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MAINE COAST WINDS

**Quarterly Technical Progress Report
for the period January – March 2000**

**Harley C. Lee
and Michael Boice**

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Endless Energy Corporation

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Summary

The Maine Coast Wind Project is intended to verify the performance of the AOC 15/50 turbine under coastal conditions. A secondary goal is to create a model for commercially competitive wind power installations at small, distributed sites. To date, the first of two installations is progressing very well, with sites for the second installation being reviewed.

Allen Blueberry site

The first site, the G.M. Allen & Sons blueberry processing plant in Orland, Maine, is well suited to the installation of a moderate-sized turbine. A location approximately 150 feet from the plant building has been excavated for the foundation. A map of the area is included as Exhibit A. The site is highly visible from busy US Route 1 and adjacent to a busy state road as well. The turbine will be seen by large numbers of residents and visitors. As was described in the previous Quarterly Technical Report, a permit for construction was submitted to the Town of Orland in January 2000. It was approved and issued February 7, 2000. A copy of the permit is attached as Exhibit B.

Several requests for bids for concrete work have been issued, with one having been returned to date. Additional bids for use of a crane for tower erection and turbine installation will be requested shortly. Requirements for a windsmith are being drafted, and a job posting will be issued in May. EEC plans to have the position filled in time to allow the windsmith to participate in the installation of the turbine.

After a lengthy negotiation, the final purchase and sale agreement was completed in late March, with the turbine being ordered shortly thereafter. A press release will be issued shortly announcing the project. The blades are due to arrive from Scotland in early May 2000, followed by the tower and control boxes the week of June 5th. The drive train is expected the week of July 3rd, 2000. Experienced, local help will most likely be used in assembling the tower, with AOC technicians present to erect the tower and install the generator and blades by the second week of July.

Discussions between AOC and Central Maine Power (CMP) engineers are underway to ensure all safety and regulatory interconnection issues are properly addressed. A meeting between CMP representatives, Phil Allen of G. M. Allen & Sons, the selected electrical contractor and Endless Energy was held March 24th at the site. Site requirements, transformer issues and physical connection topics were discussed.

Additional Sites

Discussions with landowners and officials at other potential locations have been progressing, with the number of possible sites now at two. The new elementary and junior high school on Deer Isle is being considered, but the primary emphasis has been placed on Monhegan Island.

Monhegan is a small island off the coast of Rockland, Maine, and is completely dependent upon its own small "utility." There are approximately 50 year-round homes, but swells to roughly 300 occupied homes in the summer months. The majority of the summer residents are affluent, with the potential for carrying a favorable impact of wind power back to their home states throughout the East Coast.

The Monhegan Plantation Power District is in the process of constructing a new diesel generation plant, to later be supplemented by photovoltaics. The new generation system was specifically designed to allow easy connection with renewables. A good site is available for a turbine, and the wind resource is estimated to be extremely good. EEC is currently reviewing options for installing a resource assessment program on the island.

Due to the remoteness of the community, the residents are faced with high electric rates. A 50 kW wind turbine would make an excellent supplement to the island's generation mix, as well as adding a valuable third generating source. The Power District has invited EEC to make a presentation to them regarding wind power in general, and the island's possibilities in particular, on May 12. A public presentation will follow later the same day. Contact has been made with residents of the island favorable to the concept of wind power.

Michael Boice
Project Development Associate

PERMIT

TOWN OF ORLAND, MAINE

ISSUED TO:

Endless Energy Corporation

FOR THE FOLLOWING USES:

To build one wind turbine on map #2, lot #16
in Orland.

THE FOLLOWING CONDITIONS AND SAFEGUARDS ARE PRESCRIBED AS
AUTHORIZED IN SECTION ^{as} noted OF THE ORDINANCE. ANY VIOLATION OF
THESE CONDITIONS SHALL BE A VIOLATION OF THE ORDINANCE.

#1 Any change in the proposed or permitted development activities will
require a new permit or an amendment to this permit.

DATE: 2/7/00

CODE ENFORCEMENT OFFICER: _____

PLANNING BOARD:

Melissa A. O'Brien
Kristin Cook
Bob Berry
David B. Burt
Terry Harrison

I/We understand and accept the conditions set forth in this permit.

Rich D. O'Brien
Owner

2/7/2000
Date

Owner

Date