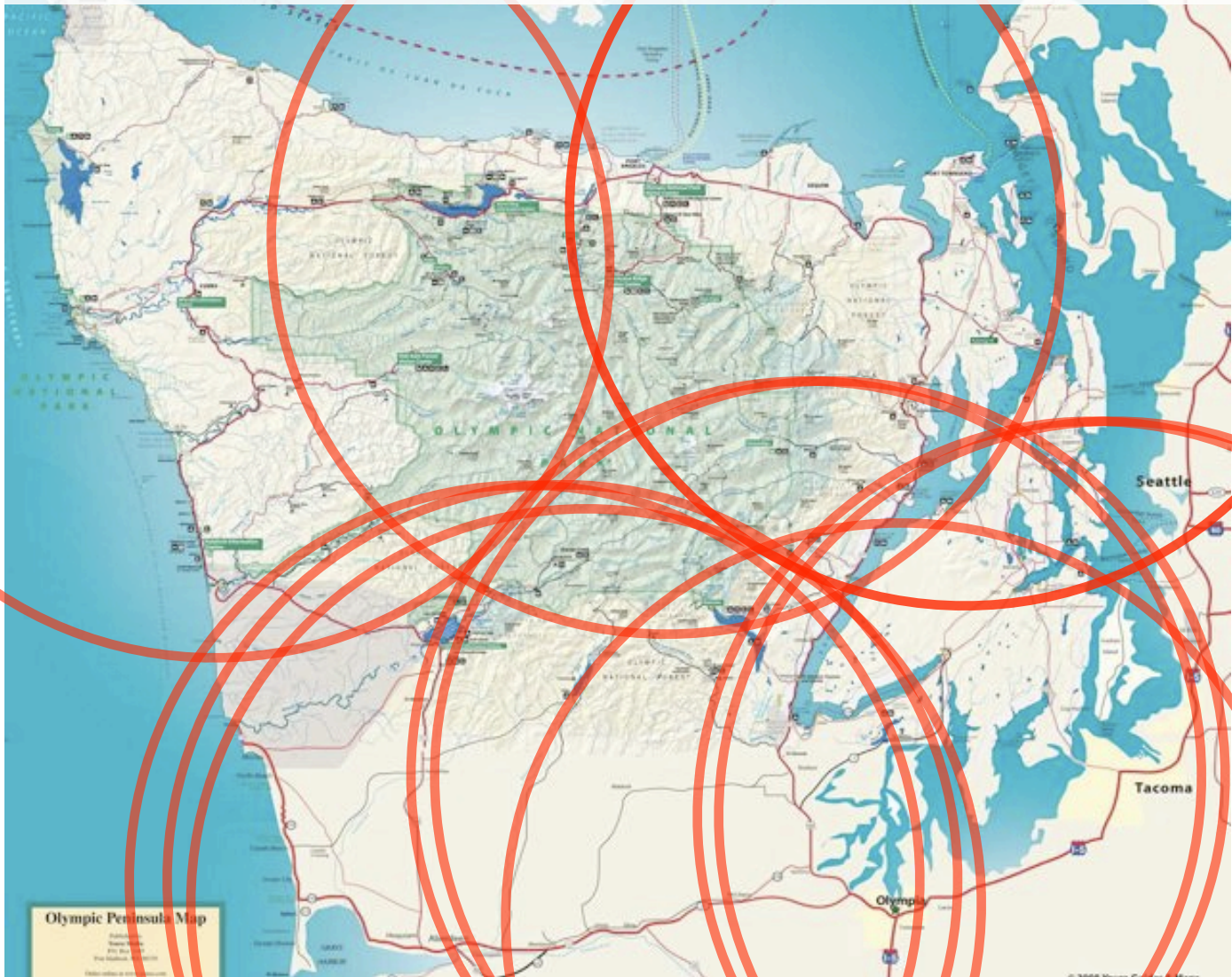


# Biomass Burning a first estimate map Competition for Forest Resources



**Olympic Peninsula, WA, USA ESTIMATED TOTAL  
275MW = 2,750,000 Tons forest wood/yr. = 2,750,000 Tons CO<sub>2</sub>/yr  
PLUS proportional loss in Oxygen-generating capacity of our forests**

**Red circles represent 50 mile maximum "cost effective" harvest radius around all existing and proposed biomass incinerators / burners (ao Sept 2010) around the Olympic Peninsula, WA, USA.**

**After quickly using up "waste" wood within circle, facilities forage for other sources -- outside the area, standing wood, other materials including construction & demolition debris ("urban wood") or sludge.**

**On map: PT Holdings/Port Townsend, Nippon/Port Angeles, Quilayute School/Forks, Sierra Pacific/Aberdeen, Gores Group/Cosmopolis, Grays Harbor/Hoquiam, Evergreen College/Olympia, Simpson/Shelton, Adage/Shelton, City of Tacoma/Tacoma, Simpson/Tacoma**

**At least 3 existing facilities already forage outside of their circle.  
At least 26 similar burners exist or are proposed for WA State.**

**ESTIMATED TOTAL**

**275MW = 2,750,000 Tons of forest wood/yr. = 2,750,000 Ton of CO2/yr**

**PLUS proportional loss in Oxygen-generating capacity of our forests**

Woody biomass burners\* represented on the first page are:

Port Townsend	PT Holdings/Port Townsend Paper	28.5 or 36 MW	8x expansion from 3.5 MW
Port Angeles	Nippon Paper	20MW	expansion
Forks	Quilayute School	?	under construction
Aberdeen	Sierra Pacific Sawmill	18MW	existing
Cosmopolis	Gores Group/Smurfit	14MW	newly repurchased, to be restarted
Hoquiam	Grays Harbor Paper	18.5MW	existing
Olympia	Evergreen College	?	feasibility study
Shelton	Simpson	31	expand from 14 MW
Shelton	Adage	60	proposed
Tacoma	Simpson	55	existing
Tacoma	City of Tacoma Steam Plant	50/13MW	existing

Megawatts are estimates based on figures found to date. If anything, they are low. Figures are variously nominal for a given burner, nominal total for the facility, or gross (total).

\*biomass burners are variously known as co-generators, burners or incinerators. Each term carries particular regulatory implications, but they all do the same thing: burn biomass. They operate the same, and have the same effect on the substances being burned and environment.

Updates may be available as we get more accurate information.

**Information As of September 30, 2010**