

**PLEASE NOTE NEXT MEETING WILL BE THURSDAY AUG. 9 AT  
9:30 IN THE MORNING IN THE SACO CITY HALL  
SACO ENERGY COMMITTEE  
MINUTES OF JULY 23, 2007**

Committee Members Present: Mark Johnston (Mayor, City of Saco); David Tripp (Saco City Councilor); Rick Michaud (Saco City Administrator); Howard Carter (Waste Water Treatment Plant Director); Travis Peaslee (Lab. Technician Treatment Plant); Eric Cote (Saco City Councilor).

Guests: Daniela Moebius (Lassel Architects); Charles Newcomb (Entegri Wind Systems).

**1. DISCUSSION WITH CHARLES NEWCOMB OF ENTEGRITY WIND  
CONCERNING SACO'S PURCHASE OF E15 WIND TURBINES**

See Charles' card below:



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Charles has worked for Entegri Wind Systems for 2 years managing the development of distributed wind energy projects throughout the U.S.. He is headquartered in Boulder, Colorado. Prior to working for Entegri, Charles worked for 10 years for the United States Department of Energy. Entegri Winds Systems is a small Canadian Co. located in Prince Edward Island, where the turbines are manufactured. The company makes only one turbine- the 50 kW E15. The E15 was developed working with the United States Department of Energy.

Charles stated that the first step for any school, municipality, or business, is increasing the efficient use of energy. The second step is on-site renewable energy generation using wind, geothermal, and solar.

The E15 has a 30 year life expectancy, and uses a 100 foot tower. The tower can be either lattice work or tubular. A discussion took place on the benefits of both towers. Charles said the monopole is quieter, but is more visible, and requires more maintenance.

Rick and Howard expressed a preference for a monopole. David favored a lattice work tower.

The foundation for the tower is 9 feet deep, or bedrock, whichever is less. If the site cannot be dug into, a 20 square of concrete 6 feet deep can be used. This adds \$9,000 to the cost.

Entegritiy wind does the maintenance for \$1,000 per year, and provides a 5 year warranty. The company also guarantees for 5 years the turbine will generate 100,000 kWh per year. If the turbine does not produce this amount, the company will refund to Saco the kWh shortage times the then current rate. The guarantee extends to 10 years, but for years 6-10, any shortfall is averaged out against a year in which over 100,000 kWh is produced.

Charles believes the Saco Island site by the current train platform, is a good site for a turbine, and further wind measurements are not necessary.

Charles calculates that the project is a 10 year payback for Saco counting the cost of purchase, installation, yearly maintenance, and guarantee. This projection was made based on electricity costing 14.1 cents per kWh, and increasing 5% per year.

Discussion took place on Entegritiy's potential offer for Saco to purchase one turbine now, and Entegritiy holding the price for two more turbines to be purchased next year, if the first turbine project is a success.

Following are portions of Charles' slide presentation. A similar presentation will be made to the Saco City Council on August 20 at 7 in the evening. All are invited to attend.

## **2. AGENDA FOR NEXT MEETING ON AUG. 9 AT 9:30 IN THE MORNING**

1. Report from Howard and Travis on Treatment Plant projects
2. Discussion on purchase of E15 wind turbines
3. Travis' report on LED lightbulbs
4. Discussion of other projects