Selection Criteria:

Energy Savings:

- If a building were to apply this technology, how much energy could it save compared to a "typical" existing building? How much energy could it save compared to a typical "new" building built to the latest (IECC 2007) code? Provide references, calculations, and documentation.
- If the technology is a drop-in replacement, how much energy could it save compared to "typical" new equipment? Provide references, calculations, and documentation.

Market & Job Creation Potential:

- What is the market potential for this technology?
- What types of buildings is this technology best suited for? What types of buildings is this technology ill-suited for?
- How many US buildings that could potentially benefit from/utilize this technology? What % of U.S. buildings does that represent?
- What is the current sales volume (or estimated annual U.S. installations) of this technology? (Equipment sold/year)? If this technology achieved maximum market penetration overnight, what would the annual sales volume be? How is this projected to grow by 2030?
- What are some of the primary obstacles to achieving greater market penetration? How will this demonstration project help to address and/or overcome those obstacles?
- What is the U.S. job creation potential for this technology? (e.g. manufacturing jobs, installation jobs, service & maintenance jobs, etc.)

Cost:

- What is the equipment cost of this technology? Installed cost?
- How do these costs compare to standard technology available on the market?
- If incremental cost of this technology is higher than standard technology, what is the typical pay-back period of the incremental cost? Provide references, calculations, and documentation.

Installation/Maintenance:

- Describe the installation and maintenance needs of the technology.
- Explain installation and maintenance differences compared to standard technology. Note in particular where installation and/or maintenance requires special skills.

Warranty:

- Do suppliers of the technology generally provide a warranty? If so, please describe warranty terms or include examples.

Availability:

- Who are the major suppliers of this type of technology? If only one company currently supplies the U.S. commercial market, describe plans for entry by other companies. (While DOE recognizes that there will be differences among individual products, please include all companies that could be broadly classified as producing this general category of technology.)
- How long have these suppliers been selling this technology in the U.S. market?

- Is there competition among suppliers, or do they each serve a specific niche of the market?
- Do suppliers have the ability to meet current demand? Do suppliers have the ability to expand production rapidly in response to increased demand?
- Are qualified installers and maintenance professionals for this technology generally available in all parts of the United States? If lack of qualified installers of this technology a current issue, what are suppliers doing to address it?

Previous Demonstrations:

Describe any previous demonstrations conducted in public or private facilities and include their results.

Experience:

If applicable, describe the experience of the personnel proposed to be involved in the demo. Include CVs, resumes, and references.

Additional Benefits:

Describe additional benefits of this technology (for instance, health and environmental benefits) if applicable. Provide references and documentation.