

# **Policies to Projects: How to Finance Your Community's Switch to Clean Energy**

**January 24, 2009**

**The Evergreen State College**

## **Agenda**

**8:30am to 9:00am:** Registration

**9:00am to 9:30am:** Introductions & Welcome Remarks (Evergreen's Director of Operational Budget and Planning, Steve Trotter)

**9:30am to 10:30am:** Keynote Speaker – John MacLean

**John MacLean** is an investment banker specializing in project finance and municipal finance for energy and environmental projects. Mr. MacLean has 24 years commercial finance experience, working as an independent financial advisor since 1989. His clients have included commercial and development financial institutions, energy services companies, utilities, public agencies and state and local governments on project development, procurement and finance assignments. During the last twelve years, he has worked with international development agencies to develop clean energy programs in developing countries.

Currently, John's company, Energy Efficiency Finance Corp., is completing a project for the Department of Community, Trade and Economic Development (CTED). The project's goals are to recommend appropriate clean energy finance program models for Washington State & Local Governments and to identify how the State government can best support and facilitate local governments to undertake these programs.

Mr. MacLean will provide an over view of energy efficiency and small scale renewable finance options as they relate to Washington state and our local communities.

**10:30am to 10:45am:** Break

**10:45am to 11:45am:** Breakout Sessions.

Participants will use this time to evaluate the finance models against the needs of local governments and utilities. You will also generate ideas on appropriate roles for how state government can best support local governments and utilities in implementing these models. Finally, participants will discuss the next steps for their own organizations.

**11:45pm to 12:30pm:** Reconvene – Small Groups Report Back – Closing Comments

### **Sponsors**

The Evergreen State College, The Department of Community, Trade & Economic Development, Energy Efficiency Finance Corp., Thurston Climate Action Team, Thurston County Progressive Network

**Policies to Projects Website:** <http://www.evergreen.edu/sustainability/policiestoprojects>

## **Climate Change & Effects on Puget Sound**

### **Expected Effects to Food Web, Habitat, Dead Zones Are Serious**

Global warming modeling published by the University of Washington's Climate Impacts Group in two reports commissioned by King County and the Puget Sound Action Team found that the Pacific Northwest warmed up faster (2.3 degrees) than elsewhere on the planet (1.1 degrees Fahrenheit) during the 20th century.

By 2050, average annual temperatures for the Pacific Northwest could be up to 5 degrees higher than they were during the last 30 years of the 20th century.

#### **Predicted effects**

1. Wetter winters with more intense rainfall. Drier summers. Earlier spring snowmelt.
2. Significant retraction of the snowline in our mountains due to warmer winters - reducing our water "warehouse."
3. Rise in sea level by as much as 3.3 feet in the South Sound and 1 foot at Neah Bay by 2100
4. Increased acidification of ocean water will slow or impair growth of shells.
5. Earlier onset of spring (already 2 weeks early in parts of the Puget Sound region).

#### **Expected Impacts**

1. Inundation and shift of habitat types in existing salt marshes, mud flats, and beaches
2. Change in salinity, stratification, nutrient cycling and ocean productivity affecting the Puget Sound food web and expand dead zones
3. Lack of summer creek/river flows to maintain salmon runs in some watersheds, severe reductions in others
4. Disruption to species when spring conditions trigger earlier hatching and migration or warm winter temperatures cease to trigger hibernation
5. Increase in pests and diseases which affect crops, shellfish and forests
6. Intensified stormwater problems: more flooding, erosion, and combined sewer overflows
7. Favorable conditions for invasive species
8. Negative economic affects on agriculture, fisheries, forestry, tourism, and hydropower

**Source: People for Puget Sound**

<http://www.pugetsound.org/pressroom/issues/climate-change-1/climate-change>