

## Funding Request for Disaster Remediation Projects

- 1) Folding Emergency Dome - Field Hospital - Storm Shelter (The Millennium-Home, design variation-B)
- 2) Portable Energy Generation Device (The HB Circumferential engine)

The two projects conveyed below are inter-dependent / technically intertwined but could be funded separately as parallel or independent programs. The inventor and designers are driven by passionate, humanitarian goals, notwithstanding the exponential profit potential as production units are deployed. Direct application of these units within the scope of critical humanitarian need can be visualized most anywhere in the world.

For example: The displacement of people in the Burma typhoon crisis and devastating earthquake in China's Sichuan province are two prime areas of need. Potential applications could fill this page.

Government, humanitarian and local relief agencies assisting people whose lives have been devastated by geo-tragedies or civil unrest urgently need our help! Our small group of professional designers and inventors are collectively energized to fully develop and introduce both systems with full production intent. Inexpensive, portable and non-hydrocarbon fueled energy generation coupled with portable, efficient and storm resistant temporary housing / emergency shelters will address the needs of disaster relief teams world-wide.

- 1) The Millennium-Home project, design variation-B (a folding, transportable dome) is a human shelter - portable hospital - aid center. Modular construction, easily transportable by airlift or tractor trailer, cost efficient to build, easy to assemble onsite and constructed primarily of "green materials", i.e. the aluminum skeleton frame is covered in a polyethylene hard-shell exterior (both are 100% recyclable and/or recycled materials).

Developmental funding is required to move forward from the concept design status to a feasibility and production-intent design stage (for an accurate costing summary of materials and manufacturing). Initially, we are requesting \$86,250 to further the development of a specialized folding dome version or "design variation-B" of the Millennium-Home Project. Visit [www.millennium-home.com](http://www.millennium-home.com) for additional information. The funding request includes capital expenditures for a CAD Workstation (PC) hardware upgrade and advanced CAD software (SolidWorks CAD 2009) subscription renewal with dynamic virtual simulation-testing capability.

- 2) The HB Circumferential engine does not consume or rely on petroleum, bio-derived fuel, solar, wind or any traditional fuel source (these can be used if available). The unit is comparatively small and lightweight (relative to traditional internal combustion engines) and is designed to be geometrically scalable in power output and adaptable within a variety of end-use applications. As an initial design direction, the unit is machined from common materials and requires only standard machining processes to manufacture. The device is currently in a detailed design stage (3D CAD models and component drawings) and must be completed prior to the physical prototype development stage.

The variable power output calculations, EMI shielding evaluations, 3D CAD models and engineering drawings must be finalized prior to machining prototype components for design validation and testing. To meet our accelerated project schedule, we are requesting \$55,000 to further develop, prototype and validate the device.

Upon completion of an NDA, additional information for the folding dome and/or engine will be provided to qualified funding sources along with estimated development scheduling and project planning forecasts.

Best regards,

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