



NJHEPS January 2006

NJHEPS

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From the Executive Director, John Cusack

As the new Executive Director of NJHEPS, I wish to thank you for the enthusiasm and excitement for our efforts that I have seen in the people associated with our Partnership. After just 6 weeks, I can tell that an amazing quantity of concrete, high-quality successes have been accomplished by my predecessors, and the many NJHEPS volunteers and supporters in the higher educational community. I look forward to working with you over the coming months and years. I also plan to keep NJHEPS Newsletter readers informed by writing a short column for each issue that will discuss our vision, goals and key issues for the higher education institutions in New Jersey, and beyond, and NJHEPS' response to emerging sustainability issues.

For this initial column, I would like to mention that, as most of you know well, sustainability is an extremely complex, comprehensive and inter-disciplinary concept, covering environmental, social and economic issues. NJHEPS has been very successful, with the help of funding support from organizations like NJBPU, the Dodge Foundation and ATT&T, on raising the awareness of key components of sustainability, including sustainable campus design, green buildings, use of renewable energy,

greenhouse gas emissions reductions and increasing energy efficiency to reduce operating costs. These are important issues, and NJHEPS will continue to address them and serve as an information resource and facilitator for addressing these issues within higher education institutions.

However, we want to expand our activities and horizons to cover many of the broader and inter-disciplinary aspects of sustainability in higher education. A good example is the Fairleigh Dickinson University Business School, which is establishing the Institute for Sustainable Enterprise (ISE), whose goal will be help future business managers learn how to "manage sustainably", through integration of sustainability concepts into their MBA and Executive Education programs. NJHEPS intends to partner with ISE to help develop their program, and then extend their "best practices" to the many graduate and undergraduate business schools and departments in New Jersey higher education institutions. Another example is NJHEPS' Sustainable Communities efforts, where we intend to collaborate with universities/colleges and their surrounding communities, hopefully with the support of state agencies such as the NJDEP and the Office of Smart Growth, to facili-



John Cusack, Executive Director

tate efforts to have campuses and their municipalities jointly promote environmental, social and economic improvements in their communities. The work of Rutgers with New Brunswick and Highland Park are a good example of a success story we can build upon and spread around New Jersey.

Our ambitious goal is that we can help New Jersey's educational facilities, businesses and municipalities to have more sustainable facilities, managers, political leaders, educators, jobs, communities and citizens. We cannot do this alone, and we welcome the support of partners in the higher education community, government agencies, the business sector and elsewhere in our efforts. Please feel free to contact me with any questions.

41 P3 Grants Awarded Including NJIT

EPA has awarded P3 grants to student teams representing 41 universities in 21 states, including NJIT! Winners were chosen from about 100 teams who applied. All the competition winners received \$10,000 grants to

research and develop their design projects during the academic year (2005-2006).

The EPA launched the P3 design competition in 2004 to respond to the technical needs of the

developed and developing world in moving toward sustainability. This national competition enables college students to research and design sustainable solutions to environmental challenges. [For More Information.](#)

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Rowan Refunded \$1 Million for Cogeneration Plant



Rowan University's Cogeneration Facility.

The New Jersey Clean Energy Program managed by South Jersey Gas and sponsored by the NJ Board of Public Utilities will refund \$1 million to Rowan University for its Cogeneration Plant, an \$11 million investment to create a combined heat and power project with the expected completion in September.

Once online, the Cogeneration Plant will generate 80 percent of Rowan's electric. Created as a by-product, steam will be extracted and utilized for heating, hot water and air conditioning. The plant's efficiency is expected to save Rowan \$1.2 million per

year.

In addition to clean energy and money savings, the Cogeneration Plant lends to Rowan's stability as the region's evacuation site in an emergency. Without an outside source, the Cogeneration Plant will generate enough electricity to sustain most of the campus with electric and heat or air conditioning. In addition, most of the electrical wires lie underground making the plant more reliable in case of a natural disaster.

According to John Imperatore PE, Director of Facilities, Re-

source Management, "Through cogeneration, major energy efficiency, photovoltaic, smart growth and conservation projects across our campus, Rowan University is rapidly becoming a leader in demonstrating how economic growth and environmental protection can co-exist - a major challenge for the State of New Jersey. Rowan University is very serious about its mandate to enrich the lives of its students, community and region by setting examples of responsible environmental stewardship such as this."

Articulating a Hydrogen Energy Policy at the State Level: New York Lessons for New Jersey

"Everyone who is seriously involved in the pursuit of science becomes convinced that a Spirit is manifest in the Laws of the Universe—a Spirit vastly superior to that of man, and one in the face of which we, with our modest powers, must feel humble." – Albert Einstein

Tuesday, February 7, 2006, 10:00* AM ~ 2:00 PM
Ramapo College of New Jersey ~ Mahwah, New Jersey
Keynote by John F. Love
Project Manager
New York State Hydrogen Energy Roadmap
New York State Energy Research and Development Authority
A Response by William Makofske, Ramapo College, with further discussion by Michael

McGowan of BOC and other Stakeholder members.

There is a clear and unquestioned value in promoting coordination among government, academic, and private interests. Since innovation in hydrogen and fuel cell technology is driven by private sector demand and nurtured in academic and private research and development, government's role is to ensure that linkages among key actors occur

and that gaps are filled where necessary. Building upon the U.S. Department of Energy Vision and Roadmap process for developing a hydrogen energy economy, New Jersey may be in the position to begin thinking about its own roadmapping process.

Please RSVP with Carmela Federico via phone, (201) 684-7500, ext. 6227; or e-mail, cfederic@ramapo.edu

Stockton Continues To Benefit From Pioneering Geothermal System



The Geothermal well field being installed at Richard Stockton College of New Jersey.

"We've been interested in energy conservation in buildings since the early 1970s. We studied geothermal designs in the 1980s and actually began using geothermal systems on our own campus in the early 1990s." This is Dr. Lynn F. Stiles, professor of physics at The Richard Stockton

College of New Jersey. He is describing the background behind the installation of one of the world's largest single closed-loop geothermal HVAC systems, totaling 1,741 tons of installed geothermal heating/cooling capacity. The college in Pomona, New Jersey, now uses a large num-

ber of heat exchange wells and water-source heat pump (WSHP) units to serve the heating and cooling needs of a large and growing campus.

[Please read the full article](#)



"Northeast Regional Greenhouse Gas Initiative: First Regulatory U.S. CO2 Cap and Trade Program"

Date: January 26, 2006

Learn About:

- Description of the Regional Greenhouse Gas Initiative (RGGI) and the stakeholder process
- Design features of RGGI who is capped at what level from what base line
- How leakage concerns will be addressed
- Offsets and what price triggers have been determined to give rise to offset availability

- How emissions will be tracked
- Trading opportunities created by RGGI
- And much more!

Seminar in New York City
ONLY - Time: 12:00 - 2:15 PM
Location: Arnold & Porter, 399
Park Avenue, 34th floor, NYC

Teleconference time

12:15 p.m. - 2:00p.m. Eastern
11:15 a.m. - 1:00p.m. Central
10:15 a.m. - 12:00 pm. Mountain
9:15 a.m. - 11:00a.m. Pacific

Cost:

The cost of registering on the web site is \$20.00 for all participants except government employees, full-time students and full-time faculty for whom there will be no charge.

Registration:

<http://store.mountainmedia.com/ceepinc/calendar.cfm?do=detail&d=3191&c=4943&p=34628>

Questions about registration:

Contact Deirdre Murphy at deirdre@ceepinc.org or (518) 432-6400 ext. 225



The Regional Greenhouse Gas Initiative

Sustainability in New Jersey; A Summit for Educators

Friday, March 31st

9 am to 3pm

Frist Hall, Princeton University

NJHEPS has been working on developing web quest modules funded by NSF over the last year and a half. NJHEPS would like to invite educators, students, and all of those interested in attending the unveiling of the NJHEPS web quests that educators can

use in their classes.

Speakers addressing the critical issues in sustainability within in New Jersey on the following topics:

- The Meadowlands
- The Highlands
- Renewable Energy
- Sustainable Communities

Speakers will be announced soon! All attendees will receive the Scott Dennis DVD on Building a Meadowlands.

Please confirm your attendance with Terra Meierdierck at (973) 642-7848 or tmeierdierck@njheps.org

This project has been supported by NJHEPS and The National Science Foundation.

"The two-word definition of sustainability is 'one planet.'" –Mathis Wackernagel

NJHEPS Spring Energy Workshop

NJHEPS Winter 2006 Energy Workshop to be held at the Rutgers EcoComplex! Mark your calendars for Friday, April 21st, 2006 from 8:30 am to 3:00 pm.

Topics include:

- Solar
- Wind

- Recs
- Campus Environmental and Energy Conservation
- The Rowan Energy Master Plan
- The New Jersey Hydrogen Learning Center and a Tour of the EcoComplex!

www.acteva.com/booking.cfm?bevaid=101805

We hope to see you there!



The Rutgers EcoComplex Conference Room.

Please register at: <http://>



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transform the higher education community, to consistently practice sustainability, and to more effectively contribute to the world's emerging understanding of sustainability, through teaching, research, outreach, operations, and community life.



www.njheps.org

John L. Cusack, Executive Director
Dr. Daniel Watts, President

Want to share progress towards sustainability on your campus? Please send news items to Terra Meierdierck (973-642-7848; tmeierdierck@njheps.org) for inclusion in our newsletter.

This newsletter is available online (from www.njheps.org/press.html). This newsletter is sent out monthly by NJHEPS via an announcements-only listserv, NJHEPS-news@listserver.njit.edu. If you no longer wish to subscribe to this listserv, please use the tools available on the listserv's home-page, at http://listserver.njit.edu/mailman/options/njheps-news/* (replace the "*" with your email address), or notify [Terra Meierdierck](#), NJHEPS Program Assistant.

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[Geraldine R. Dodge Foundation;](#)
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[ATT Foundation;](#)
[ATT, Inc.;](#)
and [NJHEPS 40 Member Institutions](#)

Whole Foods Market Buys 100 Percent Wind Power

Whole Foods Market announced last week that it has bought enough wind power to equal all of the electricity it uses. Whole Foods has made the largest purchase of renewable energy credits (RECs) in the United States, buying more than 458 million kilowatt-hours of RECs from wind power facilities. That makes Whole Foods the only Fortune 500 company to offset 100 percent of its electricity use with RECs. RECs rep-

resent the environmental attributes of renewable power and are a convenient way for individuals and businesses to support renewable energy, particularly when their local utility does not offer renewable power through a green power program. For national companies, RECs represent a way to buy renewable power without having to negotiate with hundreds of local utilities. Wind power plants can sell RECs throughout

the country and then sell the electricity they produce as a commodity. See the [Whole Foods Market press release](#).

