



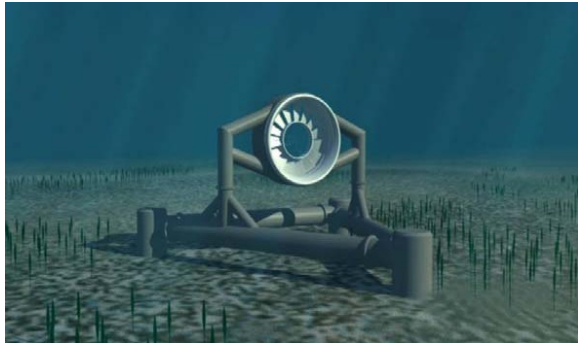
# Alternative Sources of Energy: Here and in the Great Beyond

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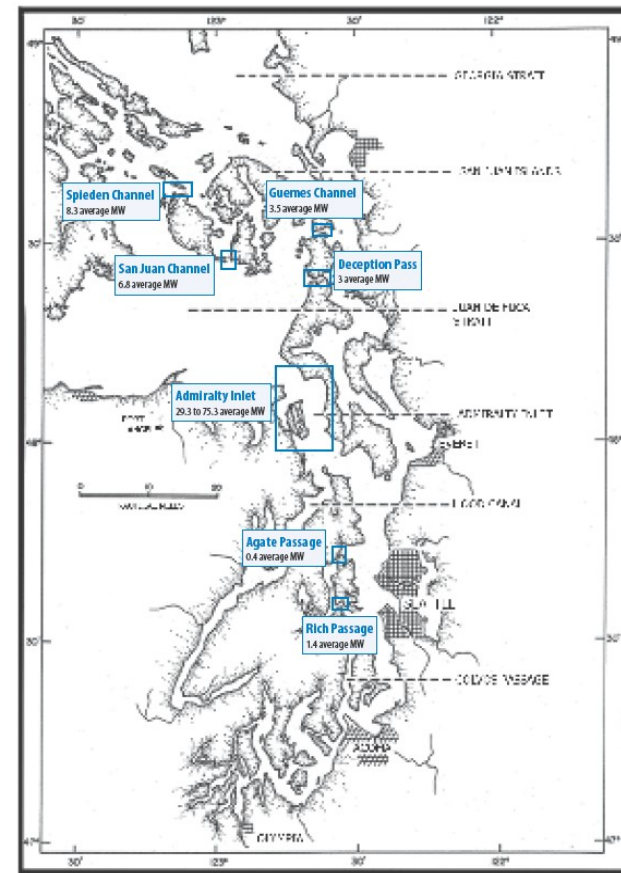
# Why Renewables?

- The PUD is committed to meeting future demand needs through cost-effective conservation and renewable generation sources
  - About 90% of our power currently comes from “green” sources.
- I-937 mandate requires all large utilities in WA to source 15% of their energy from eligible renewable resources by 2020.
- Promote local/regional economy
- Builds upon past energy efficiency and renewable efforts
- It is the right thing to do: economic and environmental stewardship

# Tidal Power



- The PUD has a pilot project in Admiralty Inlet to install up to 3 turbines
- Operation may begin as early as 2011 and could provide as much as 1 MW of energy – or enough power for about 700 homes.



# Geothermal Power

- PUD is moving forward with a detailed resource evaluation of geothermal generation
- Geothermal has the potential to be generated locally and carries minimal environmental impacts
- Viable sites could generate electricity at 7 to 10 cents per kilowatt-hour, plus transmission costs

Geothermal  
POWER



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# Low-Impact/Small Hydro

- Three existing sites
  - Woods Creek
  - Packwood
  - Youngs Creek
- Other potential sites under study
- “Run of the River” designs



# Generation Mix

- Recent addition of wind contracts
- Break out of 2009 power mix
  - 10% green energy
  - 80% BPA
  - 10% open energy market



# Why Solar?

- Make Snohomish County a renewable energy leader
- Promote solar as an energy resource
- Educate the community about the benefits of solar technologies
- Benefits to the environment and preservation of natural resources
- Builds upon PUD commitment to renewable energy sources
- High level of interest and success in a short amount of time



# Program Summary

- Photovoltaics (PV) and solar hot water (SHW)
- Residential, Commercial, and Industrial customers eligible
- Cash incentives or residential loan option



# Cash Incentives for Photovoltaics

- Available to residential, commercial, industrial and public customers
- **Existing and new** construction buildings
- Cash incentive of **\$500/kW**
- Limit of \$2.5k residential, \$10k commercial (currently)



# Cash Incentives for Solar Hot Water

- Available to residential, commercial, industrial and public customers with **existing electric hot water systems**
- Cash Incentive of **\$500/ system**
- No limit on number of systems



**SOLAR**  
**EXPRESS**  
clean → renewable → bright

# Program Requirements

- 75% or more solar access
- Must use a Registered Installer
- UL listed or SRCC OG 100 Equipment
- Warranty requirements
- Pre -approval
- Solar hot water system must have electrical water heat



# Financial Benefits

- **PUD:**
  - Incentives on solar hot water and PV
  - Net metering: Allows customers to hook up to the power grid and spin meter backwards, up to annual usage
- **State:**
  - Production incentive
    - AC production- .15/kWh For non-WA equipment up to \$5,000
  - Sales tax exemption/refund
    - 100% Sales tax exemption/refund for solar PV expires 6/30/11, then at 75% until 6/30/13
- **Federal :**
  - Refer to IRS or accountant for federal tax credit information (30% tax credit)



# PUD Project

## PUD Demonstration Project:

- Located on the “Training Center” section of the electric bldg.
- 10kW PV system
  - 2 kW on the south wall of building (visible to PUD lot & Hewitt Av.)
  - 8 kW on the roof
- Kiosk with live data in the lobby area, plus on [www.snopud.com](http://www.snopud.com)
- PV system and kiosk installation by 7/09



# Planet Power

- Program offers customers a voluntary option to fund local small-scale renewable projects through grants issued by PUD
- Open to all PUD customers
- Additional cost to normal electricity charges
- Community Transit Project Completed (2/09)
- Recently announced 5 projects selected through an RFP
  - Cedar Wood Elementary School (*Mill Creek*)
  - Snohomish High School
  - Stanwood High School
  - Snoqualmie Gourmet Ice Cream (*Maltby*) (6/
  - Mukilteo City Hall



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# More Information...

## Energy Hotline

425-783-1700 or 1-877-783-1000 ext. 1700  
Monday through Friday, 8am – 5pm

[www.snopud.com](http://www.snopud.com)

