


[Help](#) | [Contact Us](#)

[Home](#) > [County Projects](#) > [Public Utilities Projects](#)

#### Capital Projects

#### Community Development Projects

#### Council Projects

#### Economic Development Projects

#### Environmental Services Projects

#### Information Technology Projects

#### Parks and Recreation Projects

#### Public Utilities Projects

#### Public Works Projects

#### Trinity Site Information

#### Completed Projects

## DPU-NEDO Smart Grid Collaboration

Updated: September 2010

*Quick Look: Each DPU project described on our Public Utilities Project pages, includes a synopsis of the work, background rationale, budget, schedule, and traffic impacts, if any. News Extra: The 2010 Energy Leadership Award of the New Mexico Assoc. of Energy Engineers was awarded to the DPU's John Arrowsmith in connection with the DPU-NEDO Smart Grid Project. See photo below, under "Recent News."*

#### [Announcing](#)

#### [The Los Alamos Smart Grid Support List](#)

[for potential service and material suppliers. Click here to register your expertise and business offerings in support of](#)

[a 2 megawatt solar facility on a capped landfill in Los Alamos County,](#)

[a 7 megawatt-hour large scale battery storage system; and a](#)

[demonstration home, "Smart House" with the latest construction techniques, smart meters and smart appliances for optimized power consumption to enhance conservation and](#)

[comfort.](#)

We review the Support List information regularly for thoroughness and will contact you if any further information is required. The Smart Grid Project leadership reviews the registry on an as-needed basis to find the local business that will best meet their needs. Thank you for supporting this local, utility-scale, smart grid project that is integrated with clean, renewable, solar power.

#### Recent News



*The New Mexico Association of Energy Engineers (NMAEE) gave the 2010 Energy Leadership award to Los Alamos Dept. of Public Utilities (DPU) Manager John E. Arrowsmith in connection with the DPU-NEDO Smart Grid project in Los Alamos at an awards ceremony in Albuquerque on Sept. 21. Accepting the award for Arrowsmith was Deputy Utilities Manager James Alarid. L-R Alarid, Science Advisor to Governor Richardson, Dr. Tom Bowles, who presented the award; Jack McGowan of the Galvin Electricity Initiative and Donald E. Swick of the NMAEE.*

[Japan's New Energy Technology & Development Organization \(NEDO\) names 19 selected participants for Japan-U.S. Smart Grid Collaborative Demonstration Project...click here for the NEDO Press release](#)

#### Project Description

The Los Alamos Dept. of Public Utilities and a Japanese agency (NEDO) are teaming up to develop smart grid technology here. Smart grids are new-generation electrical power networks that efficiently control and balance the supply and demand of power through digital information that integrates small and large-scale renewable energy sources.

#### Project Contact

Utilities  
Manager  
John E.  
Arrowsmith,  
through Julie  
Williams-Hill  
Dept. of Public  
Utilities (DPU)  
[DPU@lacnm.us](mailto:DPU@lacnm.us)  
662-8333

The Los Alamos Smart Grid project includes:

- A 2 megawatt photovoltaic solar array at the former landfill on East Jemez Road
- A large scale battery storage system
- A demonstration home in Los Alamos built or retrofitted with the latest construction techniques, smart meters, and smart appliances for optimized power consumption to enhance conservation and comfort.

Japan's New Energy and Industrial Technology Development Organization, or NEDO, selected [19 subcontractors](#) to participate in Los Alamos and Albuquerque projects. In Los Alamos, participants include:

Toshiba  
Hitachi  
Kyocera  
Sharp  
NGK Insulators  
(CTC) Itochu Techno-Solutions  
NEC  
Shimuzu

United States' parties to the Los Alamos Smart Grid project include the Department of Energy, Los Alamos National Laboratory, and the Los Alamos Dept. of Public Utilities. National, regional and local media coverage of the parties' Signing Ceremony held on March 5, 2010 at Buffalo Thunder Resort in Pojoaque, NM follows.

[New Mexico Business Weekly](#)  
[Smart Grid News](#)  
[Product Design & Development Magazine](#)  
[Green Tech Media](#)  
[Los Alamos Monitor](#)  
[Links to All Coverage in 120 Media Outlets](#)

### Project Background



"The price of power generated from renewable energy sources is often a hurdle for small utilities but that cost could come down if renewables can be successfully integrated with other sources and managed through smart grid technology."

--John E. Arrowsmith, DPU Utilities Manager  
at NEDO-DPU Good Faith Signing Ceremony  
March 5, 2010

Congruent with Board of Public Utilities direction, the DPU continually explores and seeks ways to bring more renewable energy into the power mix offered to our ratepayers. In 2009, on behalf of Los Alamos County, the DPU participated in Governor Richardson's New Mexico Green Grid application for federal funding under the American Reinvestment and Recovery Act. Although New Mexico was not selected for an ARRA grant, Japanese partners, NEDO, continued to show interest in Los Alamos for investment in a smart grid demonstration project. The DPU, led by its Board and John Arrowsmith, continued to flesh out the project outlines culminating in the Los Alamos Smart Grid demonstration project and the Good Faith signing of intent to reach a Memorandum of Understanding (MOU) between NEDO and Los Alamos County.

### Project Schedule & Budget

Following Board of Public Utility and County Council approvals, a completed MOU was executed in June 2010. Design work is currently underway.

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- [Public Utilities](#)
- [Community Development](#)
- [General Election](#)
- [County Council](#)
- [Diamond Drive](#)
- [Jobs](#)
- [Economic Development](#)
- [Contact Us](#)
- [Community Services](#)
- [Municipal Code/Charter](#)
- [Projects](#)
- [Questions or Comments about the site](#)

### News & Alerts

- [RR #37 Fire and Safety Recovery Measures](#)
- [RR #40 County Update on Traffic and Services](#)
- [RR#42 Community Services or Programs Resuming This Week](#)
- [NR #43 Update on Current Fire Restrictions in Los Alamos County](#)
- [RR #45 Updates on Parks, Open Spaces, Horse Stables and Trails](#)



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