water heating to their 1910 home in Joseph. “It gives us free hot water April to September—no matter how much company we have,” says Nick. In 2016 they built a new garage and adjacent brew space, adding solar PV which provides the majority of their electrical usage. Now they’re adding solar PV to the house and ductless mini-splits for additional heating and cooling. “It will save us a lot and we’ll be off fossil fuel.”

HOW CAN THE COMMUNITY ENERGY STRATEGIC PLAN HELP YOU?

 Conservation

 Efficiency

 Resilience

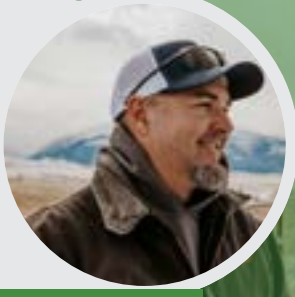
 Renewable Energy

 **LEARN MORE:**
COMMUNITYENERGYPROGRAM.ORG/ENERGY-PLAN



**WALLOWA COUNTY
COMMUNITY ENERGY STRATEGIC PLAN**

AG/COMMERCIAL



JESSE MILLER

Jesse Miller used to spend thousands of dollars a year to pump water to irrigate his farmland outside Enterprise. All that changed in 2020 when a Natural Resources Conservation Service (NRCS) project piped the North Prairie Pipeline with approximately 9 miles for Jesse and adjacent landowners. Now he gets pressurized water that can go right into a high efficiency sprinkling system. “We’re using less water and using it more efficiently with the added benefit of no longer having to maintain pumps,” says Jesse. And he also saves thousands of dollars a year on electricity. “My hope is we can help each other by what we’ve learned.”



MARCO RENNIE

In 2019 Market Place Fresh Foods in Joseph replaced old refrigerator compressors with seven energy efficient compressors. They were able to utilize Energy Trust of Oregon incentives and free up floor space by using roof space. With the addition of retrofitting refrigerators with the closure of doors, it has benefited them on energy costs right away. “Working with Energy Trust made it so much easier with all the time and investment involved in a project like this,” says Marco Rennie, Owner. “Not only have we become more energy efficient, but we have also been able to save thousands of dollars a year in electricity.”

HOW CAN THE COMMUNITY ENERGY STRATEGIC PLAN HELP YOU?

 Conservation

 Efficiency

 Resilience

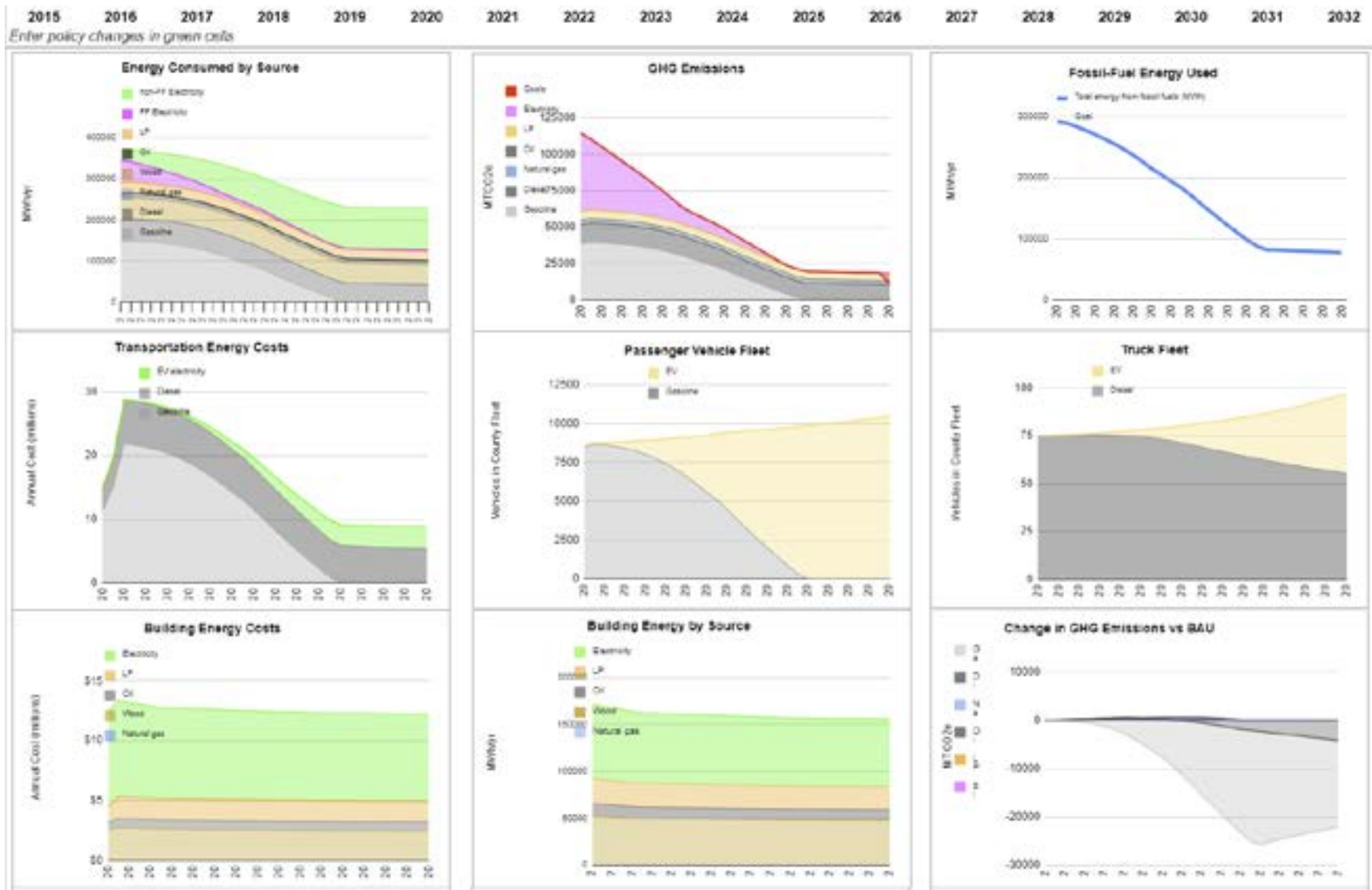
 Renewable Energy

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Appendix I. OCLEAP Screenshot





Appendix J. Goals, Strategies & Potential Actions Table

The Wallowa County Community Energy Plan is a living blueprint for energy self-reliance and security supporting community health and economic vitality. It advances energy conservation, efficiency, local generation, and resilience infrastructure as it protects water and other natural resources, reduces fossil fuel dependence and keeps more energy dollars local.

GUIDING PRINCIPLES	GOALS	STRATEGIES	POTENTIAL ACTIONS
1. CONSERVATION	Through conservation measures, a. Reduce residential / business / public buildings energy consumption (kWh) by 10% by 2030 from 2023 levels. b. Reduce Ag energy / fuel consumption by 10% by 2030.	» Increase community awareness of energy + water consumption and ways to reduce. » Raise awareness of benefits of pipeline projects. » Ag producer program outreach.	• Education and awareness campaign. • Involve high schools. • ICT / cloud power consumption awareness. • Ag / no-till, farm awareness – practices. • WR / ETO incentives cheat sheet.
2. EFFICIENCY	Through efficiency measures, a. Reduce residential / business / public buildings energy consumption (kWh) by 10% by 2030 from 2023 levels. b. Reduce Ag energy / fuel consumption by 10% by 2030.	» Energy audits at homes and businesses. » Energy efficiency upgrades. » Ag efficiency projects.	• Assemble energy efficiency crew and trailer. • Build program, funding, materials to support. ◊ Industrial efficiency projects.
3. ENERGY RESILIENCE & SECURITY	a. Supply 90% of county critical infrastructure with renewable and microgrid energy to withstand at least a 2-week grid outage by 2030. b. Reduce city-wide outage events and duration by 25% by 2030.	» Develop local RE powered resilience microgrids. » Partner with Pacific Power on CESP and C-REP projects. » Build planning policy to include periodic health & safety energy infrastructure assessment.	• Solar + Storage at schools, public buildings. • C-REP microgrid / resilience hub project. • Track/trend outage data.
4. LOCAL RENEWABLE ENERGY DEVELOPMENT	a. Increase county renewable generation capacity to 10% of total county power consumption by 2030.	» Develop micro-hydro, solar, biomass and microgrids.	• Micro-hydro projects. • WLID projects. • Solar. • Biomass.
5. FINANCIAL BENEFIT	a. Reduce energy cost for high energy burden county residents collectively by 15% by 2035 over 2023 levels. (In increments adjusted for cost of living) b. Provide local energy related jobs, training and apprenticeships.	» Public buildings and school solar projects. » Work with schools and local contractors on CTE and apprenticeship programs and local employment.	• Work with ESD, Schools and Community buildings on demand charge reduction programs. • Ag businesses outreach with incentive program. • Fleet vehicle / bus electrification - DC fast charge. • Program to benefit renters. • Develop school CTE program funding stream. • Develop mass transit, bussing survey, assessment.
6. ENVIRONMENTAL STEWARDSHIP	a. Reduce fossil fuel footprint as a community by 10% by 2030.	» See Guiding Principles 1 thru 4.	• See 1 thru 4. • Include transportation, Ag fuel, heating, ICT power.
7. SOCIAL RESPONSIBILITY	a. Develop Energy efficient LMI, workforce housing for residents by 20 units 2030. b. Upgrade or build 20 units of energy efficient housing for LMI, senior residents by 2030. c. Upgrade residential heating systems for 100 high energy burden households by 2027.	» Build out residential heating/efficiency upgrade program. Prioritize severe, high energy burden households. » Develop program to replace inefficient heating systems with modern electric.	• Centralized biomass heated housing development. • Energy efficiency / net-zero housing development program. • High energy burden homeowner program. • High energy burden renter program. • City street and crosswalk solar lighting.



Appendix K. Project Prioritization Matrix

Wallowa County CESP Project Prioritization Matrix							
Project Tracking	CESP Guiding Principles						
	Conservation	Efficiency	Energy Resilience & Security	Local Renewable Energy Development	Financial Benefit	Environmental Stewardship	Equity - Community Responsibility
Conservation Education & Awareness Campaign	1	2	0	0	1	1	3
High School Energy Conservation School Program	1	1	0	0	1	1	3
ICT/Cloud Power Awareness	1	1	0	0	0	3	3
Ag / No-Till Farming Awareness	1	1	0	0	1	2	2
AG - ETO / Other Incentives Cheat Sheet	1	0	0	0	1	2	2
Develop Transportation Fuel Awareness Program	1	1	0	0	1	3	3
Assemble Energy Efficiency Crew / Trailer	1	6	1	0	4	4	6
Industrial Efficiency Program	1	3	0	0	3	3	2
Solar + Storage at Schools, Public Bldgs	0	0	2	2	6	7	2
Wallowa County Microgrid Resiliency Corridor	0	0	5	5	5	7	5
Track / Trend Grid Outage Data	0	0	5	0	0	0	3
Build Public Health and Safety Energy Infrastructure Assessment into Planning Policy	0	0	5	0	0	0	6
Build other local RE Powered Microgrids	0	0	5	5	5	7	3
Community Microhydro	0	0	0	5	6	7	3
Residential Microhydro	0	0	0	1	1	2	2
Community Solar	0	0	0	5	6	7	6
Residential Solar	0	0	0	1	4	2	2
Biomass / Biogas Forest Residuals	2	0	0	2	4	3	2
Work with ESD, Schools, Community Bldgs to develop demand charge reduction programs.	0	0	0	0	4	0	3
Ag Business Outreach with Incentive Program	0	0	0	0	4	2	1
Fleet Vehicle/Bus Electrification - DC Fast Charge	2	2	2	2	4	3	4
Energy Program Specific to Renters	2	2	0	0	4	2	5
Develop School CTE Funding Stream	0	0	0	0	4	1	4
Develop Mass Transit, Bussing Survey, Assessment	0	0	0	0	3	6	5
Centralized Biomass Heated Housing Development	3	3	2	2	4	4	2
Energy Efficiency / Net-Zero Housing Development Program	2	6	0	2	4	4	4
High Energy Burden Homeowner Program	2	6	0	0	4	2	6
High Energy Burden Renter Program	2	6	0	0	4	2	6
City and Crosswalk Solar Lighting	4	4	4	0	4	3	4
Develop Mass Transit Program	3	3	1	1	4	3	4



Wallowa County CESP Project Prioritization Matrix

Project Tracking	Prioritization Factors								
	Community Wide Benefits	Achievable Practical	Technically Feasible	Economically Feasible	Project Complexity	High Impact	Short Timeframe	Funding Potential	Project Readiness
Conservation Education & Awareness Campaign	1	1	2	1	2	2	3	1	0
High School Energy Conservation School Program	1	1	1	1	1	1	0	1	0
ICT/Cloud Power Awareness	1	1	1	0	2	1	3	0	0
Ag / No-Till Farming Awareness	0	1	2	1	2	1	3	1	0
AG - ETO / Other Incentives Cheat Sheet	0	1	2	1	2	1	5	0	0
Develop Transportation Fuel Awareness Program	1	1	2	1	2	2	3	1	0
Assemble Energy Efficiency Crew / Trailer	1	1	1	1	1	2	0	1	0
Industrial Efficiency Program	0	1	2	1	1	1	0	1	0
Solar + Storage at Schools, Public Bldgs	1	1	1	1	1	2	0	2	0
Wallowa County Microgrid Resiliency Corridor	1	1	1	0	0	2	0	2	3
Track / Trend Grid Outage Data	1	1	1	0	2	2	3	1	0
Build Public Health and Safety Energy Infrastructure Assessment into Planning Policy	1	1	1	0	2	2	3	1	0
Build other local RE Powered Microgrids	1	1	1	0	1	1	0	1	0
Community Microhydro	1	1	1	1	0	1	0	1	0
Residential Microhydro	0	1	1	1	0	1	0	1	0
Community Solar	1	1	1	1	1	2	0	2	0
Residential Solar	0	1	1	1	2	0	5	1	0
Biomass / Biogas Forest Residuals	0	1	1	1	0	1	0	1	0
Work with ESD, Schools, Community Bldgs to develop demand charge reduction programs.	1	1	1	1	2	2	3	2	2
Ag Business Outreach with Incentive Program	0	1	1	1	2	1	5	2	0
Fleet Vehicle/Bus Electrification - DC Fast Charge	1	1	1	1	2	2	3	1	0
Energy Program Specific to Renters	1	1	1	1	1	1	3	1	0
Develop School CTE Funding Stream	1	1	1	1	2	2	3	1	0
Develop Mass Transit, Bussing Survey, Assessment	1	1	1	1	2	2	5	1	0
Centralized Biomass Heated Housing Development	1	1	1	1	0	2	0	1	0
Energy Efficiency / Net-Zero Housing Development Program	1	1	1	1	1	2	3	1	0
High Energy Burden Homeowner Program	1	1	1	1	1	2	3	1	0
High Energy Burden Renter Program	1	1	1	1	1	2	3	1	0
City and Crosswalk Solar Lighting	1	1	1	1	1	1	0	1	0
Develop Mass Transit Program	1	1	1	1	0	2	0	1	0



Wallowa County CESP Project Prioritization Matrix

	Risk		SUM
Project Tracking	Project Risks	Risk Rating	Priority Rating Score
Conservation Education & Awareness Campaign	Low Risk - Incorp with ESD and WR WYSEP	5	26
High School Energy Conservation School Program	Working with schools, buy in, scheduling.	3	17
ICT/Cloud Power Awareness	Unpopular topic.	3	20
Ag / No-Till Farming Awareness	Low Risk	5	23
AG - ETO / Other Incentives Cheat Sheet	Specialized knowledge of programs - Moderate	3	21
Develop Transportation Fuel Awareness Program	Low Risk	5	27
Assemble Energy Efficiency Crew / Trailer	Moderate - Acquiring funding, crew, trailer.	3	33
Industrial Efficiency Program	Moderate - Getting buy in	3	22
			0
Solar + Storage at Schools, Public Bldgs	Med - Funding, School Involvement.	3	31
Wallowa County Microgrid Resiliency Corridor	Moderate - Funding, Interconnect, Utility Relationship	3	40
Track / Trend Grid Outage Data	Low Risk	5	24
Build Public Health and Safety Energy Infrastructure Assessment into Planning Policy	Low Risk	5	27
Build other local RE Powered Microgrids	Moderate - Funding, Interconnect, Utility Relationship	3	34
Community Microhydro	Moderate - Process, Interconnect, Utility Relationship	3	30
Residential Microhydro	Moderate - Process, Interconnect, Utility Relationship	3	14
Community Solar	Moderate - Siting, Interconnect, CUP Permit	3	36
Residential Solar	Low Risk	5	25
Biomass / Biogas Forest Residuals	Moderate - Complexity, Expensive	3	21
Work with ESD, Schools, Community Bldgs to develop demand charge reduction programs.	Low Risk	5	27
Ag Business Outreach with Incentive Program	Low Risk	5	25
Fleet Vehicle/Bus Electrification - DC Fast Charge	Low Risk	5	36
Energy Program Specific to Renters	Moderate - renters rely on landlord for approval	3	28
Develop School CTE Funding Stream	Low Risk - Incorp with ESD and WR WYSEP	5	26
Develop Mass Transit, Bussing Survey, Assessment	Low Risk	5	33
Centralized Biomass Heated Housing Development	Moderate - Complexity	3	30
Energy Efficiency / Net-Zero Housing Development Program	Low Risk	5	38
High Energy Burden Homeowner Program	Low Risk	5	36
High Energy Burden Renter Program	Low Risk	5	36
City and Crosswalk Solar Lighting	Moderate - Acquiring funding, agreement with utility, city	3	33
Develop Mass Transit Program	Moderate - Acquiring funding, maintain profitability	3	29



Appendix L. Summary of Comments from Community Meeting

Cloverleaf Hall

11/8/2023

- » Suggestion that local contractors and suppliers should get first preference to work on projects that are implemented.
- » Suggestion that the Wallowa Lake Dam be rebuilt to include hydropower generation to meet all local residential and commercial energy needs.
- » Expression of interest in and support for the concept of microgrid development to improve community resiliency by providing back-up sources of local renewable energy production and storage to power critical services (health, safety, EMS, water/wastewater) and public buildings identified for use as emergency shelter, and to coordinate with Pacific Power on accessing the distribution system.
- » Concern that the plan will result in government overreach and infringement of individual freedoms.
- » Concern that adopting a community energy plan will increase population growth and change the culture of the County in a negative way.
- » Concern that the plan will raise taxes for local residents.
- » Concern that individuals who have already made personal investments in energy efficiency for their own properties will be asked to pay for programs and services that will not benefit them personally.
- » Concern that programs funded through tax credits will only benefit wealthy people who have a higher tax burden.
- » Concern that energy costs are increasing due to inflation and a lack of support for fossil fuels, and that a change in political leadership, not a community energy plan, is what is needed to reduce inflation and increase support for fossil fuels.
- » Concern that the plan is too long and has too much jargon for the public to be expected to read it before commenting.
- » Concern that the plan does not have enough substance, lacks dedicated funding, and doesn't warrant adoption as a guiding public document.
- » Concern that most of the 62-page plan is graphics and appendices and only 15 to 20 pages are of significance.
- » Concern that the plan would advocate for a reduction in the use of firewood for home heating.
- » Concern that the plan would advocate for irrigation pipeline projects.
- » Concern that the plan would mandate irrigation modernization for local irrigators.
- » Concern that solar farms developed on agricultural land would ruin the view.
- » Concern that Electric Vehicle fleet development is not suited to the cold winter temperatures in Wallowa County and is not feasible.



Appendix M. CESP County Resolution

**BEFORE THE BOARD OF COMMISSIONERS
IN AND FOR THE COUNTY OF WALLOWA
IN AND OF THE STATE OF OREGON**

IN THE MATTER OF ADOPTING THE)
WALLOWA COUNTY COMMUNITY ENERGY) RESOLUTION 2023-019
STRATEGIC PLAN)

WHEREAS, with endorsement of the Wallowa County Board of Commissioners in late 2021, a Community Energy Strategic Planning (CESP) process was initiated

WHEREAS, the process was funded primarily by Energy Trust of Oregon and facilitated by the Plan manager, Wallowa Resources

WHEREAS, over the last two years, with the support and direction of a 12-member Leadership Team and input from County residents, the CESP is complete and ready to be adopted by Wallowa County

WHEREAS, the Plan Manager requests the CESP be adopted by the Wallowa County Board of Commissioners as a standalone planning document to reside with the Wallowa County Planning Department

NOW THEREFORE, BE IT RESOLVED the Wallowa County Board of Commissioners do adopt the Wallowa County Community Energy Strategic Plan

DONE AND DATED in this regular meeting on the 20th day of December, 2023.


Commissioner John Hillock


Commissioner Todd Nash


Commissioner Susan Roberts


Attest: Tera Elliott, Exec. Asst.