

(24) Motor Control and Power Conversion Technologies Using FLEXMOD

The key objective of this 18-month program is to develop a flexible, universal, modular inverter platform that can be applied to a range of electric motors from fractional horsepower to 100 horsepower or more.

Total project cost: \$486,484

Funding request: \$389,184

Project Lead: Advanced Energy

Project Participants: Raser Technologies, Inc., Washington State University Energy Program

Start Date: March 28, 2005

End Date: September 28, 2006

Presentations/Publications

None.

Patents

None.

Progress in Past Quarter and Current Status

This project has been very active over the past two quarters. Raser completed Tasks 2, 3 and 4, and has made considerable progress on Task 5. Raser completed the electrical and mechanical design of the FLEXMOD controller as well as analysis and initial prototype manufacture. Raser will refine the performance of the controller through developmental testing before testing here at Advanced Energy.

Note that the spending schedule reflects a higher cost share contribution from Raser than was initially budgeted.

Plans for Next Quarter

Task 5, Fabrication, should be complete next quarter. We should also have started Task 6, Testing. This will involve development of a testing protocol for the controller and two motors. Some of the protocol development occurred this quarter. A testing date has not been set as of this report.
