DEPARTMENT OF PUBLIC WORKS

NEWS

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BUREAU OF SANITATION'S TERMINAL ISLAND RENEWABLE ENERGY PROJECT RECEIVES DEPARTMENT OF ENERGY GRANT

LOS ANGELES (September 22, 2009)—The Department of Public Works Bureau of Sanitation Terminal Island Renewable Energy Project has been selected as one of the Department of Energy's (DOE) 11 projects to receive grant support. The funding is aimed at increasing scientific understanding about the potential of promising geologic formations to safely and permanently store carbon dioxide (CO2). The process involves isolating and capturing CO2 from fossil fuel emissions and injecting it in geologic formations for permanent, safe storage. TIRE is a collaboration between the City of Los Angeles and Terralog Technologies.

"The Department of Public Works takes environmental stewardship very seriously, and this is a great opportunity for us to do even more, so we are grateful for the grant support," said Board of Public Works President Cynthia M. Ruiz.

The City of Los Angeles has allocated surface property at the Terminal Island Water Reclamation Plant to drill up to three wells for investigation of CO2 sequestration and methane generation from injected biosolids. Two wells have already been drilled and cored in the area, and the DOE grant funding will support drilling of a new well to further characterize potential targets and seals for CO2 sequestration in the North Wilmington Graben area.

"We are honored to have the Terminal Island Renewable Energy project selected for this research grant," said Bureau of Sanitation Director Enrique C. Zaldivar. "TIRE is already at the forefront of technology, and we look forward to seeing how the results of this additional research can help us achieve our mission of protecting public health and the environment."

The 2009 American Reinvestment and Recovery Act funds $49.75 million of the $75.5 million in projects receiving grant support. For the Carbon Capture and Storage project, the grant funding is $4.8 million, $2 million of which will support the cost to drill TIRE's third well. The research conducted will characterize the Wilmington Graben for large-scale CO2 storage, providing the City of Los Angeles with an opportunity to reduce greenhouse gas emissions and improve environmental management of municipal wastes.

T.I.R.E. is a City of Los Angeles and Terralog Technologies project undertaken in partnership with the U.S. Environmental Protection Agency (EPA). The U.S. Department of Energy and the National Science Foundation also provide research support. Innovative technology used in the project

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converts biosolids into clean energy by deep well injection and geothermal biodegradation, sequestering greenhouse gases in the process.

The project is the nation's first and only full-scale application of biosolids injection technology which adapts petroleum industry technology to convert biosolids into a new source of alternative green energy that can be utilized ultimately to power 3,000 homes. Simultaneously, TIRE captures and sequesters more than 83,000 tons of greenhouse gases, the equivalent of taking more than 14,000 cars off the road.

The City of Los Angeles has been granted a five-year experimental permit from the U.S. EPA to evaluate the viability of injecting biosolids into deep subsurface. Project site is located at the City's Terminal Island Water Reclamation Plant in San Pedro, California. The demonstration project has been in operation for more than a year, and the data shows formation injectivity and responses are very good.

The Department of Public Works is the second largest municipal agency in the City, focused on essential needs for a better quality of life and environmental protection. With 5,700 employees and a $1 billion annual budget, the department is responsible for construction, renovation and operation of public facilities and infrastructure including: municipal buildings and treatment facilities; streets, street lights, and the urban forest; bridges and sidewalks; sewers, catch basins and storm drains; recycling and integrated solid waste management.

For more information about the Department of Public Works, call the Public Affairs Office at (213) 978-0333 or visit www.lacity.org/bpw.

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