Comprehensive Plan Sustainability Assessment

Element	Action	Reduce dependence upon fossil fuels, extracted underground metals and minerals.	Reduce dependence on chemicals and other manufactured substances that can accumulate in Nature.	Reduce dependence on activities that harm life-sustaining ecosystems.	Meet the present and future human needs fairly and efficiently.	Comments	References
Issues and Opportunities							
1	Balance individual property rights with community interest and goals.				X		
2	Minimize the impact of development on energy and natural resources.	X	X	X	X	Encourage long term sustainability considerations in all decisions using the cradle to grave system review in all aspects of development and city functional decisions.	
3	Develop sustainable vision for City of Menasha in conjunction with the findings from community surveys and visits.	X	X	X	X	Highlight alternatives in the Doty Island, Downtown, Shopko, and Eastern regions of the community.	
4	Conduct a community baseline survey based on current and projected needs in population age, numbers, income, etc...	X	X	X	X		
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Housing							
1	Promote a positive image of the City of Menasha as a quality place to live.				X		
2	Preserve, rehabilitate, and stabilize the city's existing housing stock and residental neighborhoods.			X	X	Encourage compact development near desired centers of shopping, transportation, parks and civic activity.	

3	Create a diverse base of housing opportuniites appropriate for all segments of the population.				X		
4	Maintain an adequate supply of sites for single family housing in desirable locations to meet current needs and projected growth.				X		
5	Maintain an adequate supply of sites for multi-family housing in desirable locations to meet current needs and projected growth.				X		
6	Increase enforcement of housing and builiding code standards to ensure that every housing unit is decent, safe, sanitiary, and secure.				X		
7	Create affordable home ownership opportuniites for low and moderate income residents.				X		
8	Maintain an adequate supply of affordable rental housing for low and moderate income residents.				X		
9	Maintain an adequate supply of affordable housing for senior and special need households.				X		
10	Create new housing a opportunties in close proximity to the downtown.			X	X		
11	End housing discrimination in the City of Menasha.				X		
12	Work to remove covents/codes that restrict low energy sustainable pracitices.	X			X	Examples are restrictions to hanging laundry out-doors or lthe onger no mow lawns and such.	
13	Develop and encourage community home improvement initiatives for energy efficiency.	X			X	Encourage economical home heating and electrical neighborhood development programs. Work to get citizens information related to wise home energy improvement programs.	
Transportation							
1	Provide a safe, efficient, and cost effective transportation system for the movement of people and goods.				X	Review community network to prioritize and redirect transportation to promote community walkability and accessiblity.	

2	Support and promote the development and use of multiple modes of transportation.				X	Model good practices in city owned equipment.	
3	Incorporate energy conservation principles in transportation facility design and services.	X			X	Support use of electric/hybrid vechicles and the infrastricture for biking and walking access across community.	
4	Look to design transportation connectivity into the entire community network.				X		
5	Maintain and enhance transportation for elderly/needy in community that are without cars or unable to drive.	X			X	Bus and related alternative services are needed.	
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Utilities and Community Facilities							
1	Provide high quality and cost effective community facilities and services that meet existing and projected furture needs.				X		
2	Ensure proper treatment of watewater to protect public health, groundwater quality, and surface water quality while meeting current and future needs.			X	X		
3	Promote stormwater management practices in order to reduce private and public property damage and to protect water quality.			X	X	Strive to promote home water gardening development to minize need for water retention ponds to recharge our water basin. Develop codes to encourage the minimization of hard surafces on-site that impend water infiltration.	
4	Ensure that the water supply for the community has sufficient capacity, is in complinace with drinking water quality standards and regulations, and is available to meet present and future needs.				X		
5	Promote effective solid wate disposal and recycling services and systems that protect the public health, natural environment, and general appearance of land uses within the community.			X	X	Encourage proper home/community composting of food scraps, plant materials, along with recycling through $ incentives to reduce landfill costs.	

6	Maintain and enhance recreational opportunities in the community.			X	X	Encourage reconnection with local nature parks and related water features.	
7	Ensure the provision of reliable, effiecient, and well-planned utilities to adequately serve existing and future development.				X		
8	Encourage improved access to health care facilities and child care.				X		
9	Provide a level of police, fire, and emergency servces that meets present and future needs.				X		
10	Promote quality schools and access to educational opportunities.				X		
11	Reduce the long-term costs and environmental impact of municipal facilities and operations.	X		X	X		
12	Strive to keep energy costs for home and business low and sustainable.	X			X	Encourage community wide renewable energy and related efforts.	
Ag, Natural and Cultural Resources							
1	Support the agricultural resources of the county and region.			X			
2	Maintain, perserve, and enhance the city's natural resources.			X			
3	Mitigate impacts of development and land mangement practices on surface waters.			X		Limit chemical addition to lawns/parks harmful to ground water.	
4	Preserve natural features like woodlands, wetlands, floodplains, shorelands, and open spaces in order to maintain and enhance community green space.			X	X	Encourage a return to the "tree city" by planned planting of native trees of the right size and type to suit the sites, noting their impact on carbon footprint reduction and community appearance.	
5	Enhance community image with attractive entrances, a mix of business types, a vital downtown, and community culture and events.				X		
6	Preserve significant historical and cultural sites, structures, and neighborhoods that contribute to community identity and character.				X	List these as goals for action.	

7	Raise awareness of opportunities for buying locally grown of processed produce.	X	X	X	X	Provide support to farmer's markets, local CSA networks, community gargens and regional food growing/organic networks.	
8	Provide spaces for community gardens and related urban efforts.	X	X	X	X		
9	Develop long term vision/plan for Menasha canal and waterfront congruent with sustainable vision and mission of community.	X	X	X	X		
10	Establish model yard care practices in all community parks and green spaces.	X	X	X	X	Favor use of natives over anuual or foreign plantings to minimize care and maintenance costs.	
11	Develop program of on-site water infiltration to minimize the need for large and expensive water retention basins.	X	X	X	X	Work with DNR to develop home owner monioting program.	
Economic Development							
1	Support the economic development initiatives in the community and region to promote the creation of jobs and income opportunities.				X		
2	Maintain and improve the utility, communication, and transportation infrastructure systems that promote economic development.				X		
3	Support the retention and expansion of existing businesses.				X		
4	Support the entrepreneurial development and new business attraction efforts.				X	Establish and engage local businesses in networks that share ideas for sustainable benefits and mutual business enhancement.	
5	Maintain a quality workforce to strengthen businesses and maintain a high standard of living.				X		
6	Support and pursue opportunities to increase and diversity the city's tax base.				X		
7	Establish city wide web-shopping services to widen the reach of city businesses across the valley.	X			X		

8	Develop walkability of business districts/centers, changing codes to permit sustainable compact development to occur.	X		X	X	Modify codes so stores can share parking and increase density for better consumer accesibility.	
9	Establish green building codes with local businesses to foster reuse of recycled and discarded materials for the benefit of local companies in job creation.	X	X	X	X		
Intergov Cooperation							
1	Foster mutually beneficial intergovernmental relations with the other units of government.	X	X	X	X	Share and exchange sustainable codes and practices between communities and businesses with the use of mutually accessible web-site links.	
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Land Use							
1	Provide for a compatible mix of land uses within the city.				X		
2	Given limited land space of community, encourage sustainable compact development density congruent with current and future housing needs.	X	X	X	X		
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Implementation							
1	Promote consistency between plan recommendations, ordinances, and other land use regulations.				X		
2	Educate community on the needs and value of sustainable practices to the long term health of the community.				X		
3							
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6							

Sustainability Comments Sorted into the 4 Principals

1) Reduce concentrations of substances extracted from the earth's crust

Development Focus: on Energy Saving Construction

Encourage all types of development to use alternative renewable energy sources and meaningful energy conservation measures.

1. Place a priority on solar-oriented design applications in development

2. Use regenerative energy heating and cooling source alternatives to fossil fuels

3. Select building materials with low "embodied energy" which require less energy-intensive production methods and long-distance transport

Development Focus: on Energy Saving Development Planning

Encourage compact development planning which inherently minimizes energy needs.

1. Foster compact development that minimizes the need to drive through compact, infill, and mixed use development

2. Foster a mix of integrated community uses -- housing, shops, workplaces, schools, parks, civic facilities -- within walking or bicycling distance

3. Encourage human-scaled development that is pedestrian-friendly, providing recreational facilities within walking and bicycling distance

4. Develop local street designs that encourage pedestrian and bicycle use and discourage high speed traffic

5. Design streets that support/enhance access between neighborhoods and to neighborhood-based commercial developments.

6. Provide housing near places of employment

Food and Planting Focus: Regional Production Options

Encourage local food production and agriculture in planning that meets the needs of community

1. Develop community gardens that reduce the need for long-range transport of food and associated consumption of fossil fuels.

2. Encourage local food production and agriculture that reduces need for long-range transport of food.

3. Use local materials and native plants in facility design to reduce transport distances and reduce maintenance

4. Plan landscape and park maintenance concpets that minimize use of equipment powered by fossil fuels

Transportation Focus: Energy Saving Alternatives to Larger Gas Powered Driven Vehicles

Encourage alternatives to the use of gas-powered vehicles; such alternatives include public transit, alternatively-fueled vehicles, bicycle and pedestriar and bicycle and pedestrian-friendly development design.

1. Focus development near existing transport systems, minimizing need for new road and highway construction

2. Establish development transportation alternatives to the drive-alone automobile, including walking, bicycling, and public transit

3. Develop and use vehicles powered by renewable fuel sources

4. Foster development oriented around public transit and car pooling

Jobs and Manufacturing Focus: Energy Conserving Options

Encourage facilities that employ renewable energy sources, or reduce use of fossil fuel for their operations and transport needs

1. Find ways to reduce employee and product transport vehicle trips required.

2. Do not use or reduce use of cadmium, lead, and other potentially toxic metals and minerals that can accumulate in the biosphere.

3. Discourage the use of products that utilize packaging derived from non-renewable, non-degradable resources

4. Consider options for employment that are locally-based or home-based, reducing or eliminating the need to commute.

5. Facilate home-based occupations and work that reduce the need to commute

Energy Focus Itself

Encourage the use regenerative energy alternatives to fossil fuel, or programs that work to reduce the use of or dependence on fossil fuel

1. Minimize energy use as a general rule in development planning.

2. Encourage the development of renewable energy sources

Recycling Focus

Promote the recycling of waste materials derived from non-renewable, non-degradable resources in all aspects of community.

2) Reduce concentration of substances produced by society

Education Focus: Alert Community to Issues and Actions

Educate citizens and public servants about both short and long-term risks associated with the use and disposal of hazardous materials.

1. Develop guidelines for chemical-free and toxic-free building materials

2. Establish treatment facilities that remove or destroy pathogens without creating chemically-contaminated by-products

3. Work to meet or exceed clean air standards

Jobs and Manufacturing Focus

Encourage development and businesses to reduce the use of chemicals and synthetic compounds in their construction and building materials, operatic products, and services.

1. Actively seek ways to minimize the use of toxic manufactured substances in products and their manufacture

2. Use the by-products of other processes or whose wastes can be used as the raw materials for other industrial processes

Land Care Focus

Encourage development, agriculture, and other land uses that minimize or eliminate the use of extracted underground substances such as mercury, ca phosphorus.

1. Establish landscape design standards that minimize the use of pesticides and herbicides

2. Use alternatives to chemical pesticides and herbicides in park and facility maintenance (example: integrated pest management)

3. Use agricultural methods that reduce or minimize use of pesticides, herbicides, and manufactured fertilizers

Recycling Focus

Encourage businesses, communities, institutions and development that pursue reduction and re-use of by-products and waste, especially approaches employ waste as a resource, such as eco-industrial development.

1. Reduce waste and encourage recycling of building waste materials and promote recycling by residents

2. Design approaches and regulatory systems that focus on pollution prevention, re-use and recycling.

3. Minimize or reduce use of chemicals and employ proper disposal and recycling mechanisms for these

3) Reduce activities that encroach upon nature

Education Focus

Establish educational efforts of understanding to reduce levels of consumption and waste generation at the household and community levels

Development Focus

Encourage compact and mixed-use development that minimizes the need to drive, re-uses existing, infill, and brownfields sites that have been thoroug reclaimed and remediated before using open land, and that avoids the extension of sprawl.

1. Guide development to existing developed areas and minimizing development in outlying, undeveloped areas

2. Maintain a well-defined "edge" around each community that is permanently protected from development

3. Remediate and redevelop brownfield sites and other developed lands that suffer from environmental or other constraints

4. Create financial and regulatory incentives for infill development; elimination of disincentives

5. Encourage reuse of existing buildings and sites for development

6. Encourage compact and clustered residential development, including reduced minimum lot sizes

7. Enact appropriate development and population growth policies linked to carrying capacity of natural systems and community facilities

8. Establish development patterns that respect natural systems such as watersheds and wildlife corridors.

9. Remove code obstacles to using recycled materials for building

Water Focus

Encourage forms of development, business, and agriculture that reduce the use of water, re-using wastewater on-site, and that employ innovative was
treatment that minimizes or eliminates the use of chemicals

1. Establish responsible stormwater management that reuses and restores the quality of on-site run-off – (example,- constructed marsh or wetlands).

2. Use flood control and stormwater techniques that enhance and restore natural habitats

3. Reduce or eliminate use of impervious paving materials

4. Establish principles that foster the recharge of groundwater basins

5. Establish water conservation measures to minimize environmentally destructive side effects of developing new water sources

6. Promote the removal of regulatory barriers to composting and graywater reuse systems

7. Encourge the re-use processed water.

8. Foster the reduction in water use

9. Promote innovative sewage and septic treatment that discharges effluent meet or exceed federal drinking water standards while minimizing or elimir
use of chemicals (example: greenhouse sewage treatment facilities)

10. Work to preserve and enhance water quality

Recycling Focus

Modify community activities that emit waste or pollutants into the environment

1. Implement the recognition of the "cradle to grave" costs of waste generation and disposal in community planning

2. Develop responsible alternatives to landfilling of solid waste

3. Encourage the on-site composting of organic waste

4. Encourage the use of recycled building materials or by-products of other businesses, helping to minimize the mining of virgin materials

5. Recycle building construction waste materials and use appropriate deconstruction techniques.

6. Implement the "cradle-to grave" (life cycle) analysis in decision-making for materials and construction techniques.

Food Focus

Encourage agricultural approaches that build up rather than deplete topsoil, and conserve or minimize water use

1. Establish urban and community garden options

Nature Focus

Conserve undeveloped land, open space, agricultural land, protect water and soil quality, consciously restore ecosystems, and minimize or eliminate th disruption of existing natural ecosystems and floodplains.

1. Promote regional and local designs that respect the regional ecosystems and natural functions which support human communities.

2. Guide development away from floodplains

3. Guide development away from barrier beaches

4. Create systems of green spaces within and among communities

5. Fund open space acquisition

6. Maintain natural terrain, drainage, and vegetation, minimizing disruption of natural systems

7. Preserve wilderness areas

8. Preserve wildlife habitats and biological diversity of area ecosystems

9. Preserve or restore wetland areas along rivers for natural flood control

10. Prevent wetlands destruction; restoration of degraded wetlands

11. Restore damaged natural systems through regenerative design approaches

Landscaping Focus

Promote the preservation and planting of trees and other vegetation that absorb carbon dioxide and air pollutants

1. Encourage landscape and park maintenance that reduces the use of mowers, edgers, and leaf blowers

2. Use regionally native plants for landscaping

4) Meet human needs fairly and efficiently

Community Policy Focus

Encourage participatory and partnership approaches to planning, including planning for sustainability, integrally involving local community residents in s the vision for and developing plans and actions for their communities and regions. Planning decisions that follow should be consistent with those comm visions.

1. Support research and development of technology promoting the four general policy objectives for sustainability
2. Provide the best available economic, social, and environmental data and indicators on impacts, alternatives, costs, and benefits for integrated decisi making at all levels of government.

3. Develop fair and equitable growth management policies maintaining diversity in local populations and economies

4. Integrally involve local community residents in setting the vision for and developing plans for their communities and regions

5. Establish avenues for meaningful participation in decision-making for all citizens and in particular for historically disadvantaged people

6. Equitably protect public health, safety and welfare, and which incorporate the needs of those currently disenfranchised in the process.

7. Eliminate disproportionate environmental burdens and pollution experienced by historically disadvantaged communities.

Environment Focus

Support incentives and other economic tools to improve the sustainability of our natural environment, enhance natural resources, and improve commu
subdivision and building design standards.

Transportation Focus

Providing affordable, efficient transportation alternatives for everyone, especially low-income households, elders, and others comprising 30% of the na
population that cannot or do not own cars

Housing Focus

Communities and housing developments that are socially cohesive, reduce isolation, foster community spirit, and sharing of resources (example: coho

1. Provide housing that is affordable to a variety of income groups within the same community

2. Provide housing with a diversity of occupants in terms of age, social, and cultural groups

3. Encourage housing located near employment centers.

Work and Training Focus

Create vibrant community-based economies with employment opportunities that allow people economic self-determination and environmental health

1. Fulfill local employment and consumer needs without degrading the environment

2. Promote financial and social equity in the workplace

3. Promote retraining of those displaced in the short-term by a shift to a more sustainable economy

4. Provide for the equitable educational opportunities for all members of society

Food Focus

Encourage locally-based agriculture, such as community supported agriculture, providing a nearby source of fresh, healthy food for urban and rural po

Water Focus

Encourage cleaning, conserving, and reusing wastewater at the site, neighborhood or community level, reducing the need for large, expensive collecti
systems and regional processing facilities

Comprehensive Plan Sustainability Assessment

Element	Action	Reduce dependence upon fossil fuels, extracted underground metals and minerals.	Reduce dependence on chemicals and other manufactured substances that can accumulate in Nature.	Reduce dependence on activities that harm life-sustaining ecosystems.	Meet the present and future human needs fairly and efficiently.	Comments	References
Housing							
1	Solar-oriented design of development	X			X	Design Oriented policies/actions can reduce use of raw materials, fossil fuels and underground metals/substances. Design oriented policies/actions can also help reduce energy use, thereby making housing more affordable for more people.	
2	Use of regenerative heating and cooling source alternatives to fossil fuels	X			X	Design Oriented	
3	Use building materials that have low 'embodied energy', which require less energy intensive production methods and long-distance transport, and reduce mining of virgin materials	X		X		Design Oriented	
4	Use chemical-free and toxic-free building materials		X			Construction Policies	
5	Reduce waste and recycle building waste materials		X	X		Construction Policies	
6	Use cradle to grave (life cycle) analysis in decision-making for materials and construction	X		X		Construction Policies	
7	Develop new construction and redevelopment with LEED and energy star standards	X		X	X	Construction Policies	
8	Remove code obstacles to using recycled materials for building	X		X		Construction Policies	
9	Promote recycling by residents		X			Enable "Conservation at Home"	
10	Use landscape designs that eliminate or minimize use of pesticides and herbicides		X		X	Enable "Conservation at Home"	

11	Remove neighborhood covenants that prohibit energy-saving practices such as drying laundry outdoors, extra non-essential lighting etc.	X			X	Enable "Conservation at Home"	
12	Promote on-site composting of organic waste	X				Enable "Conservation at Home"	
13	Mandate/'mainstream' water conservation measures through selection of household strategies (rain barrels, cisterns, use of rain water for non-potable uses etc) and minimizing environmentally destructive side of developing new water sources	X		X	X	Enable "Conservation at Home"	
14	Reuse existing buildings and sites for development; and use appropriate deconstruction techniques			X		Site Develoment/Re-Development	
15	Use Compact and clustered residential development, and reduce minimum lot sizes			X		Site Develoment/Re-Development	
16	Responsible stormwater management that resuses and restore the quality of on-site run-off (eg constructed wetlands, cisterns)			X		Site Develoment/Re-Development	
17	Reduce or eliminate impervious paving material			X		Site Develoment/Re-Development	
18	Expand downtown business districts to include mixed uses (including housing)	X			X	Site Develoment/Re-Development	
19	Utilize TND principles in redevelopment	X	X	X	X	Site Develoment/Re-Development	
20	Encourage development of alleys to enable higher density			X		Site Develoment/Re-Development	
21	Develop communites, neighborhoods and housing developments that are socially cohesive, reduce isolation, foster community spirit, and share resources (eg co-housing, common spaces)			X	X	Site Develoment/Re-Development	
22	Develop housing that is affordable to a variety of income groups within the same community				X	Affordable/Mixed/Fair Housing	
23	Provide for a diversity of occupants in terms of age, social and cultural groups				X	Affordable/Mixed/Fair Housing	
24	Build housing near employment centers	X			X	Affordable/Mixed/Fair Housing	
25	Promote community gardens within neighborhoods	X	X	X	X	Affordable/Mixed/Fair Housing	
Transportation							

1	Provide affordable, efficient transportation alternatives for everyone, especially low-income households, elders, and others comprising 30% of the national population that cannot or do not own cars	X		X	X	Employ Alternative Transit Systems Mass transit options that move folks between community network complexes can be frequent and low cost when population centers are well defined and they support the density needed to make mass transit cost effective.	
2	Use alternative to the drive-alone automobile, including walking, bicycling, and public transit	X			X	Employ Alternative Transit Systems Compact networks centers permit easy access by foot or bike when proper development planning is applied.	
3	Provide housing near places of employment	X			X	Development Planning to Reduce Travel by Working Locally Homes and industry can become interrelated if work sites are environmentally maintained.	
4	Reduce employee and product transport vehicle trips	X				Development Planning to Reduce Travel by Working Locally Redefine the work/job relationahip to minimize the need for travel	
5	Encourage locally-based or home-based work, reducing or eliminating the need to commute.	X			X	Development Planning to Reduce Travel by Working Locally Provide computer links or small shop areas for local work conduction, altering zoning to suit.	
6	Develop local street designs that encourage pedestrian and bicycle use and discourage high speed traffic	X			X	Development Planning to Reduce Travel by Street Design Separate truckand car traffic to arterials around main community networks.	
7	Propose street designs that support/enhance access between neighborhoods and to neighborhood-based commercial developments	X			X	Development Planning to Reduce Travel by Street Design Design street system with the pedestrian in mind, eliminating parking lots, wide streets, and single story spread-out construction and putting linkage lanes to interconnect communitites.	
8	Develop facilities that employ renewable energy sources, or reduce use of fossil fuel for their transport needs	X				Development Planning to Reduce Travel by Reduced Fuel Usage Encourage all sructures to become energy neutral or positive producers.	
9	Provide recreational facilities within walking and bicycling distance	X			X	Development Planning to Reduce Travel to Recreation Areas Neighborhood green spaces, etc which can second as other function in the community.	
10	Use local materials and native plants in facility design to reduce transport distances and reduce maintenance	X		X		Development Planning to Reduce Transport by Landscaping Materials Devise new uses for parks which might include things like geo-thermal heat loop beds, gardens, green-houses, and meeting places.	

11	Encourage landscape and park maintenance minimizing use of equipment powered by fossil fuels	X				Development Planning to Reduce Travel by Landscaping Employ landscape plants, terrain, methods, and maintence techniques that make maintenace less costly and time intensive.	
12	Reduce vehicle trips and vehicle miles traveled through compact, infill, and mixed use development	X		X	X	Development Planning to Reduce Travel by Grouped Development Existing communities can be retrofited to copact development through long term planning, but there has to be an intentional zoning directive.	
13	Develop a mix of integrated community uses -- housing, shops, workplaces, schools, parks, civic facilities -- within walking or bicycling distance	X		X	X	Development Planning to Reduce Travel by Grouped Development City community life centers are best when positioned closely so access is easy and all basic needs are available.	
14	Encourage human-scaled development that is pedestrian-friendly	X			X	Development Planning to Reduce Travel by Grouped Development Develop community networks where pedestrians can access key elements easily.	
15	Development oriented around public transit	X			X	Development Planning to Reduce Travel by Grouped Development Public transit becomes main source of travel between development centers.	
16	Encourage development near existing transport systems; minimizing need for new road and highway construction	X	X	X	X	Development Planning to Reduce Travel by Grouped Development Look to maximize development on road networks that will be maintained in lon run; new roads are last resort for future development.	
17	Foster local food production and agriculture that reduces need for long-range transport of food.	X			X	Development Planning to Reduce Travel with Food Local food production is founded in the preservation of agricultural land and water.	
18	Develop community gardens that reduce the need for long-range transport of food and associated consumption of fossil fuels.	X			X	Development Planning to Reduce Travel with Food Local food production provides a stable source of food for population that is not based on haifg transport cost; Develop space for local gardens and green houses.	
19	Encourage alternatives to the use of gas-powered vehicles. Such alternatives include public transit, alternatively-fueled vehicles, bicycle and pedestrian routes, and bicycle and pedestrian-friendly development design.	X		X	X	Alternative Vehicle Design The usage of alternative systems is closely tied to compact devleepment networks that provide all of the social needs. Publis transit moves people between development centers, which themselves can be easily accessed by people by walking and biking.	
20	Develop and use vehicles powered by renewable fuel sources	X				Alternative Vehicle Design This includes service station networks for fuel sources.	

21	Use regenerative energy alternatives to fossil fuel, or that work to reduce dependence on fossil fuel	X				Alternative Vehicle Design Fuel sources for transport needs to be locally produced ans sustainable.	
22	Encourage and enable people to use transport other than gasoline-powered vehicles	X			X	Alternative Vehicle Design Money savings of new systems will encourage use of new tranportation options.	
Utilities and Community Facilities							
1	Encourage the use of chemical-free and toxic-free building materials.	X	X	X	X	Development Planning to reduce the use of chemicals and toxins in building materials thus creating healther work and living spaces.	
2	Provide recreational facilities within walking and bicycling distance.	X		X	X	Development Planning to reduce travel to recreation areas.	
3	Provide equitable educational opportunities for all members of society.				X	Education Focus.	
4	Encourage the development of renewable energy sources.	X		X	X	Energy Focus to encourage or allow the development of renewable energy sources, i.e. waste to heat, solar panels, manufacturers of renewable energy products, etc.	
5	Look for ways to minimize energy use.	X		X	X	Energy Focus to explore methods to reduce energy, i.e insulation, windows, alternative fuels, fuel efficient vehicles, plantings, building positioning, etc.	
6	Use regenerative energy heating, cooling and lighting source alternatives to fossil fuel, or employ methods that are working to reduce dependence on fossil fuel.	X		X	X	Energy Focus to reduce dependance on fossil fuels.	
7	Use local materials in building design to reduce transport distances.	X		X	X	Energy Focus to reduce dependance on fossil fuels.	
8	Encourage all types of development to use alternative renewable energy sources and meaningful energy conservation measures.	X		X	X	Energy Focus to reduce energy use and the use of fossil fuels.	
9	Allow for solar-oriented design types of development.	X		X	X	Energy Focus to reduce energy use and the use of fossil fuels.	
10	Encourage the selection of building materials with low "embodied energy," which require less energy-intensive production methods and long-distance transport.	X		X	X	Energy Focus to reduce the carbon footprint.	
11	Raise awareness of the “cradle to grave” costs of waste generation and disposal.	X		X	X	Energy Focus to reduce the carbon footprint.	
12	Promote facilities that employ renewable energy sources, or reduce the use of fossil fuel for their operations and transport needs.	X		X	X	Energy Focus vehicles and buildings that use alternative energy sources or utilize a combination of alternative and fossil. For example use solar energy.	

13	Promote the preservation and planting of trees and other vegetation that absorb carbon dioxide and air pollutants.	X	X	X	X	Landscaping Focus to reduce air pollutants and building heating and cooling costs.	
14	Use local materials and native plants in landscaping to reduce transport distances, maintenance, watering and chemicals.	X	X	X	X	Landscaping Focus to reduce dependence on fossil fuels, natural resources and promote environmental protection.	
15	Encourage landscape and park maintenance that minimizes the use of equipment powered by fossil fuels (i.e. mowers, edger and leaf blowers).	X			X	Landscaping Focus to reduce dependence on fossil fuels.	
16	Encourage the use of alternatives to chemical pesticides and herbicides in park and facility maintenance (example: integrated pest management).		X	X	X	Landscaping Focus to reduce the use of chemicals that may harm the environment and human occupants.	
17	Encourage landscape design standards that minimize the use of pesticides and herbicides.		X	X	X	Landscaping Focus to reduce the use of chemicals that may harm the environment and human occupants.	
18	Develop community gardens that reduce the need for long-range transport of food and associated consumption of fossil fuels.	X		X	X	Local Food Focus that encourages local grown products to reduce the carbon footprint.	
19	Promote and remove regulatory barriers to composting and gray water reuse systems.	X	X	X	X	Solid Waste Reduction Methods & Water Conservation Methods to reduce material landfilled, groundwater usage, soil enhancer to reduce fertilizer use, runoff, etc.	
20	Promote the recycling of waste materials derived from non-renewable, non-degradable resources.	X	X	X	X	Solid Waste Reduction Methods to encourage recycling and reuse of produsts for manufacture of new products, i.e. used glass, plastics, paper thus protecting non-renewable resources.	
21	Support educational efforts to reduce levels of consumption and waste generation and increase the level of recycling at both the household and community levels.	X	X	X	X	Solid Waste Reduction Methods to encourage recycling and reuse of produsts.	
22	Encourage the use byproducts of other processes or whose wastes can be used as the raw materials for other industrial processes.	X	X	X	X	Solid Waste Reduction Methods to encourage reuse of produsts for manufacture of new products, i.e. used glass, plastics, paper thus protecting non-renewable resources.	
23	Remove code obstacles to using recycled materials for building.	X	X	X	X	Solid Waste Reduction Methods to encourage reuse of produsts thus minimizing the mining of virgin materials.	
24	Encourage the recycling of building construction waste materials and appropriate deconstruction techniques.	X	X	X	X	Solid Waste Reduction Methods to encourage reuse of produsts thus minimizing the mining of virgin materials.	

25	Develop responsible alternatives to landfilling of solid waste.	X	X	X	X	Solid Waste Reduction Methods to reduce amount landfilled, i.e. reuse of materials from using materials to manufacture new to reusing materials so that people don't have to buy new (goodwill, etc.), using waste to produce energy, etc.	
26	Design approaches and regulatory systems that focus on pollution prevention, re-use and recycling.	X	X	X	X	Solid Waste Reduction Methods to reduce amount landfilled, i.e. reuse of materials from using materials to manufacture new to reusing materials so that people don't have to buy new (goodwill, etc.), using waste to produce energy, etc.	
27	Minimize or reduce the use of chemicals and employ proper disposal and recycling mechanisms for these.	X	X	X	X	Solid Waste Reduction Methods to reduce material landfilled, reduce use of fossil fuels (plastics) and harmful chemicals, encourage the use of biodegrade materials.	
28	Discourage the use of products that utilize packaging derived from non-renewable, non-degradable resources.	X	X	X	X	Solid Waste Reduction Methods to reduce material landfilled, reduce use of fossil fuels (plastics), use of biodegrade materials.	
29	Promote and utilize on-site composting of organic waste.	X	X	X	X	Solid Waste Reduction Methods to reduce material landfilled, soil enhancer to reduce fertilizer use, runoff, etc.	
30	Educate citizens and public officials about both short- and long-term risks associated with the use and disposal of hazardous materials.		X	X	X	Solid Waste/Hazardous Materials Disposal to encourage reduction and safe disposal to protect groundwater and other natural resources.	
31	Encourage development that reduces or eliminates impervious paving materials.			X		Stormwater Management systems that provide a eco-friendly alternative to treating runoff and provide groundwater recharge.	
32	Encourage responsible stormwater management that reuses and restores the quality of on-site run-off – (example - constructed marsh or wetlands systems).			X		Stormwater Management systems that provide a eco-friendly alternative to treating runoff.	
33	Encourage and enable people to use transport other than gasoline-powered vehicles. Alternatives include public transit, alternatively-fueled vehicles, bicycle and pedestrian routes, and bicycle and pedestrian-friendly development design.	X		X	X	Transportation Focus to encourage alternatives to the automobile and fossil fueled vehicles. For example electric cars, walkable and bikeable communities, etc.	
34	Allow for the development and use of vehicles powered by renewable fuel sources.	X		X	X	Transportation Focus to encourage alternatives to vehicles fueled by fossil fuels. For example electric cars, bio-diesel, etc.	

35	Encourage forms of development, business, and agriculture that reduce the use of water, re-using wastewater on-site, and that employ innovative wastewater treatment that minimizes or eliminates the use of chemicals.		X	X		Wastewater Treatement that encourages business and agriculture to treat wastewater locally without harmful chemicals and to reuse wastewater to reduce the volume of water.	
36	Promote cleaning, conserving, and reusing wastewater at the site, neighborhood or community level, reducing the need for large, expensive collection systems and regional processing facilities.		X	X		Wastewater Treatment that treats wastewater locally therefore saving money on costly infrastructure.	
37	Promote innovative sewage and septic treatment that discharges effluent that meets or exceeds federal drinking water standards while minimizing or eliminating the use of chemicals (example: greenhouse sewage treatment facilities).		X	X	X	Wastewater Treatment that treats wastewater without creating byproducts that could harm the environment.	
Ag and Natural Resources							
1	Promote regional and local designs that respect the regional ecosystems and natural functions which support human communities.			X		Ecosystem Services Working within the natural systems can provide economic benefits, natural resource protection and improved quality of life for citizens	
2	Promote on-site composting of organic waste			X		Ecosystem Services Working within the natural systems can provide economic benefits, natural resource protection and improved quality of life for citizens	
3	Develop a system of green spaces within and among communities			X		Ecosystem Services Working within the natural systems can provide economic benefits, natural resource protection and improved quality of life for citizens	
4	When constructing buildings, maintain natural terrain, drainage, and vegetation, minimizing disruption of natural systems			X		Ecosystem Services Working within the natural systems can provide economic benefits, natural resource protection and improved quality of life for citizens	
5	Preserve or restore wetland areas along rivers for natural flood control			X		Ecosystem Services Working within the natural systems can provide economic benefits, natural resource protection and improved quality of life for citizens	
6	Promote the preservation and planting of trees and other vegetation that absorb carbon dioxide and air pollutants			X		Ecosystem Services Working within the natural systems can provide economic benefits, natural resource protection and improved quality of life for citizens	

7	Use local materials and native plants in facility design to reduce transport distances and reduce maintenance	X	X	X		Ecosystem Services Working within the natural systems can provide economic benefits, natural resource protection and improved quality of life for citizens	
8	Eliminate disproportionate environmental burdens and pollution experienced by historically disadvantaged communities.				X	Environmental Justice	
9	Preserve wilderness areas			X		Habitat Protection Ensures species diversity and long-term survival	
10	Preserve wildlife habitats and biological diversity of area ecosystems			X		Habitat Protection Ensures species diversity and long-term survival	
11	Use regionally native plants for landscaping			X		Habitat Protection Ensures species diversity and long-term survival	
12	Promote local food production and agriculture that reduces need for long-range transport of food.	X		X		Local Food Production	
13	Promote urban gardens, community gardens			X		Local Food Production	
14	Encourage locally-based agriculture, such as community supported agriculture, providing a nearby source of fresh, healthy food for urban and rural populations	X	X	X		Local Food Production	
15	Provide for funding for open space acquisition			X		Policy/Funding	
16	Guide development away from floodplains			X		Policy/Funding	
17	Guide development away from barrier beaches			X		Policy/Funding	
18	Remediation and redevelopment of brownfield sites and other developed lands that suffer from environmental or other constraints			X		Remediation	
19	Promote restoration of damaged natural systems through regenerative design approaches			X		Remediation	
20	Preserve and enhance of water quality			X		Water Issues	
21	Ecourage practices that result in a reduction in water use			X		Water Issues	
22	Ecourage practices that result in a recharge of groundwater basins			X		Water Issues	
23	Use of flood control and stormwater techniques that enhance and restore natural habitats			X		Water Issues	
24	Prevent the destruction of wetlands and restore degraded wetlands			X		Water Issues	

Cultural Resources							
1	Develop state and regional laws,codes and Cultural covenants to protect cemeteries and historical mound sites.				X	Historical and antiquity sites give us our past and helps guide our future decisions.	
2	Protect historical markers and monuments.				X	Historical and antiquity sites give us our past and helps guide our future decisions.	
3	Protect historical wooded areas and forest reserves of interest to the region.				X	Historical and antiquity sites give us our past and helps guide our future decisions.	
4	Protect and preserve buildings and lands of historical significance.	X	X	X		Architectural and land development gives us our history over time and through generations.	
5	Preserve archeological sites and structures.				X	Architectural and land development gives us our history over time and through generations.	
6	Protect and preserve cultural and historical public use structures - libraries,schools.				X	Architectural and land development gives us our history over time and through generations.	
7	Protect fire houses and other public buildings and land sites of value.				X	Architectural and land development gives us our history over time and through generations.	
8	Protect historical private buildings and land sites - taverns, breweries, meeting and union halls,churchs and cultural centers.				X	Architectural and land development gives us our history over time and through generations.	
9	Develop and upgrade historical industrial sites and districts.	X	X	X		Many industrial sites are polluted (Brown Fields) and should be upgraded to a useable condition.	
10	Develop and protect theater districts and related restaurants - cultural centers.				X	Preserve our artistic past for future citizens and for historical study and review.	
11	Protect and preserve river and lake frontage sites of historical interest.				X	Water frontage sites are and were important to the regions history and growth patterns.	
12	Develop renovation policies for historical bridges, tunnels, roadways and corridors.	X	X	X	X	Preserve our transportation infrasture when ever possible as this to adds to our growth history.	
13	Protect and preserve facilities of culture value - railroad stations and hotels.	X	X		X	Preserve our transportation infrasture when ever possible as this to adds to our growth history.	
14	Protect and expand river and lake front districts related to historical transportation.	X		X	X	Preserve our transportation infrasture when ever possible as this to adds to our growth history.	
15	Build on the ethnic culture of districts and neighborhoods - Chinatown.				X	Preserve and expand on the regions cultural and ethnic history.	
16	Protect housing districts of cultural and architectural value.				X	Preserve and expand on the regions cultural and ethnic history.	
17	Protect the homes of important people and events of special interest to the community.				X	Preserve and expand on the regions cultural and ethnic history.	
18	Develop historical housing projects and land developments of value to the community.				X	Preserve and expand on the regions cultural and ethnic history.	
19	Protect public and cultural usage facilities - Museums and Art Instutities.				X	Preserve and expand on the regions cultural and ethnic history.	

20	Protect park lands and lands of significant value to the community and region.				X	Preserve areas of historical group gatherings for future generations and a growing population.	
21	Protect nature preserves and wetlands.		X	X	X	Preserve areas of historical group gatherings for future generations and a growing population.	
22	Preserve nature trails and greenery areas.		X	X	X	Preserve areas of historical group gatherings for future generations and a growing population.	
23	Regulate high use parking and viewing areas to keep people moving through these areas and to promote public mass transit usage.				X	Plan for our growth trends based on present and projected growth patterns and transportation needs.	
24	Redevelop the central business district and commerical historical districts			X	X	Preserve and expand on our financial resources and related growth patterns.	
Economic Development							
1	Uphold design standards in the face of nonconforming development pressure, thus adding value to commercial districts	X	X	X	X	Building and Design The entire community benefits when sustainable practices govern planning and helps citizens understand the reasoning	
2	Promote historic preservation & adaptive reuse, to create development opportunities while reducing demolition debris		X		X	Building and Design There is social benefit to realizing the historical character of a community by reusing buildings and saving costs by the reuse of materials	
3	Use TIF districts and density bonuses as incentives for green building, brownfield remediation/redevelopment, & infill building	X		X	X	Building and Design Using financial incentives to support redevelopment of the least attractive community sites maximizes the benefits of the sustainability to the entire community	
4	Work with home builders & construction trades to cooperatively develop & market green building/remodeling	X			X	Building and Design Energy saving programs developed in conjunction with local businesses can be economically benefical to the broader community, reducing the overall energy demand through conservation programs and improved design	
5	Preserve the authentic, unique aspects of local heritage & culture, for the benefit of local residents and tourists				X	Culture and Tourism Capitilizing on the character of he community can be a great financial benefit as it fosters tourism by offering unique aspects of the community as a draw to the larger region	
6	Develop eco-tourism attractions that promote learning about ecosystems			X	X	Culture and Tourism The natural of the areas is another tourist attraction that can be marketed to the benefit of the community and which justies its maintenance.	

7	Investigate options for community or cooperative ownership of energy generation & distribution facilities	X			X	Energy Use of local energy generation will stabilize community energy supply, isolating it from energy up-sets that impact the community while making it an intergal part of the local economy	
8	Promote renewable energy component manufacturing & distribution by local industry				X	Energy Manufacture of local energy generation equipment will be an economic benefit to the local community	
9	Encourage co-generation of steam/electrical power among industries & governments	X			X	Energy Working together businesses and communities can realize mutual financial benefits	
10	Encourage appropriate home-based business & cottage industries through inclusive zoning	X			X	Entrepreneurship and Investment Home businesses reduces travel and encourages small businessess by reducing the start-up capital required	
11	Encourage small-scale and alternative agriculture by providing incentives and education, and by removing barriers (eg. Zoning)	X		X	X	Entrepreneurship and Investment Dollars directed to local food growth promote the regional economy, while stabilizing the food supply of the community and reducing the transportation costs to deliver it	
12	Encourage local governments to explore socially responsible investing of its fund balances and speical reserve accounts				X	Entrepreneurship and Investment Dollars directed in this way are used to support smaller and more sustainably focused businesses	
13	Seek out or start up a Community Development Financial Inststution (CDFI) that finances small business and affordable housing in disadvantaged areas				X	Entrepreneurship and Investment Directing start-up dollars to areas of greatest social need can generate community renewal as a by-product	
14	Cooperatively reuse waste, byproducts, and process water among industries and government		X		X	Industrial Ecology Working together businesses and communities can realize mutual financial benefits through waste reduction	
15	Encourage industries to adopt pollution prevention and waste reduction programs			X	X	Industrial Ecology Citizens and businesses benefit when the environment is protected through the use of recycled materials	
16	Encourage the use of recycled materials to minimize use of virgin raw materials		X	X		Industrial Ecology Maximizing the use of existing materials reduces the cost associated with new material purchase	
17	Localize the economy by conducting a community asset inventory, including businesses, non-profit organizations and citizen skills				X	Localizing the Economy Job creation is maximized when the services and needs for citiizens are created with good local community planning and communication	

18	Localize the economy by supporting locally-grown food networks and buy-local campaigns	X			X	Localizing the Economy Transportation energy is reduced and dollars for food are spent and circulated in the local economy	
19	Ask firms to integrate sustainability analysis into strategic planning and new product development	X	X	X	X	Strategic Process Basing business decisions on sustainable practices has been proven to be monetarily benefical to businesses, governments,and citizens, while addressing all four measures of sustainability	
20	Encourage firms and local governments to use life-cycle cost analysis in purchase/lease decisions			X	X	Strategic Process Long term total cost reviews that consider purchase, use and disposal direct the selection of lower capital cost options that also benefit the environment	
Intergov Cooperation							
1	Improve communication between all relevant governmental agencies and municipalities and other agencies				X	Cooperation	
2	Foster partnerships and maintain relationships with various non-profits for future volunteer assistance				X	Cooperation	
3	Work with other municiplaties to promote connectivity of bike/pedestrian trails				X	Cooperation	
4	Work with other municipalities to foster good energy policies, emergency response plans				X	Cooperation	
5	Investigate partnerships on developing municipal supplies of alternative energy sources	X			X	Cooperation	
Land Use							
1	Allow for solar-oriented design of development	X	X	X		Energy	
2	Guide development to existing developed areas and minimizing development in outlying, undeveloped areas			X		Natural Resources Protection	
3	Maintain a well-defined "edge" around each community that is permanently protected from development			X		Natural Resources Protection	

4	Promote appropriate development and population growth policies linked to carrying capacity of natural systems and community facilities			X		Natural Resources Protection	
5	Promote development patterns that respect natural systems such as watersheds and wildlife corridors.			X		Natural Resources Protection	
6	Create of financial and regulatory incentives for infill development; elimination of disincentives			X		Policy/Funding	
7	Promote compact development that minimizes the need to drive	X	X	X		Transportation	
8	Create a mix of integrated community uses -- housing, shops, workplaces, schools, parks, civic facilities -- within walking or bicycling distance	X	X	X	X	Transportation	
9	Promote human-scaled development that is pedestrian-friendly	X	X	X	X	Transportation	
10	Promote development oriented around public transit	X	X	X	X	Transportation	
11	Providing recreational facilities within walking and bicycling distance	X	X	X	X	Transportation	
12	Develop housing located near employment centers.	X	X	X	X	Transportation	
13	Allow for compact and clustered residential development, including reduced minimum lot sizes	X	X	X	X	Transportation	
14	Allow for land development that promotes local street designs that encourage pedestrian and bicycle use and discourage high speed traffic	X	X	X	X	Transportation	
15	Promote development near existing transport systems; minimizing need for new road and highway construction	X	X	X		Transportation	
16	Allow for home-based occupations and work that reduce the need to commute	X	X	X	X	Transportation	