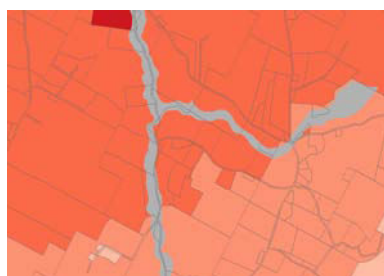




# Central Vermont Regional Plan

# 2008

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survey respondents say they would support the technology, even if turbines were visible from their homes.

Currently, Vermont produces only 6MW of power (enough for about 2000 homes) by way of commercial wind power at an 11 turbine "farm" in Searsburg. However, over a dozen proposals which could supply as much as 500MW have been approved or proposed throughout the State. While none of these sites are in the Central Vermont Region, this does not suggest that we do not possess viable sites.

Finally, it should be noted that advances in small scale wind turbine technology figure to make them an increasingly viable option for private individuals or groups of individuals. State law restricts the regulation through zoning of turbines with blades less than 20-feet in diameter. Furthermore, any small scale turbine that returns energy to the power grid is exempt from local bylaws and is instead reviewed by the Public Service Board under Act 248.

### **Solar-power**

Solar energy has tremendous potential for providing clean, reliable and safe energy, even in Vermont's climate. The application of both active (systems which collect, store and distribute solar energy within a building) and passive (systems which utilize a building's structure to trap sunlight and store it as heat) solar technologies have demonstrated their cost effectiveness in Vermont.

Solar-tempered buildings are buildings that have their long axis oriented within 30 degrees of true south and have an unobstructed net south facing window area equal to at least 7% of the total floor area. Solar-tempering coupled with proper insulating can offset heat costs in a building by 40%. Although solar-tempering at initial construction generally requires no additional investment, experts suggest that a majority of new buildings in Vermont do not incorporate such design principles.

Contemporary solar technologies have proven their value in Vermont, particularly in rural areas. As the technologies improve and costs decrease, solar thermal collectors and photovoltaics (technologies which can convert sunlight to electricity) will become more competitive in the marketplace even in less remote areas. As the power source of solar technologies is inexhaustible, and solar energy neither contributes pollutants to the atmosphere nor to our reliance on foreign energy suppliers, strategies should be developed to encourage its use.

### **Natural Gas**

At present, there are no natural gas transmission lines in Central Vermont. How-