



The Score Project & EWB-UK Research

Project Proposal: Linear Alternator Options

Full description of Problem:

Investigate Linear Alternator options for large scale manufacture

- a). Magnet manufacture of Halbach array
- b). Low cost suspension, looking at changed topology to increase stiffness whilst reducing material content and preserving fatigue life.
- c). Reducing material content of overall design

How the local community will use the proposed solution:

There is an estimated world market for Score of between 60 Million and 2 billion units depending on the end user price. See the web site links for more details.

Estimate of the economic benefit anticipated and plans for training of the local community:

We aim to recruit local universities to train people in the manufacture, maintenance and use of the Score Stove as well as stimulating local business.

Full description of the local situation:

The project is aimed at the Indian sub-continent and sub Saharan Africa with some South American influence. Practical Action can co-ordinate field trips near to their local offices. see web site references for details.

Useful background reading or resources:

<http://www.score.uk.com/research/default.aspx>
<http://www.score.uk.com/research/Shared%20Documents/Pressreleases/poweredbysound.htm>
http://www.score.uk.com/research/Shared%20Documents/Score_Papers/Score_Acoustics08.ppt
<http://www.score.uk.com/research/Lists/Score%20in%20the%20News/AllItems.aspx>
<http://www.lanl.gov/mst/engine/>

<http://www.aster-thermoacoustics.com/indexeng.html>
<http://www.lanl.gov/thermoacoustics/Book/index.html#preface>

Organisation Contact Details:

Name of Organisation	The Score Project
Contact	Paul Riley -- paul.riley@nottingham.ac.uk
Web site	www.score.uk.com
Background information	The Score Project started in March 2006 and phase 1 will complete in 2012. We are aiming to produce over 1 million Score Stoves after 2012 by working with partners to aid exploitation.