

# GOAL 3: SUSTAINABLE ENERGY AND A CLEAN ENVIRONMENT

Building a legacy of resource stewardship for the next generation of Washingtonians

| GOAL TOPIC         | SUSTAINABLE AND CLEAN ENERGY<br><i>Reduce our greenhouse gas emissions</i>   |  |  | HEALTHY FISH AND WILDLIFE<br><i>Protect and restore Washington's wildlife</i>  |   |   | CLEAN AND RESTORED ENVIRONMENT<br><i>Keep our land, water and air clean</i>   |   |   | WORKING AND NATURAL LANDS<br><i>Use our lands responsibly</i>  |  |  |
|--------------------|--|--|--|--|---|---|---|---|---|--|--|--|
| SUB TOPIC          | CLEAN TRANSPORTATION   | CLEAN ELECTRICITY  | EFFICIENT BUILDINGS & INDUSTRIAL PROCESSES   | SHELLFISH  | PACIFIC SALMON  | WILDLIFE  | HEALTHY LANDS   | CLEAN, COOL WATER   | HEALTHY AIR   | FORESTS AND FARMLAND   | OUTDOOR RECREATION   | HABITAT PROTECTION   |
| OUTCOME MEASURE    | 1.1 Reduce transportation-related greenhouse gas emissions from 44.9 mmt/year (projected 2020) to 37.5 mmt/year (1990) by 2020   | 1.2 Reduce greenhouse gas emissions from electrical energy consumption from 18.4 mmt/year (projected 2020) to 16.9 mmt/year (1990) by 2020 | 1.3 Improve non-electrical energy efficiency of buildings and industrial processes to reduce greenhouse gas emissions from 21.7 mmt/year (projected 2020) to 18.6 mmt/year (1990) by 2020          | 2.1 Increase improved shellfish classification acreage in Puget Sound from net increase of 3,038 acres from 2007-13 to net increase of 8,614 acres by 2016                                     | 2.2 Increase the percentage of ESA-listed salmon and steelhead populations at healthy, sustainable levels from 16% to 25% by 2022 | 2.3 Increase the percentage of current state listed species recovering from 28% to 35% by 2020  | 3.1 Increase the number of contaminated sites cleaned up by 17% from 5,815 to 6,803 by 2020   | 3.2 Increase the percentage of rivers meeting good water quality from 43% to 55% by 2020                              | 3.3 Increase percent of population living where air quality meets federal standards from 92% to 100% by 2020    | 4.1 Increase the net statewide acreage dedicated to working farms from 7.237 million to 7.347 million by 2020, reduce loss of designated forests of long-term commercial significance from X to zero by 2020 (TBD) | 4.2 Increase participation in outdoor experiences on state public recreation lands and waters 1% each year from 2012 through 2016  | 4.3 Reduce the rate of loss of priority habitats from 1.5% to 1.0% by 2016   |
| LEADING INDICATORS | 1.1.a. Reduce the average emissions of greenhouse gases for each vehicle mile traveled in Washington by 25% from 1.15 lbs in 2010 to 0.85 pounds in 2020                             | 1.2.a. Increase electric load served by renewable energy from 3% to 9% by 2016 and 15% by 2020   | 1.3.a. Decrease non-electric fossil fuel consumption associated with residential and commercial end users from the 2010 three year average level of 165.9 trillion Btu to 140 trillion Btu in 2020 | 2.1.a. Increase percentage of inspections that are current for on-site sewage systems in marine recovery areas and other specially designated areas from 37% to 50% by 2016                    | 2.2.a. Demonstrate increasing trend in Puget Sound Chinook populations from one in 2010 to five by 2016                           | 2.3.a. Increase number of successful wolf breeding pairs from 5 to 15 by 2020   | 3.1.a. Increase number of contaminated brownfield sites returned to economically productive use from 476 to 641 by 2016   | 3.2.a. Increase the number of projects that provide stormwater treatment or infiltration from 10 to 34 by 2016        | 3.3.a. Decrease tons of toxic diesel soot air pollution emitted from mobile sources from 6,444 to 5,248 by 2016 | 4.1.a. Maintain current level of statewide acreage dedicated to working farms with no net loss through 2015  | 4.2.a. Increase day use visitation to public recreation lands by increasing the number of Discover Passes and daily permits sold by 1% per fiscal year from 730,000 to 760,000 passes and permits sold by 2016 | 4.3.a. Increase percentage of local jurisdictions that adopt priority habitats and species in local ordinances from 74% to 90% by 2016             |
|                    | 1.1.b. Increase the average miles traveled per gallon (MPG) of Washington's overall passenger and light duty truck fleet from 19.2 miles per gallon (MPG) in 2010 to 23 MPG in 2020. | 1.2.b. Increase electrical load growth replaced by conservation from 112.5 average megawatts as of 2010 to 155 average megawatts by 2020   | 1.3.b. Maintain non-electric fossil fuel consumption associated with industrial buildings and processes at or below the 2010 three year average level of 163.7 trillion Btu                        | 2.1.b. Increase number of implemented agricultural BMPs to improve water quality in shellfish growing areas in Puget Sound, Grays Harbor, and Pacific counties from 345 in 2008 to 750 by 2016 | 2.2.b. Increase miles of stream habitat opened from 350 to 450 by 2016  | 2.3.b. Increase the 5-year running average of statewide sage-grouse population from 1,000 to 1,100 by 2017  | 3.1.b. Increase completion percentage of the Hanford tank waste treatment plant from 63% to 86% by 2016   | 3.2.b. Increase percentage of core saltwater swimming beaches meeting water quality standards from 89% to 95% by 2016 | 3.3.b. Increase number of woodstoves replaced with cleaner burning technologies from 2,777 to 4,000 by 2016     | 4.1.b. Increase treatment of forested lands for forest health and fire reduction from X to X by 2016   | 4.2.b. Increase participation in State Parks environmental education and interpretive programs from 114,000 visitors to 160,000 visitors by 2016   | 4.3.b. Increase hydraulic project approval compliance rate from 80% to 90% by 2016   |
|                    | 1.1.c. Increase the number of plug-in electric vehicles registered in Washington from 8,000 in 2013 to 50,000 by 2020.   |  |  | 2.2.c. Increase number of fish passage barriers corrected per year from 375 to 500 by 2016   | 2.2.d. Increase percentage of hatcheries in compliance with brood-stock management standards from 61% to 80% by 2015              | 2.3.c. Increase number of pygmy rabbits reintroduced to the wild annually from 103 to an average of 200 in 2017                                     | 3.1.c. Reduce the average concentration of copper in brakes sold in the state from 7.27% to less than 0.5% by 2025, preventing the release of about 250,000 pounds of copper per year | 3.2.c. Increase number of CREP sites to improve water temperature and habitat from 1,021 to 1,171 by 2015             | 4.1.c. Reduce rate of loss of designated forests of long-term commercial significance from X to X by 2015       | 4.2.c. Increase the number of individual fishing and hunting licenses issued from 1.71 million to 1.78 million licenses by 2016  | 4.3.c. Reduce rate of conversion of marine and freshwater riparian habitat in Puget Sound from 0.13% to 0.10% by 2016 and provide mitigation to ensure maintenance of today's habitat functions                |  |
|                    |  |  |  | 2.3.d. Increase amount of occupied Mazama pocket gopher habitat in Thurston County managed for conservation from 1,496 acres to 1,646 acres by 2016  |   | 2.3.d. Increase amount of occupied Mazama pocket gopher habitat in Thurston County managed for conservation from 1,496 acres to 1,646 acres by 2016 |   |   |   |  | 4.2.d. Increase the number of individual fishing and hunting licenses issued from 1.71 million to 1.78 million licenses by 2016  | 4.3.d. Reduce annual rate of shrub steppe loss from 1.4% to 1% by 2016   |
|                    |  |  |  |  |   | 2.3.e. Increase number of directed southern resident killer whale vessel interaction enforcement patrols from 15 to 40 by June 2014                 |   |   |   |  |  | 4.3.e. Increase eelgrass beds in Puget Sound from 22,600 hectares to 23,730 hectares by 2016   |
|                    |  |  |  |  |   |   |   |   |   |  |  | 4.3.f. Increase the acreage of Puget Sound estuaries restored in the 16 major rivers from 2,260 acres between 2006 and 2012 to 5,028 acres by 2016 |

mmt: million metric tons

Btu: British thermal unit

BMPs: best management practices

CREP: Conservation Reserve Enhancement Program

Contributes to Puget Sound recovery

■ Data and metric will be available by April 2014  
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