



FUNDING OPPORTUNITIES

ARPA-E NEXT-Generation Energy Technologies for Connected and Automated on-Road-vehicles (NEXTCAR)

The ARPA-E NEXTCAR Program seeks transformative technological solutions that will enable at least an additional 20 percent reduction in the energy consumption of future connected and automated vehicles (CAVs), compared to vehicles without these VD&PT control technologies.

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RFI 2568 CHP Acceleration Program – CHP System Pre-Qualification

NYSERDA is accepting applications from vendors of packaged Combined Heat and Power (CHP) systems in order to pre-qualify systems that will be eligible for incentives under PON 2568 - CHP Acceleration Program. Packaged CHP systems may consist of one or more prime movers and can be from 50kW to 1.3 MW in size. PON 2568 offers approximately \$20 million in incentive funds which will be available through 2016.

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FY 2016 Vehicle Technologies Multi-Topic Funding Opportunity Announcement

Focus: accelerate the use of commercially available alternative fuel and advanced technology vehicles, and supporting infrastructure technologies, through community-based partnerships between state and local governments and the private sector.

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Innovation Action Program (IAP)

NEESC seeks applications for services that support emerging small businesses in the hydrogen/fuel cell and energy storage industry, assist

WHAT'S GOING ON

NEESC to Co-Host Several Events For Small Business Week 2016

On May 2 to May 6, 2016, NEESC will co-host several events for Small Business Week in coordination with the Connecticut Small Business Development Center (SBDC) and the Connecticut Technology Center (CTC). The Small Business Week will include a series of events including networking, a financing panel, and **webinars** focusing on **patents, trademarks, and copyright; cyber security; and branding.**

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NASA Selects Nanoptek for SPINOFF 2016

NASA has selected Nanoptek and their solar hydrogen technology to be included in SPINOFF 2016, NASA's premier annual book publication. Nanoptek is one of 9 Environment and Energy technologies and one of 52 technologies, in total, to be showcased.

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SUNY Poly's ZEN Building Uses Fuel Cell to Achieve Zero Emissions

Delegates from both industry and government in Japan toured SUNY Polytechnic Institute's ZEN building on Tuesday, a big deal for both the institute and Japan. Japan has invested heavily in research on ZEN, considered to be one of the world's largest energy-sustainable office building which includes the installation of a 100 kW Fuji fuel cell system.

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Legrand Unveils 500kW Fuel Cell

West Hartford manufacturer Legrand North America this week unveiled a 500-kilowatt Bloom Energy fuel cell that it says will power as much as 88 percent of its headquarters and manufacturing campus. The fuel cell is expected to lower the facility's carbon emissions by as much as half and save Legrand up to \$2.4 million over the next decade.

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ARPA-E Announces \$60 Million in Funding for Two Innovative New Programs

The U.S. Department of Energy's Advanced Research Projects Agency-Energy (ARPA-E) today announced up to \$60 million in funding for two new programs that aim to solve some of the nation's most pressing energy challenges by accelerating the development of novel energy technologies. The first program, NEXT-Generation Energy Technologies for Connected and Automated on-Road vehicles (NEXTCAR) seeks to develop new technologies that decrease energy consumption of future vehicles through the use of connectivity

businesses to capture private financing or federal funding for research and new product development, and facilitate the commercialization of emerging technologies.

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UPCOMING WEBINARS

SMALL BUSINESS WEEK!

[Cybersecurity & Your Small Business](#) - May 05, 2016 | 1:00 PM - 2:00 PM EST

[Growing Your Brand](#) - May 06, 2016 | 1:00 PM - 2:00 PM EST

[Hydrogen for Power-to-Gas Energy Storage](#) - Thursday, May 12, 2016 2-3 pm ET

[Alternative Fuel Corridors Designation - FAST Act Section 1413](#) - Thursday, May 12, 2016 1-2:30 pm ET

[Alternative Fuel Corridors Designation - FAST Act Section 1413](#) - Monday, May 16, 2016 1-2:30 pm ET

UPCOMING EVENTS

[Alternative Clean Transportation Expo](#) - May 2-5, 2016

[CHBC Spring Summit, Member Day and Supply Chain Workshop at ACT Expo 2016](#) - May 2, 3 & 5, 2016

[2016 New England Energy Conference and Exposition](#) - May 10-11, 2016

[The U.S. DOE's 2016 Annual Merit Review and Peer Evaluation Meeting \(AMR\)](#) - June 6-10, 2016

[The Legal Aspects of Trade Conference](#) - June 12-14, 2016

[ASME Power & Energy Conference & Exhibition](#) - June 26 - 30, 2016

[2016 Energy Exchange - Providence, Rhode Island](#), August 9-11, 2016

and automation.

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Ballard's Protonex Subsidiary Demonstrates UAV Propulsion System with Boeing Insitu

Ballard Power Systems announced that the company's subsidiary, Protonex, has delivered prototype proton exchange membrane (PEM) fuel cell propulsion modules to Insitu, a wholly owned subsidiary of The Boeing Company, for use in its ScanEagle unmanned aerial vehicle (UAV). The ScanEagle platform has logged over 800,000 flight hours in military and civilian applications, making it one of the most successful UAV platforms to date.

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WATT Reveals New Portable Hybrid Power Manager

WATT Fuel Cell Corporation unveiled the beta version of its first commercial hybrid portable fuel cell at the Progressive® Insurance Strictly Sail® Miami show February 11-15, 2016. The hybrid power manager can operate as a standalone fuel cell power generator or in a highly efficient, integrated mode by using both readily-available hydrocarbon fuel and renewable energy inputs to maximize overall efficiency and output.

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Programs Available to Assist Manufacturers in the Region

The Connecticut Center for Advanced Technology can assist manufacturers in the region improve manufacturing efficiency through one or more of the following programs:

- [Technology Assistance](#) - manufacturers will have up to two days of advice from manufacturing experts on prototyping, machining optimization, and 3D printing in plastic and metal.
- [Technology Assessments](#) - manufacturing experts will evaluate your companies' manufacturing operations and give a detailed snapshot of your strengths and areas for improvement.
- [Technology Access](#) - manufacturers will have access to advanced manufacturing hardware, software, tooling and staff for trial, evaluation, prototyping, 3D printing in plastic and metal, reverse engineering, structured light (non-contact) scanning, and machining optimization.
- [Technology Referral](#) - companies will receive technology related referrals to best match their supplier/subcontractor needs.

Financial incentives may be available!

For more information, please contact [Paul Aresta](#) at 860-282-4206

FEATURED COMPANY

[Nanoptek is now LightFuel™!](#) This includes the re-branding of products, now in development, to LightFuel™ Generators that will produce LightFuel™ Hydrogen, or simply LightFuel™. This re-brand focuses attention on the company's nanoscale optical technology that enables sunlight to substantially reduce the electrical power required to produce hydrogen from water. Compared to conventional electrolyzers, electrical consumption can be as low as 1/3, for lower-cost hydrogen and, if grid power is used, smaller carbon footprint as well. The U.S.P.T.O. recently issued U.S. Patent No. 9,278,337, "Visible Light Titania Photocatalyst, Method for Making Same, and Processes for Use Thereof" to the company for a total of 17 issued or pending U.S. and international patents for more efficient solar-driven chemistry. For more information on LightFuel™ contact [John Guerra](#).



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