Funding of 2007 EISA Authorized Program for Investment in Public Sector Energy Efficient Infrastructure

Appropriation of $1.0 billion of the authorized funding is urgently requested to implement Section 399A, 42 U.S.C. 6371h-1.

Urgent action is needed for investments in public sector energy infrastructure that will create jobs, reduce costs, cut greenhouse gas emissions, diversify fuels and save energy.

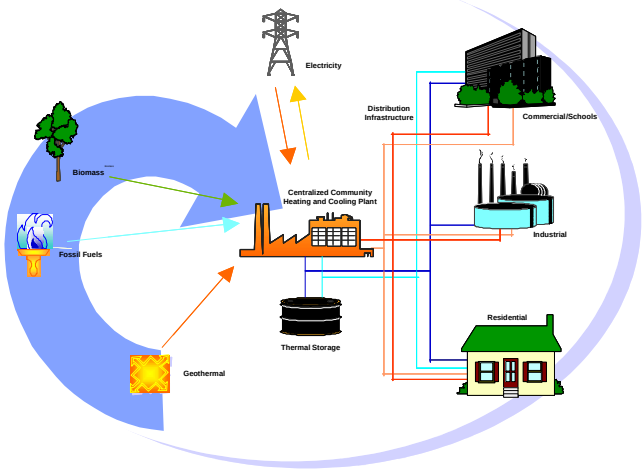
Funding this authorized program via the economic stimulus package will:

1. **Immediately create jobs through construction of many pre-designed but stalled energy-efficient infrastructure projects**
2. **Boost local economies over the long term by re-circulating more energy dollars locally**
3. **Make higher education more affordable by reducing campus operating costs**
4. **Reduce greenhouse gas emissions, save energy and strengthen power grids**

Public Sector Program Authorized in 2007

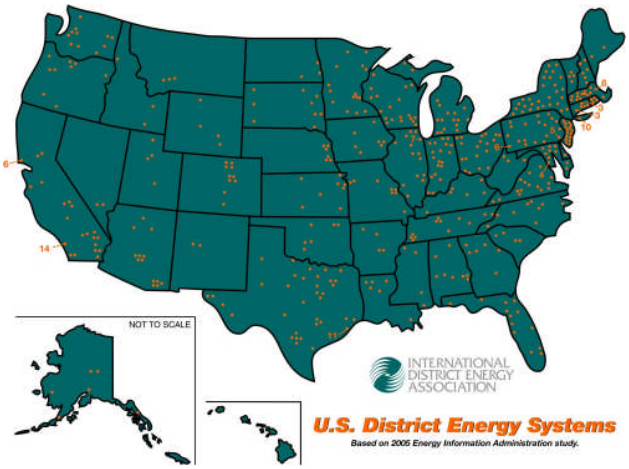
The Energy Independence and Security Act (EISA) of 2007, passed by the Congress and signed by the President, authorizes a program for **Energy Sustainability and Efficiency Grants and Loans for Institutions** [Section 471 of Public Law 110-140, incorporated as Section 399a in the Energy Policy and Conservation Act (42 U.S.C. 6371h-1)].

Appropriation of **$3.75 billion over 5 years** is authorized for implementing or improving sustainable energy infrastructure, including district energy systems, facilities for production of energy from renewable sources, CHP, waste heat recycling or natural sources of thermal energy. These dollars would leverage investments by eligible public sector entities including institutions of higher education, local governments, municipal utilities and public school districts.



Where Are The Opportunities?

Economy-boosting sustainable infrastructure opportunities exist in all 50 states, at colleges and universities, urban centers and communities.



The energy investments supported by this program use proven, off-the-shelf technologies that immediately cut energy costs and provide both short-term and long-term economic stimulus.

Why This Program Should be Funded Now

Due to the economic crisis, many clean energy infrastructure projects have been halted which could be implemented immediately. University endowments have shrunk, credit markets are tightened and local government tax revenues are down. These projects will:

1. ***Provide near-term economic stimulus.*** Designing and building new clean energy infrastructure will stimulate high quality construction and green collar jobs.
2. ***Stimulate local economies in the long term.*** Investing in local energy supplies and sources keeps money re-circulating in regional economies and improves U.S. international trade balance.
3. ***Reduce pressure on public institutions.*** These newer energy assets cut operating costs, reduce emissions and relieve financial pressures on higher education and communities.
4. ***Achieve critical environmental and energy goals,*** including reduced greenhouse gas (GHG) emissions, increased local power supplies and reduced peak power demand.

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Representative Projects – "Shovel Ready"

The projects listed below are examples of the scores of infrastructure investments in district energy and CHP systems across the U.S. that are ready to break ground. These are transformational projects that cut CO_2 emissions, increase fuel flexibility, improve grid reliability, reduce operating costs, and create U.S. jobs. IDEA can provide further details on each project as well as a more extensive list of "shovel ready" projects. The job numbers include the full economic impact of the projects.

Washington, Seattle – Seattle Steam conversion to biomass + CHP Expansion, $75 million, 460 jobs

Hawaii, Honolulu – Hawaii Sea Water Cooling system, $100 million, 450 jobs

Vermont, Montpelier – City of Montpelier Biomass District Energy Development, $11 million, 70 jobs

California, Sacramento – SMUD Railyards District Energy System, $70 million, 330 jobs

Nevada, Reno - University of Nevada, Reno Redfield Geothermal System, $15 million, 60 jobs

Minnesota, St.Paul – Biomass district energy expansion, $70 million, 290 jobs

Michigan, Marquette – Biomass Combined Heat & Power (CHP) Research Center, $68 million, 370 jobs

New Jersey, Wayne – Wayne Township CHP District Energy Development, $25 million, 120 jobs

Texas, Houston – Texas Medical Center CHP District Energy Expansion, $275 million, 800 jobs

Massachusetts, Boston – Deer Island Water Treatment CHP efficiency project, $2 million, 13 jobs

Colorado, Boulder – University of Colorado CHP District Energy Upgrade, $130 million, 380 jobs

Iowa, Iowa City – University of Iowa Biomass CHP Expansion, $66 million, 400 jobs

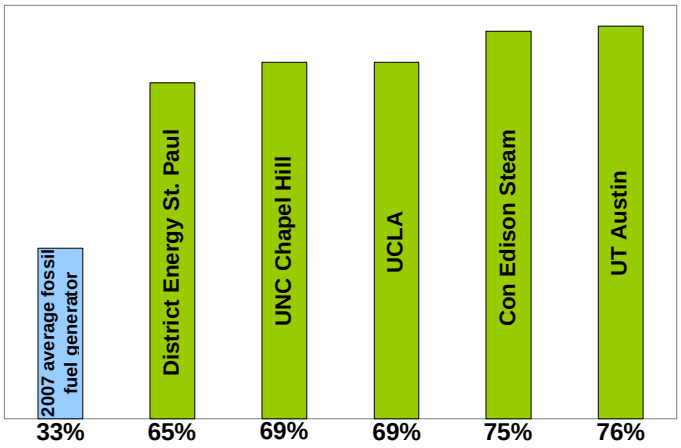
Pennsylvania, State College – Penn State 7 MW CHP Upgrade, $14 million, 70 jobs

North Carolina, Chapel Hill – UNC Chapel Hill Central Plant Efficiency Innovation, $14 million, 60 jobs

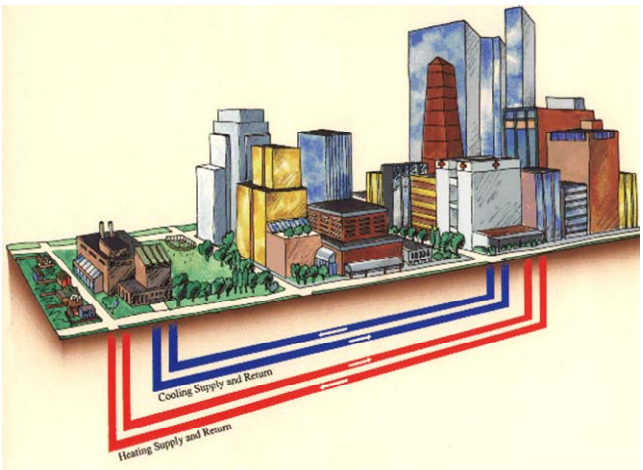
Illinois, Charleston – Eastern Illinois University Biomass/Wind Energy Center, $80 million, 490 jobs

Combined heat and power (CHP) systems generate electricity and thermal energy simultaneously in a single, integrated system. District energy systems that employ CHP are twice as efficient as current conventional power generation systems due to recovery of heat that is normally wasted in power plants.

System Efficiency



District energy systems serve millions of square feet of connected customer buildings, creating the central plant economies of scale to apply renewable and fuel flexible solutions not feasible for single buildings. District energy systems provide a range of opportunities to **use local renewable energy sources** such as bio-energy, lake or ocean water, geothermal, landfill gas and waste to energy, which yield significant spin-off employment in fuel procurement and processing, and help stabilize energy supplies and prices.



IDEA has been supporting the district energy industry since our founding in 1909.

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