

Project Ideas for Stimulus Funds (draft 1.1 – Bob Haug)

This project list contains many examples that may be eligible for funding from stimulus funds. Stimulus funds for energy efficiency and renewable energy projects will be flowing through the Iowa Office of Energy Independence (OEI) as well as directly from the US Department of Energy (DOE). For more information on the specific funding sources, qualifying projects, and rules for applying for money, please see the OEI's website: <http://www.energy.iowa.gov/ARRA09/RecoveryFundingOpportunities.html>

While the information about the funding sources has continued to become much clearer, the OEI the DOE are still working on rules for dispersing the money. As more information is made available the OEI will post it on the above website.

1. Energy Efficiency (other)
 - a. Lighting
 - i. Bulk CFL purchase for blitz distribution
 - ii. LED Street lighting pilots
 1. New lighting design with edge lighting, motion sensors or two-stage lights
 2. Multi-block demonstrations in regions for ready access by others
 - iii. Deployment of advanced lighting controls as EE measure
 - iv. Supplemental rebate funds for commercial T-5 retrofit
 - b. Equipment
 - i. Motors, VFD
 - ii. Energy efficient transformers and other technologies to capture distribution efficiencies
 - iii. Metering technologies
 - iv. Infrared imaging devices
 - c. Audits and studies
 - i. Whole town audits
 - ii. Audits for SRF motor project
 - iii. Water/Wastewater cost benchmarking (update previous study)
 - iv. Distribution efficiencies
 - v. Information about usage derived from better metering, e.g., funds to offset cost of meters, meter reading equipment, design, and engineering (John B.)
 - d. Program design and delivery
 - i. Joint program marketing materials
 - ii. IAMU administrative support
 - iii. Engineering review of motor/pump project
 - iv. Low-income program development
 - v. Administrative support for rental property standards
 - vi. Support for appliance pickup program

2. Renewables
 - a. Geo-thermal utility
 - i. From Todd Kielkopf: I had a meeting with our local USDA Rural Development rep. today. One subject brought up was the geothermal utility. They've got grant funding up to 25% of the project. I still would like to pursue stimulus or power fund monies. Next step is to get the building concept designs from Downing Constructions to IAMU and to have a meeting with an engineering firm that has some experience in this type of work.
 - ii. Development of ordinance and review of 476.23 to .25 to determine whether geothermal utility is in the business of selling heat. Alternatively, we could scramble and see if there was legislation the title of which is broad enough to encompass a clarifying amendment (i.e., that it is not a utility) or the language I suggested on municipal energy enterprise.
 - b. Wind energy systems
 - i. IAMWind project
 - ii. Distributed wind
 - iii. Packaged wind projects for water or wastewater aeration, area lighting, or other specific needs
 - c. Community digesters
 - d. Low-head or run-of-river generation
 - e. Distributed wind
 - f. Community digesters
 - g. Solar
 - i. Packaged solar systems, e.g., with PowerFilm or other provider for:
 1. Aeration package for water and wastewater
 2. Sign lighting package (John Root has a package for \$2 to \$3 k)
 3. Lighting package with innovative collector ~German solar tree
 - ii. Supplemental rebate funds for solar water heat
 - iii. Demonstration of solar AC
3. Telecommunications and Smart Grid applications
 - a. DR aggregation program
 - i. Thermostat buy-down
 - ii. Enhancement, such as metering information to thermostat
 - iii. Integration of substation metering data with DR software
 - b. Projects for BB utilities
 - i. Advanced metering applications
 - ii. Business/workforce deployment centers – demonstration projects
 - c. Innovative technologies for telecom emergency power
4. Storage
 - a. Off-peak ice (John Bilsten noted change in school year and more classes during air conditioning months. He also noted geothermal in this context.)
 - b. Off-peak hot water

5. Rates
 - a. Non-traditional rate design, such as time of use, inclining block, shift of costs to distribution fee, or heating lighting cost approach rather than kWh rate.
6. Training and Education
 - a. Training funds are included in several of the various pots of stimulus funds. A few possibilities follow:
 - i. Energy auditing
 - ii. Advanced metering
 - iii. Lighting technologies
 - iv. Energy efficiency for key accounts
 - b. Financial support for eco@home and similar publications
 - c. Development and implementation of energy curricula for schools
 - d. Career development materials