

Pennsylvania

This fact sheet lists Inventions & Innovation projects from the state of Pennsylvania.



Distributed Energy

- **Coal-Fired Air Turbine (CAT) Cycle Plant - Foster-Pegg, Richard W.**

 **Grant Category:** 1994 Category 2 Grant, \$99,250 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/cat.pdf>

Hydrogen, Fuel Cells & Infrastructure Technologies

- **Hydrogen Production via a High-Efficiency Low-Temperature Steam Reformer - Media & Process Technology, Inc.**

 **Grant Category:** 2004 Category 1 Grant, \$50,000 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/mediaandprocesstech.pdf>

Industrial Technologies

Aluminum

- **Cost-Effective Consolidation of Fine Aluminum Scrap for Increased Remelting Efficiency - EMV Technologies, LLC**

 **Grant Category:** 2003 Category 1 Grant, \$75,000 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/emvtechnologies.pdf>

 **Annual Report:** http://www.eere.energy.gov/inventions/pdfs/13168_emvtechnologies_llc.pdf

Chemicals

- **Electrochemical Method for Extraction of Oxygen from Air - James Mulvihill & Associates**

 **Grant Category:** 2000 Category 1 Grant, \$40,000 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/mulvihill.pdf>

- **Ozone Generator Dielectric Improvement - Life Support, Inc.**

 **Grant Category:** 1995 Category 2 Grant, \$93,675 Funding


 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/lifesupport.pdf>

Cross-cutting

- **Advanced Process Heater - STORM Development, LLC**

 **Grant Category:** 2003 Category 1 Grant, \$40,000 Funding

 **Grant Category:** 2005 Category 2 Grant, \$250,000 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/stormdevelopment.pdf>

- **Nickel-Based Superalloy with Improved Weldability and Oxidation Resistance - Pennsylvania State University**

 **Grant Category:** 1998 Category 2 Grant, \$99,174 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/pennsylvaniastate.pdf>

- **SIDTEC Condenser Maintenance Program - Superior I.D. Tube Cleaners**

 **Grant Category:** 1991 Category 2 Grant, \$79,870 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/betzdearborn.pdf>

 **I&I Impacts:** <http://www.eere.energy.gov/inventions/pdfs/geinfeastructure.pdf>

- **Tough-Coated Hard Powders (TCHP) - Allomet Corporation**


 **Grant Category:** 2000 Category 2 Grant, \$200,000 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/allometcorp.pdf>

Mining

- **Wireless Telemetry for Mine Monitoring and Emergency Communications - Transtek, Inc.**

 **Grant Category:** 1993 Category 2 Grant, \$96,000 Funding

 **I&I Impacts:** <http://www.eere.energy.gov/inventions/pdfs/transtekimpacts.pdf>

Petroleum

- **Mercury-Free PVT Apparatus for Thermophysical Property Analyses of Hydrocarbon Reservoir Fluids - Chandler Engineering, LLC (Ruska Instrument Corporation)**

 **Grant Category:** 1990 Category 1 Grant, \$62,200 Funding

 **I&I Impacts:** <http://www.eere.energy.gov/inventions/pdfs/chandlerengineering.pdf>

Steel

- **Development of New Stainless Steel - Advanced Steel Technology, LLC**

 **Grant Category:** 2003 Category 1 Grant, \$35,000 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/advancedsteel.pdf>

Wind & Hydropower Technologies

- **Variable-Length Wind Turbine Blade - Energy Unlimited, Inc.**

 **Grant Category:** 2003 Category 2 Grant, \$247,000 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/energyunlimited.pdf>

 **Annual Report:** http://www.eere.energy.gov/inventions/pdfs/13171_energy_unlimited_inc.pdf



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