



## FORGING THE FUTURE

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### In This Issue

May 2015

[Electricity  
Infrastructure](#)

[Energy Efficiency and  
Renewable Energy](#)

[Environmental Health  
and Remediation](#)

[Clean Fossil Energy](#)

[Nuclear](#)

### News

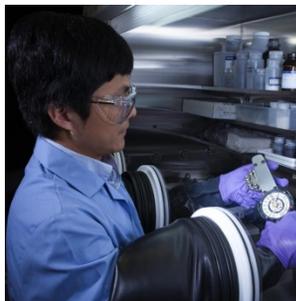
Read our Press Releases and see how Energy & Environment was featured in the news. [More](#)

### Staff Accomplishments

**Carl Imhoff**  
Named Smart Grid Pioneer. [Read more...](#)

**Ram Devanathan**  
Selected to be a

### Electricity Infrastructure



#### New Cathode Material for Energy Storage Batteries

PNNL identified sodium polysulfide-based additives for iron cathodes that could significantly reduce the cost of sodium-metal batteries, potentially paving the way for increased use of advanced energy storage systems. [Read](#)

[more...](#)

#### Grid, Energy Storage Events Showcase Regional Collaborations

In a series of back-to-back events highlighting research partnerships and successes, the Pacific Northwest's commitment to grid modernization and energy storage drew federal and regional advocates, including U.S. Sen. Maria Cantwell (D-Wash.), U.S. Rep. Cathy McMorris Rodgers (R-WA 5th District), and Patricia Hoffman, DOE Assistant Secretary of Electricity Delivery and Energy Reliability, to eastern Washington. [Read more...](#)

### Energy Efficiency and Renewable Energy

Fellow for the American Ceramic Society. [Read more...](#)

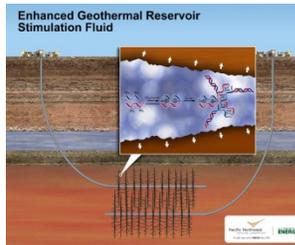
**John Holladay**  
Named Distinguished Inventor of Battelle.  
[Read more...](#)

**Vince Sprenkle**  
Named PNNL Inventor of the Year. [Read more...](#)

**Jakob Stoustrup**  
Awarded the Order of Dannebrog by her Majesty Queen Margrethe 11 of Denmark. [Read more...](#)

**Bruce Napier**  
Appointed member of the U.S. delegation to United Nations Scientific Committee on the Effects of Atomic Radiation.  
[Read more...](#)

**Oregon Volcano Considered for Federal Geothermal Energy Lab**  
PNNL was selected by the DOE Geothermal Technologies Office to conduct a detailed analysis of a geothermal spot on the northwest side of the Newberry Volcano near La Pine, Oregon, and determine the site's suitability as an observatory site for enhanced geothermal systems. [Read more...](#)



### **New Fluid Could Revolutionize Reservoir Stimulation**

A unique fluid developed by PNNL could reduce by 50% the amount of water and time needed to stimulate and open reservoir fractures for energy recovery. [Read more...](#)

### **PNNL Studying Effectiveness of "Salmon Cannon"**

PNNL is evaluating the viability of the Whooshh Fish Transport System, also known as the "salmon cannon," developed by Whooshh Innovation LLC as a gentler, more environmentally sustainable method to move migrating fish past obstacles. [Read more...](#)

### **Marine Sciences Meets Renewable Energy**

PNNL's Marine Science Lab in Sequim, Wash., was selected by the DOE's Wind and Water Power Technologies Office to establish the Marine Energy Environmental Technology Initiative, which will develop and advance instrumentation for monitoring the environmental effects of marine renewable energy. [Read more...](#)

### **PNNL Brings Building Efficiency Expertise to the Caribbean**

PNNL will be working with DOE International Affairs and Buildings Technology Offices and the Overseas Private Investment Corporation to improve water and energy efficiency in the Caribbean tourist industry. [Read more...](#)

## **Environmental Health and Remediation**



## PNNL Shares Nuclear Expertise with Neighbors to the North

As part of its efforts to upgrade its shielded facilities and hot cells at the Chalk River Laboratories in Deep River, Ontario, the Canadian Nuclear Laboratories reached out to PNNL to provide on-site technical support. [Read more...](#)

## Clean Fossil Energy



### A New Niche for Natural Gas: Fuel Cells

A study by PNNL concludes natural gas solid oxide fuel cells located at large facilities - big box stores, hospitals, building, etc.- could help meet the 10 percent increase in electricity the nation will need in the next decade. [Read more...](#)

## Nuclear



### Draft EIS Issued for Two Proposed Nuclear Power Plants in South Florida

Researchers in PNNL's Energy and Environment Directorate led the impact analysis and drafting of the environmental impact statement (EIS) for the building and operating of two new nuclear power plants at the Turkey Point site south of Miami, Florida. [Read more...](#)

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