

Chapter Five Utilities

Introduction

Utilities, as defined herein and for purposes of the plan, include all lines and facilities used to distribute, collect, transmit, or control electric power, natural gas, petroleum products, information (telecommunications), water, and sewage. Most utilities in Whatcom County are operated by special-purpose districts, private companies, or by cities. The County's responsibility for utilities provided by other agencies ranges from regulating land use to managing activities in public rights-of-way.

Electricity, natural gas, petroleum, and some other utilities treated herein are inherently regional and are regulated directly and indirectly at several levels, including by the Washington Utilities and Transportation Commission (WUTC) and the Federal Energy Regulatory Commission (FERC). At every level, changing regulations affect the way utilities will be managed through the planning period. Changes in the utility marketplace, together with new and varying utility needs, can be expected to affect the way other utilities are marketed, transmitted, and used.

Purpose

This section contains policies to guide Whatcom County in reviewing private utility development proposals and regional transmission proposals, and in reviewing and regulating utility services and facilities provided by other public agencies and the private sector. This section also provides a general framework for utility-specific comprehensive plans including those prepared by entities other than Whatcom County. The cities, Puget Sound Energy, Cascade Natural Gas, Public Utility District No. 1 (Whatcom PUD) and other special-purpose districts are encouraged to use the Whatcom County Comprehensive Plan in preparing their own plans and capital improvement programs.

It is the intent of this plan to support providers of electricity, natural gas, petroleum, telecommunications, [internet](#), and other utilities in fulfilling their public service obligations required by state law to provide service on demand to existing and future customers. It is also the intent of this plan to minimize any negative effects resulting from the provision of that service on the residents, infrastructure, and the environment of the county.

GMA Goals and Countywide Planning Policies

The goals, policies, and action plans in this chapter contribute to achieving several of the GMA planning goals, including those considering urban growth, reduction of sprawl, open space and recreation, and public facilities and services. The chapter has been written to satisfy those goals while also meeting the intent and requirements of the Countywide Planning Policies (CWPP) and general guidelines of Visioning Community Value Statements.

Although CWPPs do not address all utilities as a separate category, various types of utilities are addressed within a number of sections. Specifically, the policies

encourage sharing of corridors for utilities, trails, and other transportation rights-of-way. The CWPPs also call for cities to develop plans, in cooperation with existing water purveyors and other municipal corporations providing water or sewer services, affording urban-level water and sewer services within their Urban Growth Areas (UGAs). The interlocal agreements specified in the policies must address reasonable criteria for annexation and ensure adequate services including water and sewer utilities. The CWPPs specify that cities will not extend water and sewer utilities without an adopted program for annexation and an adopted Capital Facilities Plan. Exceptions may be made in cases where human health is threatened. The CWPPs require that if water extensions are made, they must be consistent with the service area boundaries and other provisions of the *Coordinated Water System Plan*. Outside of ~~Urban Growth Areas~~UGAs, cities and other public and private utilities may extend water only at rural levels of service. If rural levels of service are extended, availability of pipeline capacity to meet local supply needs shall not be used to justify development counter to countywide land development patterns and shall not be considered in conversions of agriculture land, forestry, or rural lands. These and other water quantity and quality issues covered in the CWPPs are addressed directly and supported in the goals ~~and~~ policies of this chapter, and any action plans adopted by Council of this chapter.

The Growth Management Act, in conjunction with CWPPs, clearly identifies the County in a decision-making role when it comes to utility provisions. This is implemented through the County's authority to set urban growth boundaries and can be specified through the Interlocal Agreements assigned in the CWPPs. It should be noted that the CWPPs are locally adopted and could be subject to change in the future.

GMA Requirements

The Growth Management Act mandates that counties required to plan under the act adopt comprehensive plans including "a utilities element consisting of the general location, proposed location, and capacity of all existing and proposed utilities, including, but not limited to, electrical lines, telecommunication lines, and natural gas lines." The utilities element will include maps illustrating existing and proposed facilities and define goals and policies concerning those facilities and future proposed locations for utility facilities and corridors. By future proposed locations, it is the interpretation of Whatcom County that "proposed" means projects that have been submitted to the appropriate Whatcom County agency seeking permits or approval. See **Map 5-1**, which shows existing and planned electrical facilities; **Map 5-2**, natural gas facilities; and **Map 5-3**, telecommunications facilities.

This plan does not address all the issues regarding energy or energy policy. As required by GMA, this plan addresses only those issues that are considered utility issues of Whatcom County. Therefore, this document does not address coal, automotive-oriented, or other non-utility energy issues except with regard to transmission corridors.

Whatcom County is not a municipal purveyor of electric power or water. While this chapter addresses provision of electric power and other utilities by private and public purveyors, it does not address water supply other than as might be provided by Whatcom PUD or through other various water districts, associations, or private wells

with one or more connections. Water supply and coordination affected by these organizations or parties is largely addressed in the *Whatcom County Coordinated Water System Plan (CWSP)*. Maps showing locations of water purveyors' pipelines and service areas, and locations of existing sewer system areas, are adopted as they presently exist or are modified.

Background Summary

Whatcom County is in a special situation due to its unique location between Canada and major utility users to the south. This creates a situation where utility services move through Whatcom County for their products to reach from the source to the destination. Whatcom County can be viewed as a gateway for utilities entering from Canada to reach demand elsewhere. This is especially true for natural gas, petroleum products, and electricity.

Utility services in Whatcom County are provided by a number of private and public utility operators. The main purveyor of electrical power within Whatcom County is Puget Sound Energy, but there are other providers as well, notably Whatcom PUD and the cities of Blaine and Sumas. Cascade Natural Gas provides natural gas for the county; however, there are locations throughout the county where natural gas is not available. Such locations have to rely on electricity, propane, or other means to meet their energy needs. Telecommunications are provided by multiple telephone, cable television, internet, and wireless communication companies. Water is obtained from private and public systems. Sewage treatment is primarily by septic system in the unincorporated areas of the County. There are areas of the County where consumers have the choice between multiple providers of the same utility service. Whatcom County supports free market competition for services, when such competition benefits the County consumers.

Whatcom County strongly encourages utilities to develop in a safe and rational manner based on the demand requirements of development consistent with the County Comprehensive Plan.

The 20-Year Capital Facilities Plan (Appendix E) provides additional information relating to water systems, sewer systems, and solid waste management.

Issues, Goals, and Policies

Locational Criteria for Siting Utilities

Countywide Planning Policies, open space, greenways, the environment, zoning, existing development patterns, urban growth areas, and other physical, political, business, economic, and geographical constraints, and plans will demarcate both the need for and the locations available for any new electric power and/or natural gas corridors. Electric power, communications, and natural gas purveyors are part of regional systems that are demand-driven and are regulated at the State and, to some degree, at the Federal levels. This chapter provides for general locations of utility facilities needed in the future. Precise locations will be determined in the future and will be evaluated through existing regulatory and review processes including conditional use and environmental review.

It is the County’s preference that utility corridors must be located in areas of least impact to the public and environment as measured by proximity to populous and environmentally sensitive areas. Furthermore, any construction activities within utility corridors should be done with proper notification and coordination.

While it is in the best interest of ~~Whatcom County citizens~~ the public to plan for the location of utility services in future growth areas, every effort must be made to avoid undesirable effects of locating those facilities in areas where the health or safety of Whatcom County residents may be adversely affected, where the development is prohibitively expensive, or where environmental costs may be too high. Utility corridors shall be shared by compatible utilities when safely possible.

Goal 5A: **Specify a clear process for determining appropriate locations and coordinating construction activities for future needed utility facilities, including electric power facilities greater than 55 kV.**

Policy 5A-1: Use ~~the existing conditional use, major project permitting,~~ and environmental review processes to evaluate and determine the suitability of proposed ~~suitable~~ locations for any new utility facilities not under exclusive Energy Facility Site Evaluation Council (EFSEC) jurisdiction or above the distribution level ~~during the planning period.~~

~~Policy 5A-2:~~ Any new construction, expansion, or improvements of utility systems located within the County’s Rights-of-Way should be done with proper notification to and coordination with Whatcom County Public Works, any co-located utility providers, and area businesses and residents, as applicable.

Policy 5A-~~32~~: When expansion or improvements of utility systems or generation facilities are being considered, Whatcom County prefers the following in the order provided:

- upgrading of existing facilities in existing corridors;
- parcels where generation is currently sited, or in already disturbed sites;
- replacing facilities in existing corridors where appropriate;
- sharing existing corridors.

Policy 5A-~~43~~: Encourage utility purveyors to consider underground installation of distribution facilities consistent with WUTC rates and tariffs.

Policy 5A-~~54~~: To the extent that installation of utility facilities affects growth patterns, utility services should be located and designed appropriate to the land use designation.

Policy 5A-~~65~~: Discourage siting utility facilities in known areas at risk due to climate impacts and natural hazard areas, unless public benefit outweighs the risk.

Policy 5A-~~7~~6: Ensure that utilities and power generating facilities are sited where they will not adversely impact the ~~ecological regime needed~~habitat of for threatened and endangered protected species.

Policy 5A-8: Whatcom County should work in good faith with the PUD to implement the goals and policies contained in the Utility chapter of the comprehensive plan.

Trends in Utility Technology

Changing technology will affect the costs and types of utility services and systems available. Technologies can evolve very rapidly, particularly when breakthrough discoveries occur. It is likely that new technologies will emerge and existing technologies will evolve within the planning period.

Goal 5B: Support the development and use of new utility and information technologies.

Policy 5B-1: Facilitate the use of new technologies by allowing flexibility in regulations and policies affecting utility facilities when it can be shown that a net benefit, including net reliability benefits, to the public is likely to result.

Policy 5B-2: Support development and use of new technologies.

Policy 5B-3: Recognize the economic opportunities and benefits communication services access provides to the community.

Policy 5B-4: Support development regulations that are flexible and receptive to innovations and advances in communication technologies and that recognize the positive impact of moving information rather than people.

Policy 5B-5: Work ~~closely~~ with major utility providers to enhance the County and private geographic information systems (GIS) databases.

Electric Power, Natural Gas, Petroleum, and Telecommunications

All Whatcom County residents should have access to utilities as defined in this section. The WUTC requires equitable availability and controls the price of electric power and natural gas services provided by investor-owned utilities. FERC does so for electric, natural gas, and petroleum facilities crossing state lines. Additionally, the Energy Facility Site Evaluation Council (EFSEC), the Department of Labor and Industries (~~L&IDL~~), and the US Department of Energy (DOE) regulate utility siting and operations. Goals relating exclusively to natural gas and hazardous liquid lines are addressed separately.

Changes in the utilities marketplace will probably create a need for recognition of a variety of service needs and for new models of how energy is distributed, stored, and used. Regulations concerning provision of utility services to consumers should remain flexible and offer opportunities for review with respect to changes in utility industry dynamics dictated by market forces and regulations at the state and federal levels.

Access to affordable, reliable, and highspeed internet access is essential for everyday activities such as working from home, remote learning, telehealth, staying connected to communities, and social interaction.

Goal 5C: Facilitate accessibility of utilities.

- Policy 5C-1: Support user access to natural gas, electric, and communications utilities.
- Policy 5C-2: Review the policies in this chapter as necessary in order to keep them current with market and regulatory changes.
- Policy 5C-3: Encourage the processing of utility permits concurrent with the processing of Major Development Permit and Planned Unit Development permit applications, when applicable.
- Policy 5C-4: Make use of advanced technology to assist government operations and enhance public accessibility.
- Policy 5C-5: Encourage regional planning of public facilities and utilities that will facilitate coordinated land-use management and capital facility construction.
- Policy 5C-6: Support capital facilities to correct existing deficiencies and to accommodate new growth in an efficient, cost effective, and timely fashion.
- Policy 5C-7: Public facilities and utilities will be designed and located in a manner that protects the integrity of planned land uses, existing land forms, drainage ways, natural systems, critical areas, and resource lands.
- Policy 5C-8: Extension of urban levels of utility services shall be limited to areas designated for urban development.
- Policy 5C-9: Appropriately scale public utility systems to accommodate anticipated population growth.
- Policy 5C-10: Support equitable internet access, affordability, and quality for all residents and businesses, with a target of 1 Gbps symmetrical service throughout the County.
- Policy 5C-11: Encourage utility purveyors to coordinate their construction activities and consider underground installation and co-location of facilities as a way to minimize ground disturbance and improve overall resiliency of utility infrastructure.

Policy 5C-12: Actively encourage and coordinate with wireless carriers to expand and upgrade cellular voice and data networks countywide, ensuring reliable coverage in all communities and along major transportation corridors.

Permitting Process Efficiency

Time required for permitting processes can increase development costs and can impede the timely provision of electric power and other utilities to residential, commercial, and business users. Any new utility installation requires precisely designed and selected components to complete and bring a facility on line. Careful planning is necessary to ensure the proper components are available as needed. Delays in obtaining permits can disrupt planning cycles and can result in utility services not being available when needed. Local permit processing should not interfere with or cause long delays for the provision of utilities to residents, industry, or business. However, permitting processes should also consider impacts to human and environmental health and facilitate mitigation measures when feasible.

Goal 5D: Minimize the time required for processing utilities permits.

Policy 5D-1: Maintain streamlined and simplified permitting processes relating to installation of utility facilities designed to serve existing or approved development, while mitigating against associated harms to human health and environment.

Goal 5E: Reduce unnecessary obstacles to land use development applications.

Policy 5E-1: County Planning and Development Services will notify and seek comment from utility operators concerning land use development applications adjacent to existing major utility facilities and will take comments received under advisement.

Policy 5E-2: Require evidence of compliance by the applicant with all relevant easement provisions as a condition of all discretionary and non-discretionary land use approvals.

Policy 5E-3: Utility companies shall provide notification of proposed projects to abutting landowners consistent with County code.

Impediments to the Provision of Utilities

The ability of utility purveyors to meet the mandates of WUTC and FERC could be affected by all of the following: GMA regulations, goals, and policies; plat covenants, conditions, and restrictions; infrastructure requirements; zoning; Countywide Planning Policies; and environmentally sensitive areas.

Goal 5F: Identify and remove impediments to effective siting of necessary utility facilities.

Policy 5F-1: Periodically review existing regulations to identify regulatory gaps and to eliminate unintended or unreasonable constraints on the provision of necessary utilities as defined in this section.

Policy 5F-2: Review and update Whatcom County Code to align with current state law.

Regulatory Controls Encouraging Energy Conservation and Efficiency

Energy Conservation and efficiency areis considered a substantial contributors to regional and local energy supplies. Generally, there are two components of conservation: *regulatory issues* and *infrastructure*. Regulatory issues include the efficiencies created by zoning density, development standards, establishing minimum energy efficiency standards, and energy code enforcement. Infrastructure issues include existing utility facilities and privately—owned equipment ranging from purveyor-owned hardware to consumer-owned appliances. While energy demand increases as a result of growth, conservation plays a large role in limiting the quantity of that new demand.

Goal 5G: Support cost-effective conservation as a significant supply factor and implement policies that promote energy conservation measures.

Policy 5G-1: Land use regulations shall be consistent with the conservation and other goals in this chapter and the climate element.

Policy 5G-2: Encourage and support the use of energy conservation strategies-based methods and technologies.

Policy 5G-3: Support energy conservation and energy efficiency in all proposed residential, commercial, and industrial projects by improving the energy efficiency of new construction and the existing building stock through building codes and practices, and support refurbishing and remodeling projects to include energy efficient components via expedited permitting and assistance.

Policy 5G-4: Facilitate and encourage conservation of resources, in order to delay the need for additional facilities for electrical energy and water resources, and to maintain adopted air quality standards.

Policy 5G-5: The County shallshould work with utility providers and consider funding opportunities for coordinated education and outreach and promoting energy education services in order to inform citizens the public about energy efficiency on energy conservation and the use of renewable energy sources.

~~Policy 5G-6: Consider use of renewable energy sources in County facilities. Improve energy efficiency in County facilities, vehicle fleets, and equipment consistent with the measures identified in the Whatcom County Climate Protection and Energy Conservation Plan (2007).~~

Policy 5G-6: Consider the County's potential role in supporting rural off-grid residential development in partnership with landowners and partners, where such development is designed to minimize public infrastructure demand, including demand on the energy grid, generate useful performance data, and remain consistent with the long-term use of adjacent resource lands.

Goal 5H: Support cost-effective renewable energy projects and implement policies that promote renewable energy projects.

Policy 5H-1: Land use regulations shall be consistent with the renewable energy and other goals in this chapter and the climate element.

Policy 5H-2: Explore emerging low-carbon or renewable energy technologies, and when applicable, update Whatcom County Code as needed to support renewable energy production, generation, transmission, and distribution.

Policy 5H-3: Whatcom County should engage and coordinate with Tribal treaty rights holders and other impacted communities before recommending resource, land, or water-intensive energy projects such as hydroelectricity, nuclear, and tidal energy when the County has permitting responsibilities.

Policy 5H-~~4~~2: Encourage and support the development of low-carbon or renewable energy projects and technologies, including pursuing renewable energy supply portfolios for the County from power suppliers as well as small local renewable energy projects such as anaerobic digesters ~~and~~ solar, battery energy storage systems, and wind energy, geothermal, nuclear, wave, tidal, and green hydrogen where applicable.

Policy 5H-~~3~~5: Support renewable energy incentives to businesses and groups to install for comprehensive renewable energy effortssystems.

~~Policy 5H-4:~~ ~~Locate solar energy generation equipment on County facilities where cost/benefit analyses prove advantageous over the life cycle of the facilities.~~

Policy 5H-6: Coordinate with the Department of Ecology for eligible renewable energy products through the Clean Energy Coordinated Permitting Process, Chapter 43.158 RCW.

Policy 5H-7: Work with utilities regulated under the Clean Energy Transformation Act (CETA) to ensure Clean Energy Implementation Plans align with state target for an electricity supply free of greenhouse gas emissions by 2045.

- Policy 5H-8: Support Whatcom Public Utility District’s energy efficiency programs and exploration of alternative energy sources, such as geothermal and fusion.
- Policy 5H-9: Support regional and statewide efforts to develop utility scale renewable projects to increase production of energy from renewable sources, such as wind, solar, green hydrogen, and other alternatives.
- Policy 5H-10: Explore pathways to support integrated off-grid renewable energy and utility systems — including solar generation with battery storage and alternative onsite wastewater treatment — serving low-impact rural residential development on resource lands, subject to applicable state health and building codes, site suitability, and County capacity considerations. Consider off-grid renewable energy systems as a complementary distributed energy strategy.
- Policy 5H-11: Support reliable, affordable, resilient, and environmentally responsible energy systems, including renewable, non-carbon or low-carbon, and emerging energy technologies, while ensuring appropriate protection of natural resources, treaty rights, cultural resources, public safety, and rural character.
- Policy 5H-12: Recognize geothermal energy, including hydrothermal, direct-use, closed-loop, and other emerging geothermal technologies, as a potential renewable energy resource that may contribute to regional energy reliability, economic development, and greenhouse gas reduction goals.
- Policy 5H-13: Recognize that certain non-carbon or renewable energy resources, including geothermal resources, may be geographically constrained and may require case-specific siting considerations based on geology, thermal resource location, transmission availability, environmental constraints, and public safety considerations.
- Policy 5H-14: The County should periodically evaluate and update development regulations, permitting procedures, definitions, and environmental review processes related to non-carbon, renewable, and emerging energy technologies to ensure regulations remain effective, scientifically informed, and consistent with state law, technological advances, and regional energy needs.

Policy 5H-15: The County may adopt or amend land use designations, zoning classifications, development regulations, conditional use procedures, performance standards, or other implementing regulations to accommodate non-carbon or renewable resource energy generation, storage, transmission, and related infrastructure, including location-dependent energy resources where appropriate and consistent with environmental review, public safety, and resource protection goals.

Policy 5H-16: Non-carbon or renewable resource energy generation, storage, transmission, and supporting utility infrastructure may serve essential public functions and should not be categorically precluded from consideration within the County where impacts can be appropriately mitigated.

Utility Corridors

Where feasible, multiple land uses in utility corridors should be encouraged. The potential for shared use of utility corridors should be realized to the greatest practical extent. While some corridor uses have proven incompatible and are clearly mutually exclusive, an effort shall be made to share utility corridors when utility distribution facilities others work well. Some uses are clearly mutually exclusive, but others are unaffected, and-or in some cases enhanced, by proximity to other uses thereby serving multiple needs.

~~Questions have been raised concerning potential for long-term, adverse health effects associated with exposure to 60Hz electric and magnetic fields. Many studies have been conducted concerning those effects and many are in process; results are mixed.~~

Goal 5I: **Facilitate maintenance and rehabilitation of existing utility systems and facilities and encourage use of existing utility corridors.**

Policy 5I-1: Encourage utility providers to explore expanded and/or joint use of existing utility corridors before seeking sites for new rights-of-way.

Policy 5I-2: ~~Promote,~~ When reasonable and feasible, promote the co-location of new public and private utility distribution facilities in shared trenches/corridors, as well as coordination of construction timing.

Policy 5I-3: Allow for recreational use of utility corridors where practical.

Policy 5I-4: Encourage utility companies to notify impacted residents of vegetation control measures.

~~**Goal 5K:** **Be responsive to new information on electric and magnetic field (EMF) research progress.**~~

~~Policy 5K-1: As new information regarding EMF becomes available consider the need for new standards.~~

~~Policy 5K-2: Educate the public with regard to any new information concerning possible EMF health effects.~~

Goal 5J: **Support direct and indirect economic benefits to Whatcom County originating with energy or utilities in general.**

~~Policy 5J-1: Recognize economic benefits derived from coordination of utilities with established and projected residential, commercial, and industrial growth patterns in the County.~~

~~Policy 5J-2: Require a utility proponent to show how the proposal provides local or regional benefit.~~

Policy 5J-3: Coordinate with Cities on the development, expansion, or improvement of energy and utilities infrastructure within city adjacent UGAs in effort to accommodate future growth and maximize potential benefits.

Natural Gas and Hazardous Liquid Transmission Pipelines

Transmission of hazardous liquids and gases by pipeline is an efficient and convenient transportation mode for ~~transporting~~ these products. However, pipelines pose a risk of ruptures and uncontrolled leaks of products ~~which that~~ are highly flammable, explosive, or toxic and therefore require careful consideration of pipeline siting, nearby land uses, and protection of pipelines from excavation damage. The goal is to protect the health, safety and welfare of County residents, to provide predictability for future pipeline siting, and to encourage communication and coordination with pipeline operators, landowners, and county, state and federal agencies.

~~The goals of Whatcom County regarding pipelines are: to protect the health, safety and welfare of County residents; to provide predictability for future pipeline siting; and to encourage communication and coordination with pipeline operators, landowners, and county, state and federal agencies.~~

The County is not able to control all issues regarding pipelines, as there are other agencies with jurisdictional authority (such as the Energy Facility Site Evaluation Council and the Federal Energy Regulatory Commission), as well as demand from areas outside of Whatcom County, which preclude the County from having the ultimate authority. Nonetheless, goals and policies for the County are appropriate and incorporated herein.

The following goals and policies shall apply to all ~~natural~~ gas and hazardous liquid transmission pipelines as defined by state and federal regulations. The goals and policies presented herein should be interpreted in conjunction with the general utility policies of this chapter where applicable, with priority and deference given to these policies which are specific to ~~natural~~ gas and hazardous liquid pipelines where they appear contradictory. The *Natural Gas and Hazardous Liquid Pipelines Background Report, Oct 2001*, contains more detailed information regarding pipelines and related issues. Map 5-2 indicates a notification area of 1,000 feet (500 feet from each side

of the pipeline) for ~~natural~~ gas and hazardous liquid transmission pipelines, which may be of value to the public.

Goal 5KM: ~~Facilitate a coordinated approach for the siting of natural gas and hazardous liquid transmission pipelines to protect the current and future health, safety, and welfare of county residents. Protect the citizens and the environment of Whatcom County through informational, educational, and regulatory measures.~~

Policy 5KM-1: Seek intervener status on all pipeline proposals ~~which~~ that may not be within the County's regulatory authority, so as to preserve the County's legal right to retain a voice in the proposal. The County will review a pipeline proponent's application and file comments with the reviewing bodies according to the appropriate procedure and within the timelines provided. Staff shall engage in continual and ongoing communication with the regulatory authorities regarding the project as the need or occasion arises.

Policy 5KM-2: Carefully scrutinize new or updated franchise agreements. Review and evaluate model franchise agreements, if available, for provisions to be incorporated into negotiations ~~discussions~~ regarding proposed provisions ~~and mitigations~~ in future franchise agreements. Consider the adoption of a franchise agreement ordinance for consistency and guidance if multiple new agreements are anticipated.

Policy 5KM-3: Provide information, education, and notification programs to alert the public of pipeline location and safety considerations when making land purchase or development decisions adjacent to transmission pipelines.

Policy 5KM-4: Require transmission pipeline operators to provide accurate 'as-built' pipeline maps as a condition of approval for any county development permit. In addition to scaled plan maps ~~which shall be~~ accurate to the parcel level, pipeline information (pipe size, allowable pressure, fuel type, etc.) shall also be required. Whatcom County's GIS staff is to provide update copies of all major pipeline routes to Whatcom County's Division of Emergency Management.

Policy 5KM-5: Require, early in the transmission pipeline permitting process, that the proponent provide funds to the County, adequate to cover the cost of an informational session ~~which will be~~ conducted by an independent third-party ~~to be~~ selected by the County on the topics of eminent domain and right-of-way acquisition. Pipeline proponents shall also be required to conduct "open house" and "town hall" style public meetings as a part of any land use development permit process for a new or major transmission pipeline expansion.

- Policy 5KM-6: Require pipeline proponents to notify cities if the proposal is within their urban growth area, and all utility providers and special purpose districts where the siting of new pipelines crosses those service areas.~~Require transmission pipeline proponents to notify all fire, water, and sewer districts and jurisdictions with urban growth areas where the siting of new pipelines crosses those service areas.~~
- Policy 5KM-7: Monitor transmission pipeline construction to ensure pipelines are installed in accordance with all applicable County, state, and federal critical area regulations.
- Policy 5KM-8: Encourage the Office of Pipeline Safety to enact stronger safety measures for transmission pipelines, and to encourage pipeline applicants to voluntarily enact stronger safety measures than required by federal law.
- Policy 5KM-9: Require land division and land use applicants to show transmission pipelines on application maps when any part of the property involved in the application is located within 500 feet of the centerline of the pipeline corridor.
- Policy 5KM-10: Encourage communication between property owners and transmission pipeline operators to minimize the risk of inadvertent damage to transmission pipelines and to provide guidance to property owners about minimizing further risk through site design or construction. Require notification of transmission pipeline operators at the earliest possible stage of application review (at least concurrent with other land use application notifications).
- Policy 5KM-11: Require protection of the pipeline corridor by prohibiting land disturbance and construction within defined rights-of-way except by express written consent from the pipeline operator.
- Policy 5KM-12: Prior to issuing any land disturbance or construction permits abutting pipeline rights-of-way, ~~Verify that~~ applicant's use one-call locator services in accordance with state law, ~~prior to issuing any land disturbance or construction permits abutting pipeline rights-of-way,~~ and require physical protection of the pipeline corridor during construction.
- Policy 5KM-13: Encourage ongoing coordination and communication between pipeline operators and the emergency response community including the ~~Local Emergency Planning Committee~~County's Emergency Management Division, Health Department County Health and Community Services (HCS), ~~fire~~ Districts, and ~~the~~ Sheriff's Department to promote education, awareness, emergency response, and evacuation planning with regard to the environmental and health impacts of potential spills or leaks. Require pipeline operators to share detailed specifications about

their pipelines and products with the emergency response community to facilitate better emergency preparedness.

Policy 5K-14: Provide predictability for future pipeline siting by coordinating future land use designations with pipeline infrastructure.

Policy 5K-15: Encourage pipeline operators and agencies to communicate and coordinate with landowners as well as agencies at the county, state, and federal levels.

Goal 5LN: **~~Develop~~ Maintain locational siting criteria specific to special conditions regarding transmission and large distribution pipelines.**

Policy 5LN-1: Use GIS-based siting criteria for evaluating transmission pipelines consistent with the policies for transmission pipelines and the recommendations in the *Natural Gas and Hazardous Liquid Pipeline Background Report, Oct 2001*.

Policy 5LN-2: Encourage transmission pipelines to locate adjacent to or within established corridors where possible. Require applicant justification for proposed deviations.

Policy 5LN-3: Transmission pipelines are inappropriate and discouraged in urban growth areas (UGAs) and limited areas of more intense rural development (LAMIRDS).

Policy 5LN-4: No transmission pipeline facilities should be constructed or located in critical areas without fully mitigating the project impact.

Policy 5LN-5: Designated agricultural and forestry lands are preferred locations for transmission pipelines, provided special attention is paid to facilitating and not impeding agricultural drainage.

Policy 5LN-6: Restrict the location of transmission pipelines in high-risk landslide areas where evidence of instability ~~could~~ can be ascertained by recent events or verifiable geological conditions.

Policy 5LN-7: Prohibit new land uses with high on-site populations that are difficult to evacuate or new essential public facilities from being located nearer than 500 feet from the centerline of a transmission pipeline.

Policy 5LN-8: Require that applicants for land divisions, high-consequence land uses, and essential public facilities~~expanded land uses and facilities~~ located nearer than within 500 feet ~~from of~~ the centerline of a ~~transmission~~ pipeline corridor ~~to~~ not increase the level of risk from a pipeline failure and use site design, building, technological, and/or operational techniques to reduce or minimize risk.

Policy 5LN-9: To allow continued use of property, especially agriculture, pipelines must be installed and maintained deep enough and in a manner that maximizes the ongoing use of the land consistent with the zoning in place at the time the pipeline was approved.

Water Supply

Whatcom County residents obtain domestic water from public and private water systems. Water supply requirements of state law require new development to provide evidence of adequate water supplies—meaning both legal and physical water availability. For the purpose of this discussion, the term "public" refers to the State Department of Health (HealthDOH) definition, and not to ownership of the system. This distinction is important and can often be confusing. Public systems, as defined by the State Health DepartmentDOH, must comply with specific regulations designed to protect the health of people using the supply. Private systems do not have to meet these same requirements. However, the County Council, acting as the Board of Health, adopted the Whatcom County Drinking Water Ordinance in 2002, which established standards for private water systems used for new development. This ordinance includes siting criteria, such as setbacks from septic tanks, and initial water quality sampling requirements. It does not impose on-going water quality monitoring on private water systems. This ordinance was last amended in 2018.

The complete definition of a public water system is found in WAC 246-290 and WAC 246-291. In general, State HealthDOH regulations define a public water system as all systems *except* those serving only one single family residence or a system with four or fewer connections all of which serve residences on the same farm. However, the regulations do allow systems with only two connections to be exempted from State HealthDOH rules at the discretion of local/State HealthDOH. Whatcom County has taken advantage of this allowance and, in certain circumstances, does not require residential systems with two services to meet public systems requirements. However, these two-party wells ~~that are~~ exempt from state-DOH rules must still comply with the County's Drinking Water Ordinance.

Over ~~80% percent~~ of Whatcom County residents obtain potable water from a municipality or public water system. The rest obtain their drinking water from private water supplies including wells, surface water, and rainwater catchment-. Water is critical to Whatcom County agriculture; irrigation is necessary for all high-value crops. Livestock must be watered year--round, and dairy equipment and facility cleanup also ~~go on~~occur all year. Some industries are also large-scale water users, and they may need both potable and non-potable water.

Four major water systems,-- PUD #1 of Whatcom County (Whatcom PUD), City of Bellingham, Lake Whatcom Water and Sewer District, and City of Lynden, draw surface water from the Nooksack River and Lake Whatcom. Most of the rest rely on groundwater as their source. This is not as distinct a difference as it seems, since Whatcom County water resources are an interconnected system. Water supply for public water systems in the county is identified in the *Coordinated Water System*

Plan. The current Whatcom County Coordinated Water System Plan (CWSP)¹ coordinates the plans of the county’s public water purveyors (e.g., forecasting demand, identifying supplies and service areas) with the objective of ensuring the County has an adequate supply of potable water to serve planned domestic, commercial, and industrial uses, provided by public water systems. The CWSP must be consistent with this Comprehensive Plan, including land use designations, permitted densities, and related growth management policies, including identifying sufficient water supplies to accommodate projected growth for the next 20 years. The CWSP was updated and adopted in 2025.

The 2025 CWSP planning framework is consistent with this Comprehensive Plan’s population forecasts and other amendments directing a greater share of future development towards urban growth areas that have greater available water supply for growth. Under the 20-year population growth allocations for the cities and county in this 2025 Comprehensive Plan Update, the non-UGA growth allocations represent a significant reduction in the allocated future growth share to rural areas (more reliant on permit-exempt wells) compared to the 2016 Comprehensive Plan rural population allocations and past trends over the last several decades. The allocated share of growth to UGAs (reliant on municipal water supplies) over the next 20 years is commensurately higher than allocated under the 2016 Comprehensive Plan.

The largest purveyor in the county is the City of Bellingham. Bellingham directly supplies water to ~~about more than 76,000~~88,000 people, relying primarily on water from Lake Whatcom and the Middle Fork of the Nooksack River via a diversion pipeline. However, Bellingham also sells water to Water District 2, Water District 7, Water District 10, Lake Whatcom Water and Sewer District, California Street Water Association, Montgomery Road Water Association, Deer Creek Water Association, Lummi Tribal, Glen Cove Water Co-Op, Ferndale Emergency Intertie, and Governors Point and the Lummi Water & Sewer District. ~~If water sold to these districts were included, Bellingham provides water to approximately 88,000 people.~~ The City also has the largest collection of water rights of all purveyors in the county. This large water right portfolio could enable it to continue its role as a major purveyor in the future.

The Public Utility District No. 1 of Whatcom County (Whatcom PUD), which obtains water from the Nooksack River, has the second largest collection of rights in the county. The Whatcom PUD is a public water utility authorized under RCW Chapter 54 which provides retail service within its designated service boundary and has the potential to provide wholesale water on a county-wide basis. The Whatcom PUD currently provides both direct retail and wholesale water supplies to customers within the county. The Whatcom PUD holds water rights for municipal water supply purposes – including residential, commercial, industrial, and agricultural use. Pursuant to state law, the Whatcom PUD develops and provides water supply within its service area in accordance with authoritative demand and/or population projections.

¹ <https://www.whatcomcounty.us/DocumentCenter/View/24740/2019---Whatcom-County-Coordinated-Water-System-Plan-CWSP?bidId=>

The Whatcom PUD will consider petitions for service or assistance from all areas in Whatcom County which are not presently claimed by cities, water districts, or other purveyors operating within the county. The level of service to be provided to PUD customers requesting service or new supply will be consistent with their water rights and relevant capital facility and/or land use plans and policies in existence at the time of service extension.

Regardless of size, public or private, many water purveyors in Whatcom County face common challenges in meeting existing and future demands. Water quality concerns which have been identified include nitrates, arsenic, bacteria, iron/manganese, sea water intrusion, and pesticides/VOCs. Quantity concerns include legal limitations on supplies and questions regarding actual amounts and depletion of water. Regulatory requirements under the Safe Drinking Water Act, for example, further challenge the ability of purveyors to meet new demands.

1985 Instream Flow Rule

The 1985 Instream Flow Rule (WAC 173-515) sets minimum streamflow levels for the Nooksack River and its tributaries, and aims to ensure adequate water for fish migration, spawning, and overall ecosystem health. Its use of exceedance levels (10%, 50%, or 90%) to balance water usage between ecological needs and human demands essentially limited future uninterrupted water supply, while recognizing that groundwater could be used to meet future water needs. However, the 1985 rule did not fully account for the interaction between surface and groundwater where groundwater withdrawals can reduce streamflow in connected surface water systems. The impact of new groundwater withdrawals was then addressed in the 2018 Streamflow Restoration Act. The 1985 Instream Flow Rule and the 2018 Streamflow Restoration Action present limitations for both current and future water supplies. Policies in the Whatcom County Comprehensive Plan Chapter 10 (environment), also address the role of water right relinquishment as well as strategies that can help mitigate water supply deficiencies in the future in the context of both out-of-stream and in-stream water needs.

Adjudication

A water adjudication is a legal process to quantify and prioritize water rights in WRIA 1, the Nooksack Basin, including the entire Nooksack River watershed and nearby areas. The Washington Department of Ecology initiated this process in May 2024, and it is expected to last over a decade. All those who withdraw water from a well or divert water from a waterbody in WRIA 1 are involved, but not those who solely rely on water received from municipal water suppliers such as a city, water district, or water association. Evidence collection and submission will follow, culminating in a court-ordered inventory of all legal water rights. This adjudication is a result of the Water Resources Adjudication Assessment, which identified WRIA 1 as a priority area due to its water resource challenge.

WRIA 1 Watershed Management Board

The WRIA 1 Watershed Management Board is an integrated, multi-government structure for coordinating and facilitating implementation of WRIA 1 programs.

The WRIA 1 Watershed Management Board was established by a joint Interlocal Agreement in 2016 by the WRIA 1 Joint Board and WRIA 1 Salmon Recovery Board. This board retains a collaborative multi-jurisdictional decision-making process and combines the duties and functions of the roles under the previous agreements.

The WRIA 1 Watershed Management Board developed a 5-year Implementation Strategy in 2018, and it was updated in 2021. The 2018-2023 WRIA 1 Watershed Management Board Implementation Strategy represents an integrated strategy to advance implementation of actions associated with the primary functions of the WIRA 1 Board.

Meeting existing and future water demands throughout the county will require careful integration of land use and water resource planning. The County's strategy to meet existing and future water demands throughout the county include:

- Periodically updating the Coordinated Water System Plan (CWSP) to identify future supply, demand, and delivery requirements for the public water systems that supply the majority of potable water supplies in the County;
- Implementing and updating the 2018-2023 WRIA 1 Watershed Management Board Implementation Strategy ~~WRIA 1 Management Project's 2005 WRIA 1 Watershed Management Plan, the 2007 WRIA 1 Detailed Implementation Strategy, and the 2010 Lower Nooksack Strategy~~, including pursuing water rights negotiations, developing a groundwater model to better understand groundwater supply potential and continuity with surface waters, and identifying future non-public water system needs such as agriculture and private well owners;
- Adhering to the various protection and management strategies discussed in Chapter ~~Eleven~~Ten: *Environment, Water Resource Section*;
- Incorporating the updated comprehensive water plans developed by water purveyors; and
- Implementing the Capital Facilities Plans and Interlocal Agreements developed by the cities and County under the *Growth Management Act to facilitate delivery of water to urban growth areas*.

Although the various tools noted above will assist in helping to meet water demands, there is work to be done in both completing the specific elements and ensuring their consistency with each other.

With so many uncertainties and so few clear answers, caution is necessary in making water-related decisions. It is likely that much dialogue, coordination, and clear understanding will be necessary to work through a myriad of water-related issues and decisions. Changing priorities, organization, and regulations at state and federal levels make comprehensive decision-making yet more arduous. County staff and elected officials must participate in all processes aimed at quantifying, regulating, or

managing water in any way to protect the best interests of ~~our citizensthe public.~~ Specifically, ~~the WRIA 1 Watershed Management Plan, WRIA 1 Detailed Implementation Plan, and Lower Nooksack Strategy were developed to address issues of water quantity, water quality, fish habitat, and in-stream flows. Additionally, Whatcom County created the Water Resources Division of the Public Works Department in 1999 to address water issues.~~

Water rights are a significant issue in planning for adequate facilities. Treaty rights with the tribes, minimum instream flows for adequate protection of fish, and use and protection pursuant to state water laws all affect the issuance of new water rights. The County will review plans periodically to ensure consistency with the growth and population projections of this plan, and changes in the availability of water or permits that may affect the ability to serve.

Because of concerns about water supply and requirements of state law, development will be contingent on providing evidence of adequate water supplies.

Goal 5MP: **Resolve county water issues through proactive participation in processes leading to a solution of water-related conflicts.**

Policy 5MP-1: Plan for interlocal agreements with other agencies, such as the Whatcom PUD, to manage failing water associations that fall into receivership.

Policy 5MP-2: Encourage and actively participate in forums, workshops, and other water-related planning activities.

Policy 5MP-3: Discourage extension of urban levels of water service to areas not designated as urban growth areas or Rural Communities, except in those limited circumstances shown to be necessary to protect basic public health and safety and the environment and when such services are financially supportable at rural densities and do not permit urban development.

Policy 5MP-4: The County should periodically examine its role as a potential purveyor of water and wastewater collection and treatment sewer service in order to determine if increased involvement may be needed to help solve some of the utility problems in the county.

Policy 5MP-5: Investigate the opportunity for multiple solutions to other issues, such as flood management, when looking towards acquiring additional water supplies and rights.

Policy 5MP-6: Evaluate and, where feasible, support development of water storage systems that take advantage of floodwaters, high precipitation, and excess water when needed for beneficial uses such as fisheries, agriculture, domestic, and industrial water supplies. Prioritize projects that maintain or enhance watershed function, such as natural water storage projects, over those that degrade existing natural systems and infrastructure. Evaluate and, where feasible, support alternative supplies of water such as

~~desalinization, re-use of treated wastewater, and storage of floodwater. Investigate reservoir holding ponds that take advantage of floodwater when needed for beneficial uses such as fisheries, agriculture, domestic, and industrial water supplies.~~

~~Policy 5M-7: Encourage and support the broad implementation of water use efficiency.~~

Goal 5NQ: ~~Work with water purveyors to provide service to all existing and designated Urban Growth Areas and industrial areas LAMIRDS.~~

Policy 5NQ-1: Work with the appropriate jurisdictions to ensure adequate water rights and supplies to the Urban Growth Areas and ~~designated industrial areas in northwest Whatcom County LAMIRDS~~. Consider all options, including but not limited to, extension of water service areas, conjunctive management of surface and groundwater, artificial storage and recovery, and reclamation of wastewater.

Policy 5NQ-2: Ensure provision of urban levels of water service to urban growth ~~within areas designated for urban growth.~~

Policy 5NQ-3: Periodically review Urban Growth Areas to ensure adequate water supplies.

Policy 5NQ-4: Encourage annexation of areas zoned for urban densities concurrent with extension of urban level services.

Policy 5NQ-5: The County should work closely with purveyors and the ~~State Department of Health DOH~~ in the development and review of Comprehensive Water Plans to ensure ~~consistency with~~ land use and urban growth are consistent with projected water availability area needs.

Policy 5NQ-6: The County will work with the Department of Ecology, City of Bellingham, the Port of Bellingham, the PUD, and local, regional, and state economic development agencies to ensure an adequate water supply to areas planned for industrial development.

Goal 5OR: ~~Prioritize locating housing near existing potable water supplies that are available for occupancy and use to serve developments. Ensure that potable water supplies required to serve development are available at the time the development is available for occupancy and use.~~

Policy 5OR-1: ~~Permit applicants for uses Building permit requiring water service applicants, new subdivisions, short plats, and binding site plans will shall~~ be required to provide evidence that adequate and legal

(in consultation with the Department of Ecology) supplies of water are available prior to their approval by the County.

Policy 5OR-2: Work with water purveyors ~~to assist them~~ in modifying their systems, as ~~necessary~~required, to support anticipated development as described in the Chapter 2, Land Use element of the comprehensive plan.

Policy 5O-3: The majority of future growth and development should be directed towards urban growth areas that have the greatest available municipal water supplies.

Policy 5O-4: Update Group A water systems plans to include a climate resilience element at the time of approval, as required by HB 1181.

GOAL 5P: Identify, quantify, and plan for water demands in various zoning designations, ensuring sustainable use of water resources.

Policy 5P-1: **Agriculture Zoning:** Accurately assess and quantify irrigation acreages necessary to sustain the designated agricultural zoning of 85,000 acres with the goal of increasing to 100,000 acres. Establish a system for flexible movement of irrigation water across the designated agricultural zones as needed, depending on varying seasonal demands, crop needs, and water availability, and that promotes efficient and sustainable irrigation practices.

Policy 5P-2: **Rural Forestry Zoning:** Accurately assess and quantify water needs for the designated 35,638 acres in rural forestry zoning designations, with water needs arising from various activities such as agriculture, animal care and feeding, sawmills, shake, and shingle mills, maintenance buildings, and one single-family dwelling per legal lot. To fully support the water needs of the designated land for rural forestry, the ability of water associations to serve and the current and future number of exempt wells needs to be quantified to ensure adequate water supply for all intended uses.

Policy 5P-3: **Commercial Forestry Zoning:** Accurately assess and quantify water needs for the designated 186,243 acres of commercial forest zoning designations, with water needs arising from activities such as sawmill operations, fish and wildlife management, recreational vehicle usage, housing for trail crews, fire crews, nursery crews, logging crews, and maintenance crews, as well as livestock care. To fully support the diverse water needs for forestry and related operations, it is necessary to quantify current and exempt wells required to ensure adequate water

supply for this zoning, and encourage use of water-saving measures in forestry activities.

Policy 5P-4: **Rural Zoning:** Accurately assess and quantify water needs for zoning acreage and lots of record in the rural zoning designations and quantify the current and future supply for intended uses associated with those acreages and lots. To fully support the water needs of the designated land for rural, the ability of water associations to serve and the current and future number of exempt wells needs to be quantified to ensure adequate water supply for all intended uses.

Policy 5P-5: Evaluate water management strategies to address insufficient instream flows and out-of-stream water needs.

Sewage Treatment

Whatcom County does not currently own, operate, or maintain a sewage treatment facility or associated pumping stations or pipelines. Sewage treatment in the unincorporated county is primarily by septic system. While adequately designed and installed on-site septic systems can be appropriate for rural-level development, maintenance of such systems varies from excellent to none-at-all. Poorly maintained septic systems are a source of ground and surface water pollution and have been identified at both the state and the local level as significant contributors to high nitrate levels in soil and coliform bacteria in surface water. Some systems can be in a failure mode for years before being noticed. "Package" sewage treatment systems and multiple-user septic systems may be a desirable alternative to the single-user, on-site system. Larger sewage treatment facilities are more appropriate for urban levels of growth. Whatever type of system is used, adequate maintenance is the best deterrent to system failure and to pollution of ground and surface water. Whatcom County's On-Site Sewage System Program (OSS) oversees permits, education, and inspections regarding on-site sewage systems in the County.

Goal 5QS: **Reduce the incidence of on-site sewage treatment system failure through system management and enforcement of standards.**

Policy 5QS-1: Support state on-site sewage system regulations (WAC 246-272) ~~which requires that by maintaining local health departments~~ the HCS implement a program of ensuring proper maintenance and operation for all on-site systems.

Policy 5QS-2: The maintenance and operation program should be ~~phased in beginning with~~ coordinated in conjunction with high priority areas designated by the County Council. In implementing this policy, Lake Whatcom and Drayton Harbor are high priority areas.

Policy 5~~Q~~S-3: The ~~development and~~ implementation of the maintenance and operation program should consider use of the private sector where possible.

Policy 5Q-4: Per RCW 43.20.065, Whatcom County OSS shall provide updated on-site sewage system information on its website that is consistent with state code.

Goal 5~~R~~F: **Support development of new sewage treatment facilities, including ~~new pipelines and extensions of existing pipelines,~~ to Urban Growth Areas ~~areas designated for urban-level growth.~~**

Policy 5~~R~~F-1: Discourage extension of sewer lines ~~in to~~ areas ~~not designated as outside of~~ Urban Growth Areas or Rural Communities, except in those limited circumstances shown to be necessary to protect basic public health and safety and the environment and when such services are financially supportable at rural densities and do not permit urban development.

Policy 5~~R~~F-2: For those areas designated as Rural Communities and wishing to infill, work with the communities to create sewer and water districts as necessary to manage both utilities. Public water and sewer service shall be limited to areas where existing lot sizes and development patterns make public water and sewer appropriate and shall not be extended outside of the Rural Community.

Policy 5~~R~~F-3: Assist sewer and water districts in environmental review and mitigation and in preparing grant applications to obtain package sewer services that can be developed in a phased and cost-effective manner to serve designated Rural Communities.

Policy 5~~R~~F-4: Support the development of new technology and alternative sewage disposal methods as an alternative to ~~expensive current~~ sanitary sewer systems to assure groundwater quality is maintained. This includes composting toilet systems and engineered graywater management meeting applicable state health standards, particularly where deployed in conjunction with low-impact rural residential development that minimizes the need for new public infrastructure.

Policy 5R-5: Encourage utility providers to address aging and inadequate sewage infrastructure by prioritizing upgrades and maintenance strategies that mitigate risks related to climate change impacts, including sea level rise, flooding, and severe storm events.

Solid Waste Management

State law (RCW 70.95.010) requires counties to plan an integrated solid waste management system that emphasizes waste reduction and recycling. Management of solid waste that cannot be recycled can be incinerated or placed in a landfill. ~~Whatcom County Health Department~~HCS is the lead planning agency for solid waste planning in the County as of January 1, 2015, taking on the responsibility formerly ~~with—assigned to~~ the Public Works Department. The County prepared a Comprehensive Solid and Hazardous Waste Management Plan in ~~2008 and began the process of updating the plan in 2014~~ 2022. That plan has been prepared to meet the requirements of RCW 70.95.

Private collection, processing, and disposal services managed in accordance with the provisions of ~~e~~County ordinances and city contracts constitute Whatcom County's solid waste management system. Adopted Disposal and Collection Districts, and a Service Level Ordinance serve as the foundation for county waste management. The Lummi and Nooksack Reservations and the Newhalem area are ~~excluded from the planning area not included~~ in the County's waste management plan.

Generally, County waste management system priorities are met by waste prevention, recycling and source-separated composting, market development to increase local use of recyclables, collection, transfer, export, and land-filling.

The county includes several waste-prevention programs as part of its highest waste management priority, including waste reduction and re-use, education, legislation, and governmental waste-prevention activities. Education is directed at school-age children through in-school programs; at commercial businesses; at shoppers; and at the general public through awareness programs, videos, demonstration sites, and awards programs.

Whatcom County ~~and the City of Bellingham jointly~~ provides a hazardous waste management program including education, technical assistance, and operation of a moderate risk waste (MRW) facility. The MRW facility receives household hazardous waste and small quantities ~~ies ies of commercial hazardous y generator~~ waste and prepares the waste for off-site treatment and disposal.

Goal 5SU: **Support waste prevention for both solid waste, including food waste, and hazardous waste as a primary focus prior to waste management.**

Policy 5SU-1: Support solid waste source reduction activities, including countywide conservation education programs, source reduction technical assistance for small quantity generators through the programs for county agencies, Pollution Prevention Assistance Program, a waste-exchange and materials re-use clearinghouse, and home composting, and commercial waste reduction, including reducing the volume of nonrecyclable single-use items and product packaging materials. ~~other activities related to yard debris.~~

Policy 5S-2: The County’s waste diversion goal is to increase source-separated recycling, with additional diversion potentially available through waste processing of non-source-separated recyclables.

Goal 5TV: Support Washington’s organic management goal of reducing organic waste going to the landfill by 75% in eligible Business Organic Management Areas and eligible residential customers, through source reduction, composting, anaerobic digestion, or other means.

Policy 5T-1: The County’s goal is to reduce Whatcom County’s share of food waste sent to landfills by 50%, consistent with the Use Food Well Washington Plan, Whatcom County Food Systems Plan, Whatcom County Climate Action Plan, and Comprehensive Solid and Hazardous Waste Management Plan.

Policy 5T-2: Participate in state programs to conduct regular audits of food waste sources across the county, establish food waste reduction programs, and support stakeholders required to comply with Washington’s organic management law.

Policy 5T-3: Increase diversion from the landfill by providing financial incentives to programs that donate surplus food to food banks and food shelters.

Goal 5UW: **Make safe, effective, economical, and environmentally sound techniques for solid and hazardous waste disposal available using existing and future-new technologies.**

Policy 5UW-1: Support best management practices for disposal of household, commercial, and industrial solid and hazardous wastes.

Policy 5UW-2: Maintain and enforce standards for disposal of bio-solids, including management of the amount of heavy metals and other pollutants and management of impacts to sensitive areas.

Stormwater Management

Stormwater management is treated in *Chapter 10: Environment* and is not included in this Utilities Chapter.