

# Advanced Electric Motor Research Energy

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## **Advanced Electric Motor Research Energy**

To reach the EV Everywhere Grand Challenge goal, the Vehicle Technologies Office (VTO) is supporting research and development (R&D) to improve motors in hybrid and plug-in electric vehicles, with a particular focus on reducing the use of rare earth materials currently used for permanent magnet-based motors.

**Electric Motors Research and ... -**

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## **Department of Energy**

1 ORNL is managed by UT-Battelle for the US Department of Energy Advanced Electric Motor Research Tim Burress  
Email: burresta@ornl.gov Phone: 865-946-1216. This presentation does not contain any proprietary, confidential, or otherwise restricted information. 2016 U.S. DOE Vehicle Technologies Office Review . Oak Ridge National Laboratory. June 7, 2016

## **Advanced Electric Motor Research - energy.gov**

AMO's Next Generation Electric Machines (NGEM) program is an RD&D effort leveraging recent technology advancements in power electronics and electric motors to develop a new generation of energy efficient, high power density, high speed, integrated medium voltage (MV) drive systems for a wide variety of critical energy applications.

## **Electric Machines | Department of**

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## **Energy**

Advanced Energy has been helping shape the electric transportation industry since 1989. We believe it is important to be proactive when managing a growing electric vehicle marketplace, and we are excited to share our expertise with you. We run Plug-in NC, a statewide program in North Carolina that increases education and awareness around electric vehicles, and we partner with utilities, builders, governments, businesses and schools to assist with their electric vehicle efforts.

## **Electric Transportation - Advanced Energy**

General Electric Company, GE Global Research: Niskayuna, New York:  
\$750,000 : General Electric will develop a novel ground wall insulation that will improve voltage endurance by a factor of two, thereby saving 5-10% energy with the use of advanced SiC drives.  
NovaTorque, Inc. Fremont, California:  
\$800,000

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## **NEXT GENERATION ELECTRIC MACHINES - Department of Energy**

Advanced Electric Machines Ltd's unique, low cost HDSRM traction motor technology is designed to drive tomorrow's hybrid, range extended and electric commercial vehicles. From trucks to buses and taxi's, HDSRM is designed specifically for commercial vehicles, delivering excellent performance in a robust package.

## **Electric Traction Motors - Advanced Electric Machines Ltd**

The company, focused on research, development and the commercialization of advanced technologies, has received acclaim and worldwide interest in its first product, a complete motor system that

...

## **KLD Energy Technologies' Motor System Revs Up Malaysia's ...**

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## **Home - Advanced Electrical and Motor Controls, Inc.**

The Electric Motor Education & Research Foundation (EMERF), a 501(c)(3), was originally founded by SMMA in 1995 and is now a part of the Motion Control & Motor Association (MCMA). Governed by a Board of Directors, EMERF strives to identify projects that address their mission and serve the needs of the MCMA membership.

## **EMERF Foundation | Motion Control & Motors Association**

Typically, at-home refueling stations use reciprocating compressor technology, in which an electric motor rotates a crankshaft tied to several pistons in a multi-stage compressor. These compressor systems can be inefficient and their complex components make them expensive to manufacture, difficult

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to maintain, and short-lived.

### **University of Texas at Austin (UT Austin) | [arpa-e.energy.gov](http://arpa-e.energy.gov)**

- The U.S. Department of Energy today announced \$33 million in funding for 17 projects as part of the Advanced Research Projects Agency-Energy's (ARPA-E) Aviation-class Synergistically Cooled Electric-motors with iNtegrated Drives (ASCEND) and Range Extenders for Electric Aviation with Low Carbon and High Efficiency (REEACH) programs.

### **Department of Energy Announces \$33 Million in Funding for ...**

He is the co-author of twelve books on power electronics, motor drives and advanced vehicle systems, including Vehicular Electric Power Systems, Marcel Dekker, Inc. 2003 and "Modern Electric Hybrid Vehicles and Fuel Cell Vehicles - Fundamentals, Theory, and Design", CRC Press, 2004. He has over 23 granted or pending US and EC patents.

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## **Power Electronics & Motor Drives Laboratory**

The research is aimed at reducing barriers to wider electric vehicle adoption, including cutting the cost of ownership and improving the performance and life of components such as electric motors ...

## **New composite material revs up pursuit of advanced ...**

On July 6, 2020, the U.S. Department of Energy (DOE) issued its final determination classifying Advanced Energy as a nationally recognized certification program for electric and small electric motors. After achieving Certification Body status under ISO 17065 with the American [...] Keeping Track of Energy Use at Home

## **Blog | Advanced Energy**

08/26/2020. WASHINGTON, D.C. – The U.S. Department of Energy today announced \$33 million in funding for 17 projects as part of the Advanced



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Research Projects Agency-Energy's (ARPA-E) Aviation-class Synergistically Cooled Electric-motors with iNtegrated Drives (ASCEND) and Range Extenders for Electric Aviation with Low Carbon and High Efficiency (REEACH) programs.

## **Press Release | [arpa-e.energy.gov](http://arpa-e.energy.gov)**

We also support clean energy research and development, biofuels, and energy storage with our highly educated workforce, advanced automotive technologies, battery research and development, advanced power systems and smart grid technologies, globally respected research institutions, top-tier infrastructure, and winning entrepreneurial spirit.

## **Clean Technology | Austin Chamber of Commerce**

Advanced Energy works in the electric transportation, commercial and industrial, residential, motor and drives, and solar markets.

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## **Advanced Energy | Markets**

The US Department of Energy announced \$33 million in funding for 17 projects as part of the Advanced Research Projects Agency-Energy's (ARPA-E) Aviation-class Synergistically Cooled Electric-motors with iNtegrated Drives (ASCEND) and Range Extenders for Electric Aviation with Low Carbon and High Efficiency (REEACH) programs.

## **DOE awarding \$33M for carbon-neutral hybrid electric ...**

The Department of Energy announced the availability of up to \$133 million in grants to accelerate advanced vehicles technology research to support research that will lead to more affordable, efficient, and secure transportation energy.

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