[1]Climate Sustainability and[2] Energy Conservation (Theme 8)[3]

Statement of Ideal

Address our local energy consumption through efficiency, conservation and sustainability.

What does this Theme address:

8.1 - Reduce Use of non-renewable energy

8.2 - Increase energy efficiency through land use

8.3 - Increase energy efficiency through transportation

8.4 - Increase energy efficiency in buildings

8.5 - Conserve energy through waste management and water conservation

Why is this theme addressed?[4]

Climate sustainability and energy conservation are central components of the Jackson/Teton County Comprehensive Plan because transportation and buildings constitute 95% of the community's energy

Sustainability is a system of practices that are healthy for the environment, community, and economy and can be maintained indefinitely.

[1] Rec 50: (County 4-0, Town 7-0) Add a Theme: Energy Conservation - and have Staff compile principles and policies that belong in the new theme and relocate principle 1.3 into the new theme

[2] Rec 388: (County 4-0, Town 5-1) Change title of theme to "Climate Sustainability and Energy Conservation"

[3] Rec 394 (County 4-0, Town 1-5) Include all recommendations of the Jackson Hole Energy Sustainability Project in locations to be determined by staff

[4] Rec 389 (County 4-0, Town 6-0) "Why is this Theme Addressed": restate the definition of sustainability from the Vision chapter in a call out box

impacts. [5] In order to meaningfully affect energy usage and emissions in the long term, land use, energy use, and transportation planning must be comprehensively addressed. The community recognizes that we have an obligation not just an opportunity to ensure the policies identified in this theme are achieved.[6]

The community believes that climate change imposes unacceptable impacts on wildlife and the greater Yellowstone Ecosystem, recreation opportunities, quality of life and the local economy.[7] Stewardship of wildlife and the natural environment is the community's top priority and the basis of sustainability. As the climate changes it enables the invasion of non-native species and weakens the ability of native species to thrive. Stewardship of natural resources requires that we focus on how the community and region can avoid, accommodate and aid in ecosystem adaptation in the face of a changing climate. The community must limit climate changing activities by conserving energy and water; but also preserve habitat to give wildlife the best chance to adapt to a changing climate.[8],[9],[10] The 2010 Community Vision makes clear that climate sustainability and energy conservation efforts should be taken with the goal of preserving and protecting wildlife and natural resources and should not be in conflict with those goals.[11]

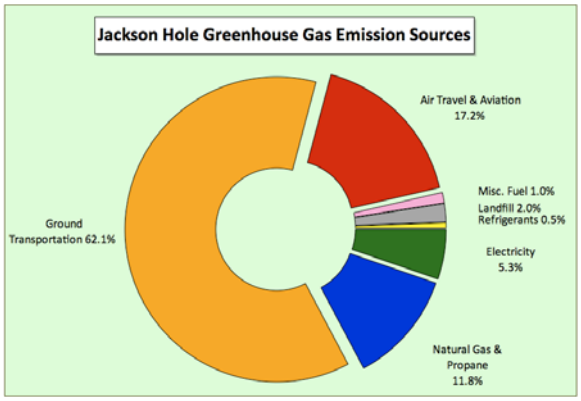

Figure 8.1: Jackson Hole Greenhouse Gas Emission Sources (Jackson Hole Energy and Emissions Inventory for 2008)

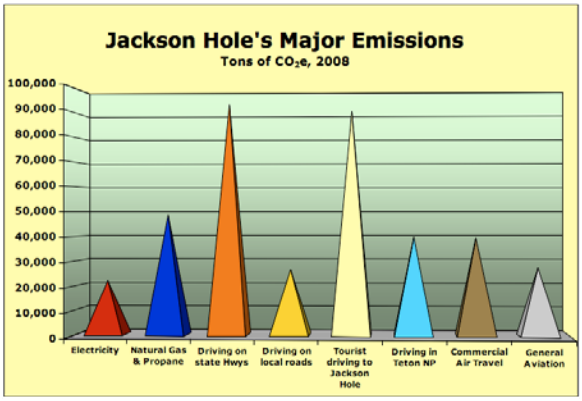

Figure 8.2: Jackson Hole's Major Emissions (Jackson Hole Energy and Emissions Inventory for 2008)

The use of non-renewable energy sources contributes to climate change by increasing greenhouse gas emissions. It also causes rapid depletion of resources. Energy costs to the community will continue to increase if we continue to rely on diminishing energy supplies. A land use and transportation strategy that relies on diminishing energy resources will be particularly difficult on lower income and working families as energy costs rise. Energy costs

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[5] Rec 395 (County 3-0, Town 5-1) "Why is this Theme Addressed": Reverse the language of the first sentence to positively call out the centrality of climate sustainability and energy conservation

[6] Rec 396 (County 4-0, Town 5-1) "Why is this Theme Addressed": amend to indentify the policies of this Theme as an obligation not an opportunity

[7] Rec 391 (County 4-0, Town 5-1) "Why is this Theme Addressed": add: because climate change impacts: wildlife and the Greater Yellowstone Ecosystem, opportunities for recreation, and quality of life and local economy

[8] Rec 392 (County 3-1, Town 2-4) "Why is this theme addressed": add language that recognizes that any and all added development and increased visitation will add to our impacts

[9] Rec 393 (County 4-0, Town 3-3) "Why is this theme addressed": add language that recognizes that any and all added development and increased visitation can add to our impacts if mitigation is not increased as well

[10] Rec 397 (County 4-0, Town 1-5) "Why is this Theme Addressed": add a discussion that natural resources can be better protected by conserving them rather than consuming them

[11] Rec 401 (County 4-0, Town 6-0) Throughout the Theme: add language that wildlife values will not be compromised by policies

are also greatly impacted by the energy demand generated by development patterns. Sprawling development patterns increase infrastructure, service delivery and transportation costs for residents. Further, by reducing energy consumption the community reduces its reliance on foreign non-renewable energy sources. Thereby increasing our energy security position and creating benefit to our national security.

With approximately 3-million visitors a year, we have an obligation to combine our outstanding natural beauty with a world class energy sustainability model[12]. Jackson Hole's value as a global destination will be enhanced by maximizing energy efficiency and demonstrating the "how and why" for the millions of people who travel through this valley every year.

Jackson Hole's awareness of the importance of energy conservation has recently gained momentum with the signing of the U.S. Mayors Climate Protection Agreement. This was followed by the establishment of the 10 X 10 initiative and then the creation of the Energy Efficiency Advisory Board. The leaders of this community then entered into an unprecedented agreement with Lower Valley Energy; committing both to meeting community energy reduction goals. This venture resulted in a community wide energy and emissions inventory that will help the community plan going forward. Moving forward the community realizes it has an obligation[13] to address the impacts of climate change on our ecosystem. Specifically, the community recognizes the important role that education will play in moving forward with climate sustainability and energy conservation in order to address our local energy consumption through efficiency, conservation and sustainability. [14]

Principles and Policies

Principle 8.1— Reduce use of non-renewable energy

Reduced consumption of non-renewable resources for climate and financial reasons can be addressed on a daily basis by each member of the community. In addition, the community will increase the use and production of renewable[15] energies to further reduce our use of non-renewable energy.

Policy 8.1.a: Shift community energy consumption behavior

Energy conservation means demanding less output from our energy sources. Achieving community wide energy conservation is the task of every member of the community with each energy use decision made. The community commits to shifting its behaviors to demand less energy. Modern technological devices such as home area networks raise awareness of the amount of energy being used so people know what

[12] Rec 396 (County 4-0, Town 5-1) "Why is this Theme Addressed": amend to indentify the policies of this Theme as an obligation not an opportunity

[13] Rec 396 (County 4-0, Town 5-1) "Why is this Theme Addressed": amend to indentify the policies of this Theme as an obligation not an opportunity

[14] Rec 398 (County 4-0, Town 6-0) Call out education in "Why is this Theme Addressed"

[15] Rec 399 (County 4-0, Town 6-0) Principle 8.1 language: change "alternative" to "renewable"

behaviors need to change. The Town and County will encourage the distribution and use of such devises, and will continue to encourage the use of the best practices as technology advances.[16]

Policy 8.1.b: Encourage energy conservation through energy pricing

A significant motivator in all decisions including energy conservation is money. The town and county will work with local energy providers to develop a sliding scale energy pricing structure. The pricing structure will be set up to reward energy consumers contributing to the community goals of conservation and efficient use of energy without punishing households that cannot afford to upgrade substandard energy efficient structures.[17]

Policy 8.1.c: Increase local use and generation of alternative energy

Solar, Wind, Geothermal, Hydro and Waste-to-Energy are all available local energy resources that are renewable and reduce consumption of nonrenewable energy. The community will work with the local electrical utility and other local agencies, non-profits, and businesses to identify local renewable energy generation opportunities. The Town and County will support the development and integration of renewable energy into the community energy portfolio, and will continue to encourage the use of the best practices as technology advances.[18]. Development of renewable energy sources will not conflict with the 2010 Community Vision or the Principles and Policies of Theme 1.[19] [20]

Policy 8.1.d: Allow and encourage home based alternative energy generation.

Production of energy from renewable sources on each property will have the cumulative effect of reducing reliance on nonrenewable energy. The Town and County will avoid regulatory barriers to the generation of renewable energy onsite so long as other community values are not sacrificed. This may include exempting solar panels from non-reflectivity requirements or exempting certain onsite wind turbines from height restrictions. Both jurisdictions should also create incentives for the provision of onsite[21] alternative energy, and continue to encourage the use of the best practices as technology advances. [22].[23], [24]

Principle 8.2— Increase energy efficiency through land use

The community is aware of the importance of land use planning and land use patterns as they affect our wildlife and natural resources. In addition, land use choices also have a great effect on the community's overall energy consumption.

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[16] Rec 415 (County 4-0, Town 5-0) Throughout Theme: recognize that technology will advance and allow for incorporation of best available technology

[17] Rec 400 (County 4-0,Town 6-0) Policy 8.1.b: be careful of what impact this may have on older, less efficient homes that people cannot afford to make more efficient or are unable to make more efficient such as older condominiums.

[18] Rec 415 (County 4-0, Town 5-0) Throughout Theme: recognize that technology will advance and allow for incorporation of best available technology

[19] Rec 401 (County 4-0, Town 6-0) Throughout the Theme: add language that wildlife values will not be compromised by policies

[20] Rec 390 (County 4-0, Town 2-4) Add a commitment to include alternative energy generation in all public projects in a location staff believes is appropriate

[21] Rec 403 (County 40, Town 6-0) 8.1.d: replace "home-based" with "on-site" throughout policy

[22] Rec 415 (County 4-0, Town 5-0) Throughout Theme: recognize that technology will advance and allow for incorporation of best available technology

[23] Rec 402 (County 4-0, Town 3-3) Add 8.1.e: to reduce use of non-renewable energy as soon as possible

[24] Rec 404 (County 2-2, Town 1-4) Add 8.1.f: designate in Future Land Use Plan a renewable energy research campus

Use energy more efficiently means achieving the same result through use of less energy. Compact mixed-use development and redevelopment requires less energy consumption and will assist the community in meeting our energy conservation goals.

Policy 8.2.a: Protect Critical Habitat and Natural Resources for Ecosystem Adaptation

The community has always acknowledged the importance of protecting wildlife habitat and natural resources. This has heightened importance given that human activities to date have already resulted in some measure of climate change that is affecting the community's goal of maintaining healthy populations of all native species. This raises the importance of protecting remaining habitats and natural resources such as large intact forest stands and wetlands that help the ecosystem adapt to the effects of climate change. The community commits to maximizing the protection and enhancement of wildlife habitat and natural resources that aid in ecosystem adaptation.

Policy 8.2.b: Encourage mixed use, compact and connected land use patterns

Mixed-use neighborhoods contain the greatest potential for low energy consumption living because of the close proximity of residences to services and jobs. Preservation and enhancement of this land use pattern in the Town and County will lead to energy conservation through the reduction of motor vehicle miles traveled and consolidation of waste disposal requirements.

Policy 8.2.c: Guide future development into already developed areas

The community will encourage infill and redevelopment within or adjacent to the Town of Jackson and existing County mixed-use neighborhoods that is consistent with the community's growth management policies (Themes 2, 3 and the FLUP) over leap-frog and sprawling development in the undeveloped areas of the unincorporated County. Infill and redevelopment consolidates population near existing services; preserving open areas and avoiding expansion of infrastructure. It also reduces the waste and resources consumed during construction and the carbon emissions and cost of service delivery associated with commuting and sprawl.

Principle 8.3— Increase energy efficiency through transportation

Ground Transportation and Aviation make up for approximately 80% of the total carbon emissions in the community. Reducing fuels consumed for transportation and using renewable fuels has the largest potential to reduce the community's overall consumption of nonrenewable resources and carbon emissions.

Policy 8.3.a: Adopt and Implement Complete Streets

Traffic is the largest carbon emitter in Jackson and Teton County, and congested traffic leads to idling cars emitting more carbon. To reduce the carbon emission associated with transportation, complete street improvements will be made. Designs including provisions for cycling, pedestrian transit, fast and efficient roadways and intersections and the most up to date best practices[25] will be prioritized when allocating transportation funding.

[25] Rec 415 (County 4-0, Town 5-0) Throughout Theme: recognize that technology will advance and allow for incorporation of best available technology

Policy 8.3.b: Promote alternate modes of transportation

Walking, cycling, ride-sharing, and transit are the most energy efficient modes of transportation. The community has adopted a number of transportation policies to encourage the use of alternate modes of transportation and discourage the use of single occupancy motor vehicles (the least energy efficient mode of transportation). The community will fund and implement a Transportation Demand Management (TDM) program administered by a trip reduction coordinator to influence the community's transportation behavior.

Policy 8.3.c: Support a Regional Transportation System[26]

The community will take a leadership role in working with adjacent counties, states, and federal land agencies to coordinate the design and use of a regional transportation system by Teton County residents and workers in order to address our local energy consumption by providing alternative modes for regional travel.

Policy 8.3.d: Support Idle-reduction Strategies and Policies[27]

The community recognizes that idling a vehicle for more than ten seconds consumes more fuel than restarting that vehicle, resulting in excessive emissions, wasted fuel, and possible damage to the vehicle's engine. The Town and County along with other like-minded organizations such as the Yellowstone-Teton Clean Energy Coalition will partner to educate residents and guests of the detrimental effects of vehicle idling.

Principle 8.4— Increase energy efficiency in buildings

The construction and operation of buildings accounts for close to 15% of energy use in Jackson and Teton County. In order to achieve carbon neutral buildings by 2030 the community will reduce the energy used in the construction of buildings and use energy more efficiently in building operation. Publicly funded construction projects will lead by example in implementing this policy. In addition, the Town and County will provide incentives for new and existing private property owners to also work toward a reduction of emissions. [28],[29]

Policy 8.4.a: Construct Energy Efficient Buildings

Energy efficient buildings with tight building envelopes increase the efficiency of operation of a building by minimizing energy loss. The Town and County will adopt the most recent energy codes in order to ensure maximum efficiency in all new construction and improvements on existing buildings and provide financial incentive for the design of energy efficient homes and businesses. The Town and County will also adopt energy policies that require existing building stock to meet certain improved energy performance standards, for all new work being completed[30]at the time a remodel or addition is done; and create incentives and financing options for owners of existing buildings to participate in a community-wide energy retrofit program. The Town and County commit that as building technology and codes advance so will local codes and incentives.[31]

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[26] Rec 405 (County 4-0, Town 6-0) Add 8.3.c: support regional transportation system

[27] Rec 406 (County 4-0, Town 4-1) Adopt anti-idling language as a policy or strategy

[28] Rec 408 (County 4-0, Town 6-0) Principle 8.4 language: add discussion of "incentives" for private construction

[29] Rec 407 (County 4-0, Town 0-5) Principle 8.4 last sentence: change "should also" to "will also be required to"

[30] Rec 409 (County 3-1, Town 5-1) 8.4.a: only the new part of addition or remodel must be brought up to improved standards

[31] Rec 415 (County 4-0, Town 5-0) Throughout Theme: recognize that technology will advance and allow for incorporation of best available technology

Policy 8.4.b: Renovate and Reuse Existing Buildings

The energy required to extract, produce, transport, and assemble building materials is referred to as the embodied energy of a building. The easiest way to reduce the embodied energy of a structure is to use a structure that already exists. The community will encourage the reuse, repurposing and renovation of existing buildings and building materials.[32]

Policy 8.4.c: Construction Material

The embodied energy of constriction activities and materials will also be considered. Where practical, the community will encourage the use of sustainably harvested and/or locally produced goods that have less embodied energy. The town and county will lead by example when constructing public buildings and affordable housing units by giving preference to local materials and contractors within reasonable performance and cost limits. The community will develop an awareness program describing the benefits of local material use for the community and actively promote building material reuse[33].

Policy 8.4.d: Energy Efficient Building Systems and appliances

The embodied energy and efficiency of a building's design are elements that remain static once a building is constructed. The town and county will provide standards for furnaces and HVAC equipment, lighting fixtures, appliances and other high efficiency items, that will actually reduce consumption and demand of energy throughout the habitation of the building. Where possible, programs will encourage the use of these items and continue to encourage the use of the best practices available as technology advances. [34].

Policy 8.4.e: Incentives for Smaller Buildings

The embodied energy and energy efficiency of a building is directly related to the overall building size. Smaller buildings require less material to achieve high energy efficiency and contain less volume to heat and/or cool. The Town and County will incent the construction of smaller, efficient buildings in order to increase overall energy efficiency.[35]

Principle 8.5—Conserve energy through waste management and water conservation

The energy required to distribute, clean, and dispose of water and waste can be easily reduced through conservation efforts. The long-term impacts of our water consumption and waste water management will have local environmental impacts and require future greater energy consumption to continue delivering this service.

Policy 8.5.a: Encourage water conservation

Conservation of water saves aquifer supplies for future generations, protects habitat, and respects downstream users. Readily available, inexpensive water does not encourage water conservation. In order to encourage

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[32] Rec 413 (County 4-0, Town 2-4) 8.5.b: add language that waste disposal pricing will reflect the true cost of waste disposal

[33] Rec 410 (County 4-0, Town 5-1) Add building material reuse to 8.4.c

[34] Rec 415 (County 4-0, Town 5-0) Throughout Theme: recognize that technology will advance and allow for incorporation of best available technology

[35] Rec 414 (County 4-0, Town 4-0) 8.4.e: incentivize smaller buildings in town and county

water conservation, municipal pricing will reflect the true long-term cost of production. The Town and County will also allow, incent, and require land uses that use less water such as landscaping with native species.[36]

Policy 8.5.b: Increase recycling and composting

The disposal of solid waste in a landfill involves not only long term decomposition but also long distance transportation. The community will adopt a "cradle to grave" recognition of the costs of waste generation and disposal. The community will increase opportunities for recycling, reuse, and composting to minimize the solid waste that must be hauled to a landfill outside of the County, and encourage such actions. [37]

Policy 8.5.c: Reduce wastewater pollution

The community will develop and promote innovative sewage and septic treatment systems that discharge effluent meeting or exceeding federal drinking water standards while minimizing or eliminating the use of chemicals. The Town and County will encourage wastewater to be cleaned, conserved and reused at the on-site, neighborhood or community level reducing the need for large expensive collection systems and regional processing facilities. Where possible, the Town and County will pursue methane recapture for wastewater and landfill operations.

Policy 8.5.d: Reduce Stormwater and Snowmelt runoff

Land development changes not only the physical, but also the chemical and biological conditions of Teton County's waterways and water resources. When land is developed, the natural cycle of water is disrupted and altered. The cumulative impact of development and urban activities, and the resultant changes to both stormwater quantity and quality in the entire land area that drains to a stream, river, lake, or estuary determines the conditions of the waterbody. The community will develop and promote innovative stormwater and snowmelt collection, storage and diversion systems to reduce sediment and pollution entering our local waterbodies.[38]

Strategies

The Town of Jackson and Teton County will undertake the following strategies to implement the policies of this theme. The town and county should periodically update strategies as tasks are completed or when additional action is necessary, based on monitoring of the Theme's indicators.

Strategy 8.1: Amend Land Development Regulations (LDRs)

- Amend LDRs to accommodate infill developments
- Amend LDRs to focus on creating 'walkable' communities which encourage alternate transit and mixed use development.
- Amend LDRs to support the integration of renewables into the community energy portfolio for both public and small private providers.
- Develop regulations and incentives for maximizing habitat retention, enhancement of wildlife habitat and natural resource protections.
- Establish requirements for the implementation of energy efficient development.[39]

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[36] Rec 417 (County 1-3, Town 4-2) Strategy 8.4 and Policy 8.5.a: change to actively pursue incentives to reduce water consumption rather than a sliding scale for pricing

[37] Rec 412 (County 2-2, Town 1-4) 8.5.b: last sentence, amend to read: ...the County, and "designate appropriate locations for a potential landfill site within Teton County."

[38] Rec 411 (County 4-0, Town 6-0) Add 8.5.d: best practices to limit stormwater/snowmelt runoff

[39] Rec 118: (County 5-0, Town 3-2) Strategy 1.4 third bullet: remove beginning of sentence and start with "Establish requirements…"

Strategy 8.2: Develop a Comprehensive Sustainable Building Program[40]

- Develop a sustainable, energy efficient building program to apply to all governmental operations in the Town and County.
- Develop a sustainable, energy efficient residential and commercial building program to the greater community which reflects the standards that are being implemented by the Town and County government.
- Encourage commercial buildings over 5000 square feet to be built to a LEED Certified standard or equilivant.
- Develop a Green Building Pilot Program including incentives from the county and/or town Energy Mitigation Program.
- Develop energy efficiency requirements for affordable housing possibly the Home Energy Rating System (HERS).
- Adoption of the most recent International Energy Conservation Code.
- Practice and promote sustainable building practices using the U.S. Green Building Council's LEED program or a similar system.

Strategy 8.3: Education

- Educate the community regarding the benefits of idle reduction strategies [41]
- Educate the public, schools, governmental agencies, professional associations, business and industry about reducing global warming pollution.
- Develop educational programs to encourage CC&R's to be drafted to better accommodate renewable and energy efficient practices.
- Public education on the long term monetary, environmental, and national security value of energy conservation.
- Develop an awareness program describing the benefits of local material use.
- Increase awareness and opportunities for recycling, reuse, and composting.
- Encourage the use of energy efficient building systems and appliances.

Strategy 8.4: Partner with Energy Providers, Non-profits, Governmental Agencies and others[42]

- Deploy modern technological devices such as home area networks into the community.
- The Town and County recognize that as technology advances polices, regulations and incentives will need to adapt to implement the most recent best practices.[43]
- Work with local energy providers to develop a sliding scale energy pricing structure.
- Develop a sliding scale water pricing structure.
- Encourage local fuel providers to offer alternative vehicle fuels.
- Convert governmental vehicle fleets to alternative fuels.

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[40] Rec 50 (County 4-0, Town 7-0) Add a Theme: Energy Conservation - and have Staff compile principles and policies that belong in the new theme and relocate principle 1.3 into the new theme

[41] Rec 406 (County 4-0, town 4-1) Adopt anti-idling as a strategy

[42] Rec 417 (County 1-3, Town 4-2) Strategy 8.4 and Policy 8.5.a: change to actively pursue incentives to reduce water consumption rather than a sliding scale for pricing

[43] Rec 415 (County 4-0, Town 5-0) Throughout Theme: recognize that technology will advance and allow for incorporation of best available technology

- Use energy use and emissions inventory data and the JHESP partnership to support the wide array of organizations already working on reducing emissions from transportation.
- Actively pursue creating incentives and financing options for owners of existing buildings to participate in a community-wide energy retrofit program.
- Identify an appropriate location and fund a new START storage and maintenance facility that will allow expansion of transit service [44]
- Identify a permanent subsidy for START operations [45]Identify permanent locations for community recycling stations [46]
- Encourage curbside recycling countywide [47]

Indicators

The community will use[48] the following indicators to monitor achievement of this theme's values. Planning staff will compile the best available data from any appropriate agencies on each indicator in the period stated below and present the methods and results to the public and appointed and elected officials as detailed in the Administration chapter of this Plan. The indicators found in Theme 6 Transportation should also be considered when reviewing this Theme.[49]With indicator data as a guide, amendments to Plan policy or implementation may be pursued.[50]

Climate Sustainability and Energy Conservation Indicators	Baseline[51]	Goal	Review Period
1. Greenhouse Gas Emissions	410,228 tons CO_2e (2008)	reduce	5 yr
2. Carbon footprint of buildings	70,360 tons CO_2e (2008 emissions)	carbon neutral by 2030	5 yr
3. Energy efficiency certification for all public buildings	Town: 1 of 2 (2009) County:	minimum LEED Standard (or equivalent) [52]	1 yr
4. Per capita vehicle miles travelled		reduce	5 yr

[44] Rec 416 (County 4-0, Town 5-0) Strategy 8.4: add: Provide needed infrastructure for expanding START

[45] Rec 416 (County 4-0, Town 5-0) Strategy 8.4: add: develop a permanent subsidy for START

[46] Rec 418 (County 4-0, Town 6-0) add Strategy 8.5: identify permanent locations for recycling stations

[47] Rec 419 (County 4-0, Town 5-1) Strategy 8.5: add encourage curbside recycling countywide

[48] Rec 139 (County 2-3, Town 4-1) Under "indicators" heading in all Themes: change "will use" to "should consider using"

[49] Rec 420 (County 4-0, Town 5-1) reference the transportation indicators

[50] Rec 199 (County 4-0, Town 3-1) Conservation alliance 11/12 Action #5: Add language that clearly explains how indicators will be used to draft and amend land development regulations. Language should be added that explains how a science-based monitoring program will be further developed with appropriate agencies and partners. A baseline column, with quantifiable documentation of existing conditions, should be added to all indicator tables in the new Plan.

[51] Rec 199 (County 4-0, Town 3-1) Conservation alliance 11/12 Action #5: Add language that clearly explains how indicators will be used to draft and amend land development regulations. Language should be added that explains how a science-based monitoring program will be further developed with appropriate agencies and partners. A baseline column, with quantifiable documentation of existing conditions, should be added to all indicator tables in the new Plan.

[52] Rec 421 (County 4-0, Town 6-0) Indicator 3: change to "LEED or comparable"

Climate Sustainability and Energy Conservation Indicators	Baseline[53]	Goal	Review Period
5. Waste diverted to recycling		>25%	5 yr
6. Water usage	Town(sum 09): 7.0 mgd Town(win 09): 4.0 mgd	reduce	1 yr
7. Jackson Hole's energy load growth		mitigate 33% of growth by 2030	1 yr
8. Local renewable energy generation		2 MW by 2030	5 yr

[53] Rec 199 (County 4-0, Town 3-1) Conservation alliance 11/12 Action #5: Add language that clearly explains how indicators will be used to draft and amend land development regulations. Language should be added that explains how a science-based monitoring program will be further developed with appropriate agencies and partners. A baseline column, with quantifiable documentation of existing conditions, should be added to all indicator tables in the new Plan.

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