

State of Washington Climate Change Adaptation Activities

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Climate Change in Washington



*Climate Change
in Washington
State...*

*meeting the challenge
and seizing opportunities*

Sea Level Rise Estimates

SLR Estimate	Components	2050			2100		
		<u>NW Olympic Peninsula</u>	<u>Central & Southern Coast</u>	<u>Puget Sound</u>	<u>NW Olympic Peninsula</u>	<u>Central & Southern Coast</u>	<u>Puget Sound</u>
Very Low	Global SLR	9 cm			18 cm		
	Atm. Dynamics	-1 cm			-2 cm		
	VLM	-20 cm	-5 cm	0 cm	-40 cm	-10 cm	0 cm
	Total	-12 cm (-5")	3 cm (1")	8 cm (3")	-24 cm (-9")	6 cm (2")	16 cm (6")
Medium	Global SLR	15 cm			34 cm		
	Atm. Dynamics	0 cm			0 cm		
	VLM	-15 cm	-2.5 cm	0 cm	-30 cm	-5 cm	0 cm
	Total	0 cm (0")	12.5 cm (5")	15 cm (6")	4 cm (2")	29 cm (11")	34 cm (13")
Very High	Global SLR	38 cm			93 cm		
	Atm. Dynamics	7 cm			15 cm		
	VLM	-10 cm	0 cm	10 cm	-20 cm	0 cm	20 cm
	Total	35 cm (14")	45 cm (18")	55 cm (22")	88 cm (35")	108 cm (43")	128 cm (50")

Source: *Sea Level Rise in the Coastal Waters of Washington State*. Climate Impacts Group, January 2008

Permit Applicant Requirements

- Statewide: none
- Locally: Shoreline Master Programs could build in requirements, none have yet done so.

SLR/GHG in the Environmental Review Process

- Ecology staff are working to clarify State Environmental Policy Act (SEPA) rules as part of the Climate Action Team
- GHG Reporting Rulemaking from Ecology's Air Quality Program
- Cap and Trade program legislation proposed

Recent Studies

Leading the Way

Implementing Practical Solutions to the
Climate Change Challenge

November 2008



CTED | Community, Trade and
Economic Development

Growing Washington's Economy in a Carbon-Constrained World

*A Comprehensive Plan to Address the Challenges
and Opportunities of Climate Change*

December 2008
Publication no. 08-01-025

Current Research

An aerial photograph showing a large body of water, likely a bay or estuary, with a complex network of channels and marshes. The surrounding land is a mix of green vegetation and brownish, possibly agricultural or developed areas. The sky is clear and blue.

The Washington Climate Change Impacts Assessment Conference

Evaluating Washington's Future in a Changing Climate

February 12, 2009

Washington State Convention Center