

By the numbers.

33,000

Washington State's projected 2020 power needs, in megawatts.

18,000

Number of 5 MW turbines needed to supply all of Washington's power needs by 2020.

30%

Average capacity factor (amount of time the wind is blowing) in the areas where turbines are proposed.

1%

Washington's average growth in power consumption per year to 2020

400

Average power in watts per square meter in the regions selected to build turbines.

12

Number of 5 MW turbines that fit in a square mile.

1,500

Amount of land (in square miles) to be used for wind farms.

THE PLAN

TIMELINE:

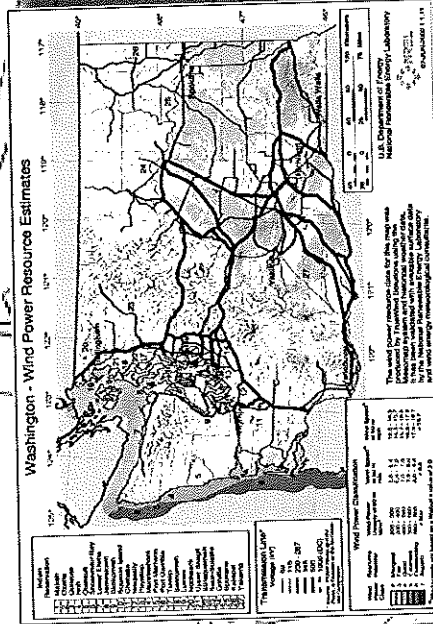
One factory in Iowa produces 400 turbines per year. Washington will stimulate turbine factory growth in our own state by increasing demand and we will import from other plants. With 5 plants supplying turbines to Washington we will have 2,000 turbines per year to meet our 2020 goal.

Capital Costs	\$92 billion
Levelized Costs	@ 6.3 cents/KWH and 8% interest
Mean price per KW of a turbine	TOTAL COST PAID BACK IN 5 YRS
Job creation	Down 20% from 2008 to 2009 13,000 workers for 9 years + 800 permanent jobs

THINKING BEYOND 2020 - SMALL WIND TURBINES

Washington is the 7th most energy efficient state in the nation, this along with increased efficiency standards means the 1% annual increase in consumption will probably flatten by 2020.

Installation of each wind turbine is approximately \$40,000, and will pay for themselves in 15 years. Washington will give suburban and rural residents low interest, 20 year, \$40,000 loans to build small wind.



Map of existing transmission lines with areas of highest wind potential in dark.