



Call for Innovation (CFI) Opportunities for Member Consideration

- Objective:** The EDGE Network is requesting Member collaboration for miniature power generation technologies for an immediate requirement aligned to the US Army Battlefield Air Operations kit.
- Requested Innovations:**
- 1) A quiet, silent, low-wattage air pump capable of driving 6-8 liters/min. air at 1 psi backpressure.
 - 2) Fanless, compact heat dissipation system for 200 thermal Watts rejection to air.
 - 3) >10% thermal-to-electric power converter operating between 600C and ambient temperature with 200 Watts of thermal drive power.
- Description:** The focus of this Call For Innovation (CFI) is to solicit products and technologies from EDGE members that would contribute to the development of small, portable electric power generators of order 20-50 Watts operating on JP-8 logistics fuel. The intent is to provide a single integrated power source for use by forward operating units for battery charging and real-time power for battle-hard laptop computers and communications gear.
- Targeted Timelines:**
- Confirmation of Interest in CFI no later than 15 December 2009
 - Overview/Whitepaper on Technology Concept by 15 January 2009. (Prefer the delivery of white paper to be delivered with CFI intent on 15 December)
 - One-on-One discussions on technology and capability demo with The EDGE Network Team
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