



Department of Energy
Washington, DC 20585



April 23, 2010

Mr. Peter Swett
Appollo Wind Technologies, LLC
9 Camp St. Unit 400
Cambridge, MA 02140

VIA EMAIL (pswett@gmail.com)

RE: ARPA-E Control Number 0289-1563 - Notification to Encourage Submission of Full Application

Dear Peter Swett:

Thank you for submitting a Concept Paper in response to Advanced Research Projects Agency-Energy (ARPA-E) Funding Opportunity Announcement DE-FOA-0000289. We have completed our evaluation of your Concept Paper, and strongly **encourage** you to submit a Full Application based on the project presented in your Concept Paper.

If you would like to submit a Full Application, please refer to the Funding Opportunity Announcement (<http://arpa-e-foa.energy.gov>, under "Funding Opportunities"). The Funding Opportunity Announcement sets forth the requirements for Full Applications, the criteria for the evaluation of Full Applications, and instructions for the submission of Full Applications. The deadline for submission of Full Applications is 5 PM Eastern Time on Monday, May 24, 2010.

All Full Applications must be submitted via the ARPA-E eXCHANGE (<http://arpa-e-foa.energy.gov>, under "Funding Opportunities"). For questions relating to the FOA or the ARPA-E eXCHANGE, please contact us at ARPA-E-CO@hq.doe.gov.

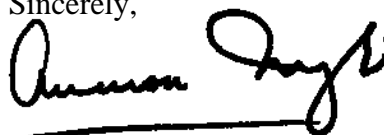
Your Concept Paper was evaluated by a team of subject matter reviewers. Their comments were considered by ARPA-E in evaluating your Concept Paper. For your consideration, we have provided the reviewers' comments on your Concept Paper below.

The authors are encouraged to provide a detailed substantiation to that the claims made can be met based on the extensive work that has already been conducted in this area. In particular, the proposer is encouraged to show how the target COP of 6 will be achieved, especially since the target of 4.8 doesn't meet the criteria established for focus area 2b. The operating conditions of the centrifugal machine for building applications may be mismatched for higher pressure fluids, and the team is encouraged to consider the impact of this mismatch. It would be helpful for the authors to thoughtfully consider the motivation in light of the fact that the project concept has transformational potential, but the COP improvements do not appear to have transformational potential. PIs are also encouraged to provide a literature summary on the previous attempts on Isothermal compression.

Timely and responsive Full Applications will be reviewed by a team of subject matter experts. ARPA-E will convey the reviewers' comments on Full Applications to applicants on June 18, 2010. Applicants will have a brief window of opportunity to prepare a Reply to reviewer comments on Full Applications. If you would like to submit a Reply, please refer to the Funding Opportunity Announcement (<http://arpa-e-foa.energy.gov>, under "Funding Opportunities"). The Funding Opportunity Announcement sets forth the requirements for Replies and instructions for the submission of Replies. The deadline for submission of Replies is 5 PM Eastern Time on June 22, 2010.

Again, thank you for your time, effort, and energy in making your submission. We look forward to receiving your Full Application.

Sincerely,

A handwritten signature in black ink, appearing to read "Arun Majumdar". The signature is written in a cursive style with a horizontal line underneath the name.

Dr. Arun Majumdar
Director



Concept Paper Submission Details for ARPA-E Control Number 0289-1563

(Data as provided by Applicant in ARPA-E eXCHANGE system)

Project Title:	Low GWP Working Fluid Isothermal Turbo-Compressor
Lead Organization:	Appollo Wind Technologies, LLC
Proposed Period of Performance:	18 months
Technical Point of Contact:	Peter Swett
Administrative Point of Contact:	Karen Corr