

Marshfield Energy and Climate Change Committee

December 13, 2010 6:32 pm

Attending: Dan Chodorkoff, Anne Miller, Ed Hutchinson, Bob Atchinson, Rich Phillips, Joel Trupin, Lawrence Black, John Morris

Town Plan: Dan distributed a rough draft of the energy section of the new town plan for the planning commission. Members will take it home and be prepared to add input at our January meeting.

Geothermal discussion: Bob wants to attend a workshop on geothermal.

Town Energy Savings: Our committee worked on the Old Schoolhouse Common building and the bus route. The fire station and the town garage have also recently seen energy efficiency updates. We visited 49 Marshfield homes and offered suggestions on what improvements could be made.

The town will be saving about \$700 a year as a result of changing the lights to T8 bulbs and 1,600 gallons of fuel as a result of the insulation and air sealing of the OSC. We are also working on replacing one of the OSC's oil-fired boilers with a pellet boiler. It will probably cost around \$30,000 and save \$15,000 over the next ten years.

We will bring these savings numbers to the town meeting in March.

Town Solar Power: Dave Palumbo is working on an estimate for the solar panels for the OSC roof. He expects to be able to put about 5 KW of panels up there because some of the space is taken up by vent stacks and the chimney. There may also be room for a few more 5-KW pole-mounted systems to the south of the OSC, up the hill from the flood zone. Dave will work up the cost of one and two systems there.

Twinfield: We need to return to the Twinfield energy plan, both conservation and generation as well as the educational component. There is a document worked up by Norm Etkind from the state superintendents' association listing areas where energy could be saved. Has any work been done in those areas?

What would a full audit cost? Rich thinks it would be in excess of \$10,000 because a detailed assessment of where the heat is being lost will be greatly complicated by the very complex air-handling system. There are seven different sections, each bringing in makeup air, mixing it will stale air taken from the rooms, and reheating it. That system may be 40 years old, so it may be ripe for replacement. On the other hand, it has been gradually updated with more controls and the individual components are fairly easily replaced.

Additionally, there is almost no air sealing in the building. Above the hung ceiling are six-inch batts between the joists and another six inches of insulation rolled out in the other direction.

Rich will talk to Patrick Healey about a meeting with the school board's facilities committee.

Agenda:

- Approve December's Minutes
- Marshfield Town Plan
- Twinfield Plans

Meeting adjourned at 7:40 pm.