



Emerging Energy Technology Grant

Jason Meyer

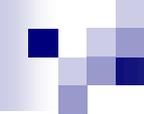
Fellow, Energy Program

Denali Commission



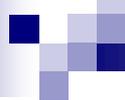
Goals of the Solicitation

- Fill funding gaps
- Demonstrate need
- Form funding coalition
- National “catchers mitt”
- Build momentum for future funding opportunity
- “Lessons Learned”



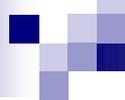
Future Opportunities

- SB150
 - Referred to the Finance Committee
- Federal, Stimulus opportunities
- Uncertainty of Denali Commission funds
- Importance of partnerships, leveraging mutual funding



Energy Technology

- Technology that promotes, enhances, or expands the diversity of available energy supply sources or means of transmission, increases energy efficiency, or reduces negative energy-related environmental effects.
- Includes technology related to renewable sources of energy, conservation of energy, enabling technologies, efficient and effective use of hydrocarbons, and integrated energy systems.



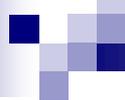
Renewable Energy

- Energy derived from wind, solar, geothermal, hydrothermal, wave, tidal, river in-stream, or hydropower; low-emission nontoxic biomass based on solid or liquid organic fuels from wood, forest and field residues, or animal or fish products; dedicated energy crops available on a renewable basis; or landfill gas and digester gas.



Alternative Energy

- Energy derived from nontraditional sources or the utilization of traditional sources in a new or unconventional manner;
- The supplementation, integration, or alteration of an energy system with a new or unconventional process that is not typically reliant on traditional fossil fuels.



Eligibility

- Alternative or renewable energy
- Demonstration phase
- Viable in 5 years
- AK applicant
- Potential for both widespread deployment in AK and reduced energy costs



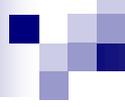
Process

- Two-round application
 - First Round – brief project summary
 - Second Round – robust project application with Q&A
- Precedence
 - Arctic Energy Technology Development Laboratory
 - Alaska Science and Technology Foundation



Review Committee

- Alaska Energy Authority
- Alaska Power Association
- Denali Commission
- National Energy Technology Laboratory (DOE)
- National Renewable Energy Laboratory (DOE)



Lessons Learned

- Lessons learned most important result of solicitation
- Program will be managed by the Alaska Center for Energy and Power
- ACEP will work with each applicant, designing a custom data collection, analysis, and reporting component



First Round Indicators

- 50 applications
- \$29.5 million in requests
- University entities, local governments, private investors, nonprofit organizations



First Round Examples

- Batteries and storage
- Electric vehicles for rural areas
- Hydrokinetic projects
- Psychrophiles
- Seawater heat pumps
- Controls, smart grids, monitoring