Sustainable Energy and a Clean Environment

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

Reduce our greenhouse gas emissions

SUB TOPIC: CLEAN TRANSPORTATION

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

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
- 1.1.b. Increase the average miles 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.
- 1.1.c. Increase the number of plug-in electric vehicles registered in Washington from 8,000 in 2013 to 50,000 by 2020.

SUB TOPIC: CLEAN ELECTRICITY

OUTCOME MEASURE: 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

LEADING INDICATORS:

- 1.2.a. Increase electric load served by renewable energy from 3% to 9% by 2016 and 15% by 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

SUB TOPIC: EFFICIENT BUILDINGS & INDUSTRIAL PROCESSES

OUTCOME MEASURE: 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

LEADING INDICATORS:

- 1.3.a. Reduce 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
- 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

mmt: million metric tons

Btu: British thermal unit

HEALTHY FISH AND WILDLIFE

Protect and restore Washington's wildlife

SUB TOPIC: SHELLFISH

OUTCOME MEASURE: 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

LEADING INDICATORS:

- 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
- 2.1.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

SUB TOPIC: PACIFIC SALMON

OUTCOME MEASURE: 2.2 Increase the percentage of ESA-listed salmon and steelhead populations at healthy, sustainable levels from 19% to 25% by 2022

LEADING INDICATORS:

- 2.2.a. Demonstrate increasing trend in Puget Sound Chinook populations from one in 2010 to five by 2016
- 2.2.b. Increase miles of stream habitat opened from 350 to 450 by 2016
- 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

SUB TOPIC: WILDLIFE

OUTCOME MEASURE: 2.3 Increase the percentage of current state listed species recovering from 28% to 35% by 2020

LEADING INDICATORS:

- 2.3.a. Increase number of successful wolf breeding pairs from 5 to 15 by 2020
- 2.3.b. Increase the 5-year running average of statewide sage-grouse population from 1,000 to 1,100 by 2017
- 2.3.c. Increase number of pygmy rabbits reintroduced to the wild annually from 103 to 200 in 2017
- 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.e. Increase number of directed southern resident killer whale vessel interaction enforcement patrols from 15 to 40 by June 2014

CLEAN AND RESTORED ENVIRONMENT

Keep our land, water and air clean

SUB TOPIC: HEALTHY LANDS

OUTCOME MEASURE: 3.1 Increase the number of contaminated sites cleaned up by 17% from 5,815 to 6,803 by 2020

LEADING INDICATORS:

- 3.1.a. Increase number of contaminated brownfield sites returned to economically productive use from 476 to 641 by 2016
- 3.1.b. Increase completion percentage of the Hanford tank waste treatment plant from 63% to 86% by 2016
- 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

SUB TOPIC: CLEAN, COOL WATER

OUTCOME MEASURE: 3.2 Increase the percentage of rivers meeting good water quality from 43% to 55% by 2020

LEADING INDICATORS:

- 3.2.a. Increase the number of projects that provide stormwater treatment or infiltration from 10 to 34 by 2016
- 3.2.b. Increase percentage of core saltwater swimming beaches meeting water quality standards from 89% to 95% by 2016
- 3.2.c. Increase number of CREP sites to improve water temperature and habitat from 1,021 to 1,171 by 2015

CREP: Conservation Reserve Enhancement Program

SUB TOPIC: HEALTHY AIR

OUTCOME MEASURE: 3.3 Increase percent of population living where air quality meets federal standards from 92% to 100% by 2020

LEADING INDICATORS:

- 3.3.a. Decrease tons of toxic diesel soot air pollution emitted from mobile sources from 6,444 to 5,248 by 2016
- 3.3.b. Increase number of woodstoves replaced with cleaner burning technologies from 2,777 to 4,000 by 2016

WORKING AND NATURAL LANDS

Use our lands responsibly

SUB TOPIC: FARMLAND

OUTCOME MEASURE: 4.1 Increase the net statewide acreage dedicated to working farms from 7.237 million to 7.347 million by 2020,

LEADING INDICATORS:

- 4.1.a. Maintain current level of statewide acreage dedicated to working farms with no net loss through 2015

SUB TOPIC: FORESTS

OUTCOME MEASURE: 4.2 Reduce loss of designated forests of long-term commercial significance from X to zero by 2020 *(TBD)*

LEADING INDICATORS:

- 4.2.a. Increase treatment of forested lands for forest health and fire reduction from X to X by 2016
- 4.2.b. Reduce rate of loss of designated forests of long-term commercial significance from X to X by 2015

SUB TOPIC: OUTDOOR RECREATION

OUTCOME MEASURE: 4.3 Increase participation in outdoor experiences on state public recreation lands and waters 1% each year from 2012 through 2016

LEADING INDICATORS:

- 4.3.a.Increase access 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.b. Increase participation in State Parks environmental education and interpretive programs from 114,000 visitors to 160,000 visitors by 2016
- 4.3.c. Increase the number of individual fishing and hunting licenses issued from 900,000 to 936,000 licenses by 2016

SUB TOPIC: HABITAT PROTECTION

OUTCOME MEASURE: 4.4 Reduce the rate of loss of priority habitats from 1.5% to 1.0% by 2016

LEADING INDICATORS:

- 4.4.a. Increase percentage of local jurisdictions that adopt priority habitats and species in local ordinances from 74% to 90% by 2016
- 4.4.b. Increase hydraulic project approval compliance rate from 80% to 90% by 2016
- 4.4.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
- 4.4.d. Reduce annual rate of shrub steppe loss from 1.4% to 1% by 2016
- 4.4.e. Increase eelgrass beds in Puget Sound from 22,600 hectares to 23,730 hectares by 2016
- 4.4.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

Contributes to Puget Sound recovery

Data and metric will be available by October 2014

UPDATED

08/18/14