To: Chair and Members  
Public Works, Infrastructure & Environment Committee  
Outstanding Business Item No. CC and Issue: Staff to report back on developing a small wind turbine pilot program proposal

From: Scott Stewart, C.E.T.  
General Manager  
Public Works Department  
Telephone: 905 546-2313  
Facsimile: 905 546-4481  
E-mail: sstewart@hamilton.ca  
Date: October 4, 2006

Re: Cleanfield Energy Corporation Update  
Small Wind Turbine Pilot Program Proposal to the City of Hamilton  
(City Wide) - (PW06093a)

Council Direction:
Staff was directed to report back on developing a small wind turbine pilot program proposal.

Information:
At the City’s August 9, 2006 Committee of the Whole meeting, City Council approved the following recommendations:

(a) That Council authorize the General Manager of Public Works or his designate to continue to work with Cleanfield on developing the Small Wind Turbine Pilot Program.

(b) That prior to signing agreements with Cleanfield, staff will bring a future report back to Council with details.

(c) That Councillors McHattie and Whitehead work with staff to expedite the report coming back to Council.

(d) That a Letter of Intent advising Council’s desire to move forward with this initiative be provided to Cleanfield Energy Corporation.

As per Council’s direction, on August 28, 2006, the City provided Cleanfield Energy Corporation (Cleanfield) with a Letter of Intent advising of Council’s desire to move forward with this initiative. This letter will be used by Cleanfield as part of their application process for securing federal government funding assistance for the project. Cleanfield are in the process of engaging an external consultant to assist them in securing this federal funding. As of September 20, 2006, Cleanfield is now publicly traded on the TSX (AIR). Cleanfield informed staff that they have also recently completed a private placement of approximately $3 million.

Cleanfield has recently increased their small vertical axis wind turbine (VAWT) capacity rating from 2.5 kilowatts (kW) per unit to 3.5 kW per unit.
Staff continues to conduct our due diligence with the project. Staff and Cleanfield are investigating the feasibility of installing a test unit on one of the City's buildings as soon as possible for monitoring and verification purposes. Cleanfield has also committed to share the test data gathered from the McMaster University pilot. In the coming months staff will be working with Cleanfield to identify potential sites for the VAWT units and the long term viability of the Cleanfield proposal.

We will continue to keep members of Council informed on this initiative. If you have any questions, please contact Mr. Geoff Lupton, Manager of Energy Initiatives at 905-546-2424, Extension 7372.

Scott Stewart, C.E.T.
General Manager
Public Works Department