March 15, 2012

Christopher A. Koch, Ed.D.
State Superintendent of Education
Illinois State Board of Education
100 North 1st Street
Springfield, IL 62777-0001

Response to ISBE Request for Information: STEM Learning Exchanges

I. Statement of Interest

Illinois State University is interested in serving as an implementation or planning entity to lead the creation of the new Energy Learning Exchange.

II. Point of Contact

The primary contact person is:
Name: David G. Loomis,
Title: Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Address: Illinois State University, Campus Box 4200, Normal, IL 61790
Phone: (309) 438-7979
Email: dloomis@ilstu.edu

III. Organizational Description

Illinois State University was founded in 1857 and is located in the twin-city community of Bloomington-Normal, near the geographic center of the state. The University is home to more than 18,500 undergraduate students and 2,500 graduate students studying in one of seven academic colleges. The University conferred more than 5,000 degrees in fiscal year 2011.

IV. Organizational Corporate Status and Tax-Exempt Designation

As a public four-year university, Illinois State University is a governmental institution. Illinois State University’s tax-exempt identification number is E9991-3399-06.

V. Organizational Experience and Qualifications

Illinois State University has a long history in the education and development of teachers, and is at the forefront of a variety of industries related to renewable and clean energy technologies. Nearly one in eight Illinois teachers hold a degree from Illinois State University, and the University is one of the ten largest producers of teachers among American Association of Colleges for Teacher Education institutions. As a strong proponent of STEM education in the classroom, the Center for Mathematics, Science and
Technology (CeMaST) at Illinois State University is very interested in supporting the Energy Learning Exchange. In addition, the Institute for Regulatory Policy Studies (IRPS) at Illinois State University will play a large role in the development of the Energy Learning Exchange. The mission of the Institute for Regulatory Policy Studies is to educate, communicate and conduct research on issues related to the electricity, natural gas and telecommunications industries in Illinois and throughout the nation. The Institute is the state’s leading energy and regulatory policy institution, and hosts two energy policy conferences in Springfield each year. Also, the Center for Renewable Energy at Illinois State University will take a leadership role in the creation of the Energy Learning Exchange. The Center for Renewable Energy serves to educate and support Renewable Energy undergraduate majors at the university, to provide information about renewable energy to the general public, and to support applied research concerning renewable energy at Illinois State and through collaborations with other institutions. Recent work by the Center for Renewable Energy includes the implementation of the Illinois Wind for Schools program, support of the Illinois Innovation Talent program, and leading the Illinois Wind Working Group.

**Center for Mathematics, Science and Technology (CeMaST)**
The mission of CeMaST is to stimulate, conduct, and support integrative science, technology, engineering, and mathematics education activities and scholarship. CeMaST’s goals are aligned with Illinois State University’s strategic plan, Educating Illinois 2008-2014: Priorities for Illinois’ First Public University. CeMaST was founded in 1991 to assist in integrating efforts of diverse departments, drawn from different colleges in the university, in meeting the needs of Illinois schools in addressing issues related to mathematics, science, and technology education. For more than 20 years, CeMaST has been building a national reputation for developing and supporting successful projects and activities around STEM education.

**Institute for Regulatory Policy Studies (IRPS)**
The Institute is housed within the Department of Economics in the College of Arts and Sciences at Illinois State University. The Institute, which was created in 1997, serves the electricity, natural gas and telecommunications industries and the regulatory community. The Institute’s agenda includes education, communication and research on policy issues of interest to consumers, regulators, and utilities in Illinois and throughout the nation.

**Center for Renewable Energy**
To meet the growing need for education, outreach and research, Illinois State University created the Center for Renewable Energy with initial funding through the U.S. Department of Energy. The Center for Renewable Energy is a research and public service unit formally recognized by the State of Illinois. It was approved by the Illinois State University Board of Trustees in November, 2007 and by the Illinois Board of Higher Education in August, 2008. Current work at the Center for Renewable Energy includes leading the implementation of the Illinois Wind for Schools program, in which faculty and staff work with high schools throughout Illinois to integrate energy and wind energy-related material into the classroom curriculum. The Center also serves as a sponsor for the Illinois Innovation Talent program, a Problem-Based Learning initiative in which students at eight Illinois partner schools are challenged to serve as consultants to recommend ways in which their school could be more energy efficient and implement sustainable forms of energy. The Center for Renewable Energy also leads the Illinois Wind Working Group and organizes a variety of training workshops, seminars and conferences each year on topics related to renewable energy.

The Center has three major functional areas: supporting the renewable energy major at ISU; serving the Illinois renewable energy community by providing information to the public; and encouraging applied research on renewable energy at ISU and through collaborations with other universities.
VI. Stakeholder Support

In order to form a complete Energy Learning Exchange with expertise spanning the range of energy technologies, we will leverage the enthusiasm and support of a large group of public and private organizations throughout the state. Letters of support from each organization are attached.

Many networks of public institutions have thrown their support behind the Energy Learning Exchange, including the State Energy Sector Partnership (SESP), the Illinois Clean Energy Education Network, and the Illinois Green Economy Network (igen). We will partner with the Illinois Clean Energy Education Network including the University of Illinois at Urbana-Champaign, Northwestern University, the University of Illinois at Chicago, and the Illinois Green Economy Network of Community Colleges. These institutions are pioneers in the area of clean energy education, and the network recently organized an NSF-sponsored workshop to develop elements of a national clean energy education program. We will also partner with Western Illinois University’s Illinois Institute for Rural Affairs (IIRA). The IIRA is a leading Illinois organization working on rural issues such as wind energy and biomass issues, and the IIRA leads the Illinois Biomass Working Group. We will also partner with the Illinois Institute of Technology’s Galvin Center for Electricity Innovation. The Galvin Center for Electricity Innovation is composed of experts in the areas of electricity generation, electricity management, and smart grid technologies. We are also partnering with the Southern Illinois University Coal Research Center. The Coal Research Center includes world-renowned experts in clean coal and advanced coal research. In addition, we are partnering with several other public sector organizations including: the University of Illinois Graduate College, the University of Illinois School of Labor and Employment Relations, Northwestern University Initiative for Sustainability and Energy, the University of Illinois at Chicago Summer Institute on Sustainability and Energy, the National Corn to Ethanol Research Center at Southern Illinois University at Edwardsville, Illinois State University Facilities and Sustainability Office, Adlai Stevenson High School, and The Workforce Boards of Metropolitan Chicago.

Many private sector organizations are very enthusiastic about being involved in the creation of the Energy Learning Exchange as well. We have received letters of support from Commonwealth Edison, the largest investor-owned electric utility in Illinois, and Peoples Gas and North Shore Gas, the supplier of natural gas to the Chicago market. We also have letters of support from the Illinois Energy Association, the Illinois Chamber of Commerce, the Operation Green Jobs Organization, the Sustainable Strategies Company, Iberdrola Renewables, Kestrel Development Company, EDP Renewables, Mainstream Renewables, the Robert M. Fletcher Company, Utility Workers Union of America Local 18007, Teamsters Local 786, and Service Employees International Union Local 73.

VII. Identification of Subcontracted Organizations or Entities

Illinois State University does not intend to subcontract any planning activities related to the Energy Learning Exchange. We expect that each public sector partner will contribute to the curriculum development and knowledge exchange of the Energy Learning Exchange and could be a subcontractor to implement parts of the Energy Learning Exchange.

Sincerely,

[Signature]

David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies

An equal opportunity/affirmative action university encouraging diversity
David G. Loomis  
Illinois State University  
Department of Economics  
Campus Box 4200  
Normal, IL 61790-4200  
(309) 438-7979  
dloomis@ilstu.edu

Education


Bachelor of Arts, Mathematics and Honors Economics, Temple University, Magna Cum Laude, May 1985.

Experience

1996-present Illinois State University, Normal, IL  
Full Professor – Department of Economics (2010-present)  
Associate Professor - Department of Economics (2002-2009)  
Assistant Professor - Department of Economics (1996-2002)

• Supervised as many as 5 graduate students in research projects each semester.
• Served on numerous departmental committees.

1997-present Institute for Regulatory Policy Studies, Normal, IL  
Executive Director (2005-present)  
Co-Director (1997-2005)

• Grew contributing membership from 5 companies to 16 organizations.
• Doubled the number of workshop/training events annually.
• Supervised 2 Directors, Administrative Staff and internship program.
• Developed and implemented state-level workshops concerning regulatory issues related to the electric, natural gas, and telecommunications industries.

2006-present Illinois Wind Working Group, Normal, IL  
Director

• Founded the organization and grew the organizing committee to over 200 key wind stakeholders
• Organized annual wind energy conference with over 400 attendees
• Organized strategic conferences to address critical wind energy issues
• Initiated monthly conference calls to stakeholders
• Devised organizational structure and bylaws
Experience (cont’d)

2007-present Center for Renewable Energy, Normal, IL
Director
- Created founding document approved by the Illinois State University Board of Trustees and Illinois Board of Higher Education.
- Secured over $150,000 in funding from private companies.
- Hired and supervised 4 professional staff members and supervised 3 faculty members as Associate Directors.
- Reviewed renewable energy manufacturing grant applications for Illinois Department of Commerce and Economic Opportunity for a $30 million program.
- Created technical “Due Diligence” documents for the Illinois Finance Authority loan program for wind farm projects in Illinois.

1997-2002 International Communications Forecasting Conference
Chair
- Expanded Planning Committee with representatives from over 18 different international companies and delivered high quality conference attracting over 500 people over 4 years.

Economist - Business Research
- Wrote and taught Applied Business Forecasting multimedia course.
- Developed and documented 25 econometric demand models that were used in regulatory filings.
- Provided statistical and analytic support to regulatory costing studies.
- Served as subject matter expert in switched and special access.
- Administered $4 million budget including $1.8 million consulting budget.

External Affiliations

Great Lakes Wind Collaborative – Steering Committee and Chair, Economic Development Workgroup

State Energy Sector Partnership – Board Member

Center for Emerging Entrepreneurs – Vice Chairman, Board of Advisors

Midwest Solar Training Network Solar Advisory Group
Professional Awards and Memberships

2011 Midwestern Regional Wind Advocacy Award from the Department of Energy's Wind Powering America presented at WindPower 2011

2009 Economics Department Scott M. Elliott Faculty Excellence Award – awarded to faculty who demonstrate excellence in teaching, research and service.

2009 Illinois State University Million Dollar Club – awarded to faculty who have over $1 million in grants through the university.


1999 Illinois State University Teaching Initiative Award


Professional Publications


Professional Publications (cont’d)


Professional Publications (cont’d)


Presentations


“Economic Impact of Wind Farms,” presented August 26, 2011 at the Illinois Department of Commerce and Economic Opportunity Peer Exchange, Peru, IL.

Presentations (cont’d)


“Building the Wind Turbine Supply Chain,” presented May 11, 2011 at the Supply Chain Growth Conference, Chicago, IL


“Overview of County Wind Farm Activity,” presented February 9, 2011 at the Illinois Wind Working Group Siting, Taxing and Zoning of Wind Farms, Normal, IL.


“Siting and Zoning in Illinois,” presented November 17, 2010 at the Wind Powering America Webinar.


Oral Testimony before the Illinois Senate Energy and Environment Committee, Senator Jacobs presiding, October, 28, 2010, Chicago, IL.


“Economic Impacts; Public Beliefs and Opinions,” presented with Matt Aldeman October 28, 2010 at the Illinois Association of Illinois County Zoning Officials Annual Seminar in Utica, IL.
Presentations (cont’d)


“Understanding the Economic Impact of Wind Energy in Illinois,” presented September 20, 2010 at the Third Annual Meeting of the Great Lakes Wind Collaborative in Cleveland, OH.

“Economic Impact of Wind Energy in Illinois,” presented July 28, 2010 at the Livingston County Zoning Board of Appeals Hearing in Pontiac, IL.


“Economics of Wind Energy,” presented May 19, 2010 at the U.S. Green Building Council meeting in Chicago, IL.

“Economic Costs and Benefits of Wind Energy,” presented May 7, 2010 at the Rockford Area Realtors Association meeting in Rockford, IL.

“Forecasting: A Primer for the Small Business Entrepreneur,” presented with James E. Cox, Jr. April 14, 2010 at the Allied Academies’ Spring International Conference in New Orleans, LA.
Presentations (cont’d)


“Green Collar Jobs,” invited presentation October 14, 2009 at the 2009 Workforce Forum in Peoria, IL.

“Economic Impact of Wind Energy in Illinois,” presented August 11, 2009 at the AgriEnergy Conference in Champaign, IL.


“Wind Energy,” presented June 11, 2009 at State Farm Insurance Lunch ‘n Learn in Bloomington, IL.


Presentations (cont’d)


“Wind Energy 101,” presented December 16, 2008 at the Landowner’s Forum in Monmouth, Illinois; January 23, 2009 in Manito, IL; February 13, 2009 in Champaign, IL and Pontiac, IL; March 16, 2009 in Monmouth, IL; June 15, 2009 in Jacksonville, IL; October 7, 2009 in Chicago, IL; October 7, in Lemont, IL; November 9, 2009 in Ottawa, IL; December 9, 2009 in Pontiac, IL.


“Wind Energy: Is It Right For Illinois?” presented October 10, 2007 to DeKalb County Farm Bureau.

“Dollars and Sense: The Pros and Cons of Renewable Fuel,” presented October 18, 2006 at Illinois State University Faculty Lecture Series.


“Broadband Access in Illinois,” presented November 17, 2005 at the University of Illinois’ Connecting the e to Rural Illinois.

“Electricity, Natural Gas and Telecommunications,” presented November 7, 2005 at Illinois Wesleyan University.
Presentations (cont’d)

“Improving Forecasting Through Textbooks – A 25 Year Review,” with James E. Cox, Jr., presented June 14, 2005 at the 25th International Symposium on Forecasting.

“Telecommunications Demand Forecasting with Intermodal Competition, with Christopher Swann, presented April 2, 2004 at the Telecommunications Systems Management Conference 2004.

Wind Energy at Illinois State University” presented March 4, 2004 at University of Illinois' Urban Planning Institute.


“Lectora Versus Presenter: Student and Instructor Reactions,” presented March 26, 2003 at the Illinois State University Conference on Teaching with Technology.

“Intermodal Competition in Local Exchange Markets,” with Christopher Swann, presented June 26, 2002 at the 20th Annual International Communications Forecasting Conference.


“Resources for Forecasters,” presented September 28, 2000 at the 18th Annual International International Communications Forecasting Conference, Seattle, WA.

“Forecasting Challenges for U.S. Telecommunications with Local Competition,” presented June 28, 1999 at the 19th International Symposium on Forecasting.

“Acceptance of Forecasting Principles in Forecasting Textbooks,” presented June 28, 1999 at the 19th International Symposium on Forecasting.

“Forecasting Challenges for Telecommunications With Local Competition,” presented June 17, 1999 at the 17th Annual International International Communications Forecasting Conference.
Presentations (cont’d)

“Measures of Market Competitiveness in Deregulating Industries,” with Eric Malm, presented May 28, 1999 at the 18th Annual Advanced Workshop on Regulation and Competition.


Grants


Grants (cont’d)


“Petco Resource Assessment,” with Matt Aldeman, Petco Petroleum Co., April, 2010 amended August 2010 $34,000; original amount $18,000.


“Wind Turbine Supply Chain Study,” with J. Lon Carlson and James E. Payne, Illinois Department of Commerce and Economic Opportunity, Award Number 09-021003, April 2009, $125,000.

Grants (cont’d)


“Wind Turbine Installation at Illinois State University Farm,” with Doug Kingman and David Kennell, Illinois Clean Energy Community Foundation (peer-reviewed), May, 2004, $500,000.


“Distance Learning Technology Program,” Illinois State University Faculty Technology Support Services, Summer 2002, $3,000.

“Providing an Understanding of Telecommunications Technology By Incorporating Multimedia into Economics 235,” Instructional Technology Development Grant (peer-reviewed), January 15, 2001, $1,400.

“Using Real Presenter to create a virtual tour of GTE’s Central Office,” with Jack Chizmar, Instructional Technology Literacy Mentoring Project Grant (peer-reviewed), January 15, 2001, $1,000.

“An Empirical Study of Telecommunications Industry Forecasting Practices,” with James E. Cox, College of Business University Research Grant (peer-reviewed), Summer, 1999, $6,000.

“Ownership Form and the Efficiency of Electric Utilities: A Meta-Analytic Review” with L. Dean Hiebert, Institute for Regulatory Policy Studies research grant (peer-reviewed), August 1998, $6,000.

Total Grants: $3,974,855
External Funding

Corporate Funding for Institute for Regulatory Policy Studies, Alliance Pipeline ($7,500); Aqua Illinois ($7,500); AT&T ($7,500); Commonwealth Edison ($7,500); Constellation NewEnergy ($7,500); Illinois American Water ($7,500); ITC Holdings ($7,500); Midwest Generation ($7,500); MidWest ISO ($7,500); NICOR Energy ($7,500); People Gas Light and Coke ($7,500); PJM Interconnect ($7,500); Fiscal Year 2011, $90,000 total.

Corporate Funding for Center for Renewable Energy, Calendar Year 2010, $50,000.

Corporate Funding for Illinois Wind Working Group, Calendar Year 2010, $49,000.

Workshop Surplus for Institute for Regulatory Policy Studies, with Lon Carlson, Fiscal Year 2010, $17,759.

Corporate Funding for Institute for Regulatory Policy Studies, Alliance Pipeline ($7,500); Ameren ($7,500); AT&T ($7,500); Commonwealth Edison ($7,500); Constellation NewEnergy ($7,500); ITC Holdings ($7,500); Midwest Generation ($7,500); MidWest ISO ($7,500); NICOR Energy ($7,500); People Gas Light and Coke ($7,500); PJM Interconnect ($7,500); Fiscal Year 2010, $82,500 total.

Corporate Funding for Illinois Wind Working Group, Calendar Year 2009, $57,140.

Workshop Surplus for Institute for Regulatory Policy Studies, with Lon Carlson, Fiscal Year 2009, $21,988.

Corporate Funding for Institute for Regulatory Policy Studies, Alliance Pipeline ($7,500); Ameren ($7,500); AT&T ($7,500); Commonwealth Edison ($7,500); Constellation NewEnergy ($7,500); MidAmerican Energy ($7,500); Midwest Generation ($7,500); MidWest ISO ($7,500); NICOR Energy ($7,500); People Gas Light and Coke ($7,500); PJM Interconnect ($7,500); Fiscal Year 2009, $82,500 total.

Corporate Funding for Center for Renewable Energy, Calendar Year 2008, $157,500.

Corporate Funding for Illinois Wind Working Group, Calendar Year 2008, $38,500.

External Funding (cont’d)

Corporate Funding for *Institute for Regulatory Policy Studies*, Alliance Pipeline ($5,000); Ameren ($5,000); AT&T ($5,000); Commonwealth Edison ($5,000); Constellation NewEnergy ($5,000); MidAmerican Energy ($5,000); Midwest Generation ($5,000); Midwest ISO ($5,000); NICOR Energy ($5,000); Peabody Energy ($5,000); People Gas Light and Coke ($5,000); PJM Interconnect ($5,000); Fiscal Year 2008, $60,000 total.

Corporate Funding for *Illinois Wind Working Group*, Calendar Year 2007, $16,250.


Corporate Funding for *Institute for Regulatory Policy Studies*, AARP ($3,000), Alliance Pipeline ($5,000), Ameren ($5,000); Citizens Utility Board ($5,000); Commonwealth Edison ($5,000); Constellation NewEnergy ($5,000); MidAmerican Energy ($5,000); Midwest Generation ($5,000); Midwest ISO ($5,000); NICOR Energy ($5,000); Peabody Energy ($5,000); People Gas Light and Coke ($5,000); PJM Interconnect ($5,000); SBC ($5,000); Verizon ($5,000); Fiscal Year 2007, $73,000 total.


Corporate Funding for *Institute for Regulatory Policy Studies*, AARP ($1,500), Alliance Pipeline ($2,500), Ameren ($5,000); Citizens Utility Board ($5,000); Commonwealth Edison ($5,000); Constellation NewEnergy ($5,000); DTE Energy ($5,000); MidAmerican Energy ($5,000); Midwest Generation ($5,000); Midwest ISO ($5,000); NICOR Energy ($5,000); Peabody Energy ($2,500); People Gas Light and Coke ($5,000); PJM Interconnect ($5,000); SBC ($5,000); Verizon ($5,000); Fiscal Year 2006, $71,500 total.

Workshop Surplus for *Institute for Regulatory Policy Studies*, with L. Dean Hiebert, Fiscal Year 2005, $12,916.

Corporate Funding for *Institute for Regulatory Policy Studies*, with L. Dean Hiebert, AmerenCIPS ($5,000), Citizens Utility Board ($5,000); Commonwealth Edison ($5,000); Constellation NewEnergy ($5,000); Illinois Power ($5,000); MidAmerican Energy ($5,000); Midwest Generation ($5,000); Midwest ISO ($5,000); NICOR Energy ($5,000); People Gas Light and Coke ($5,000); PJM Interconnect ($5,000); SBC ($2,500); Verizon ($2,500); Fiscal Year 2005, $60,000 total.
External Funding (cont’d)


Corporate Funding for Institute for Regulatory Policy Studies, with L. Dean Hiebert, AmerenCIPS ($5,000); Commonwealth Edison ($5,000); Constellation NewEnergy ($5,000); Illinois Power ($5,000); MidAmerican Energy ($5,000); Midwest Generation ($5,000); NICOR Energy ($5,000); People Gas Light and Coke ($5,000); PJM Interconnect ($5,000); Fiscal Year 2004, $45,000 total.

Workshop Surplus for Institute for Regulatory Policy Studies, with L. Dean Hiebert, Fiscal Year 2003, $8,300.

Corporate Funding for Institute for Regulatory Policy Studies, with L. Dean Hiebert, AmerenCIPS ($5,000); AT&T ($2,500); Commonwealth Edison ($5,000); Illinois Power ($5,000); MidAmerican Energy ($5,000); NICOR Energy ($5,000); People Gas Light and Coke ($5,000); Fiscal Year 2003, $32,500 total.

Workshop Surplus for Institute for Regulatory Policy Studies, with L. Dean Hiebert, Calendar Year 2002, $15,700.

Corporate Funding for Institute for Regulatory Policy Studies, with L. Dean Hiebert, AmerenCIPS ($2,500); AT&T ($5,000); Commonwealth Edison ($2,500); Illinois Power ($2,500); MidAmerican Energy ($2,500); NICOR Energy ($2,500); People Gas Light and Coke ($2,500); Calendar Year 2002, $17,500 total.

Corporate Funding for International Communications Forecasting Conference, National Economic Research Associates ($10,000); Taylor Nelson Sofres Telecoms ($10,000); Calendar Year 2002, $20,000 total

Corporate Funding for Institute for Regulatory Policy Studies, with L. Dean Hiebert, AmerenCIPS ($5,000); AT&T ($5,000); Commonwealth Edison ($5,000); Illinois Power ($5,000); MidAmerican Energy ($5,000); NICOR Energy ($5,000); People Gas Light and Coke ($5,000); Calendar Year 2001, $35,000 total.

Workshop Surplus for Institute for Regulatory Policy Studies, with L. Dean Hiebert, Calendar Year 2001, $19,400.

Corporate Funding for International Communications Forecasting Conference, National Economic Research Associates ($10,000); Taylor Nelson Sofres Telecoms ($10,000); SAS Institute ($10,000); Calendar Year 2001, $30,000 total.
External Funding (cont’d)

Corporate Funding for Institute for Regulatory Policy Studies, with L. Dean Hiebert, AmerenCIPS ($5,000); AT&T ($5,000); Commonwealth Edison ($5,000); Illinois Power ($5,000); MidAmerican Energy ($5,000); NICOR Energy ($5,000); People Gas Light and Coke ($5,000); Calendar Year 2000, $35,000 total.

Workshop Surplus for Institute for Regulatory Policy Studies, with L. Dean Hiebert, Calendar Year 2000, $20,270.

Corporate Funding for International Communications Forecasting Conference, National Economic Research Associates ($10,000); Taylor Nelson Sofres Telecoms ($10,000); Calendar Year 2000, $20,000 total.

Corporate Funding for Institute for Regulatory Policy Studies, with L. Dean Hiebert, AmerenCIPS ($5,000); AT&T ($5,000); Commonwealth Edison ($5,000); Illinois Power ($5,000); MidAmerican Energy ($5,000); NICOR Energy ($5,000); People Gas Light and Coke ($5,000); Calendar Year 1999, $35,000 total.

Workshop Surplus for Institute for Regulatory Policy Studies, with L. Dean Hiebert, Calendar Year 1999, $10,520.

Corporate Funding for International Communications Forecasting Conference, National Economic Research Associates ($10,000); PNR Associates ($10,000); Calendar Year 1999, $20,000 total.

Corporate Funding for Institute for Regulatory Policy Studies, with L. Dean Hiebert, AmerenCIPS ($5,000); CILCO ($5,000); Commonwealth Edison ($5,000); Illinois Power ($5,000); MidAmerican Energy ($5,000); People Gas Light and Coke ($5,000); Calendar Year 1998, $30,000 total.

Workshop Surplus for Institute for Regulatory Policy Studies, with L. Dean Hiebert, Calendar Year 1998, $44,334.

Corporate Funding for International Communications Forecasting Conference, National Economic Research Associates ($10,000); PNR Associates ($10,000); Calendar Year 1998, $20,000 total.

Corporate Funding for Institute for Regulatory Policy Studies, with L. Dean Hiebert, AmerenCIPS ($5,000); CILCO ($5,000); Commonwealth Edison ($5,000); Illinois Power ($5,000); MidAmerican Energy ($5,000); People Gas Light and Coke ($5,000); Calendar Year 1997, $30,000 total.

Workshop Surplus for Institute for Regulatory Policy Studies, with L. Dean Hiebert, Calendar Year 1997, $19,717.

Total External Funding: $1,535,561
March 13, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Illinois State University, Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to collaborate on creating the new Illinois Pathways Energy Learning Exchange, which my colleagues and I at the Illinois Institute for Rural Affairs (IIRA) at Western Illinois University are pleased to accept.

Development of a knowledgeable and capable workforce with the skills to succeed in tomorrow’s energy industry is a top priority for our state, and we believe the Energy Learning Exchange can support this goal by engaging and exciting students about renewable energy. We look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

As the state’s designated academic clearinghouse on rural development research, outreach, and policy, IIRA works through its Value-Added Sustainable Development Center to leverage opportunities in agriculture and renewable energy to increase the prosperity and vitality of rural communities. We play a key leadership role in the Illinois Biomass Working Group, a public-private collaboration to accelerate development of sustainable, profitable biomass energy. Our state wind resource assessment program provides site specific data at no cost for community wind site assessments. And with the ISU Center for Renewable Energy we administer the Illinois Wind for Schools program to incorporate wind energy into classrooms across Illinois.

As part of the Energy Learning Exchange, my staff and I will serve as subject matter experts in biomass energy, wind energy, and other dimensions of renewable energy and we will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Fred Iutzi, MS
Program Manager, Value-Added Sustainable Development Center
March 12, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The Utility Workers Local 18007 and the Utility Workers Military Assistance Program is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

The Utility Workers Local 18007 is currently engaged in a twenty year infrastructure project which is inclusive to rebuilding of the aging infrastructure throughout the city of Chicago. As the most prominent energy company in Chicago we anticipate many rewards in partnering with the Energy Learning Exchange and will expand the best practices of this exchange to our Utility Workers Military Assistance program affiliates. The Utility Workers Military Assistance Program looks forward to development and efforts that will better advance and transition our active military, reserve and guard as well as the veteran community in workforce and training opportunities.

As Business Manager of Utility Workers 18007 I look forward to expanding on resources and efforts with the Energy Learning Exchange as well as identifying these efforts to our partnering
labor and military communities on any extended efforts defined by the Energy Learning Exchange as we welcome the opportunity to participate and engage on ongoing efforts.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of Recycled and Recyclable Building Materials and Green Building Products as well as do my best to educate the veteran and labor community on any extended efforts, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

[Signature]

Richard J. Passarelli, Business Manager
March 14, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

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Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The University of Illinois at Chicago is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

The Summer Institute on Sustainability and Energy (SISE) at the University of Illinois at Chicago offers a new concept in energy and sustainability education by providing a broad exposure to interdisciplinary themes of sustainable energy to advanced undergraduate and graduate level students. SISE recognizes that only by engaging future leaders in science, technology, behavior, policy, and urban planning will we be able to approach these challenges and solutions systematically. This Institute educates future decision makers on energy and environmental sustainability through interdisciplinary lectures, panel discussions, tours of clean energy and environmental installations, and group projects addressing clean energy and environmental challenges. Experts from universities, government and business present lectures and lead discussions in energy research and development, policy, planning and entrepreneurship. Participants of the Institute achieve a balanced overview of the energy and sustainability challenges and potential solutions, the economic and social barriers to implementation and the policy, planning and entrepreneurial initiatives needed to overcome them. SISE programs rotate themes such as foreign energy dependency, transportation, renewable energy technologies, and water and energy in the context of national and world current events. The SISE Advisory Board comprises representatives of the University of Illinois at Chicago, and its partner institutions Northwestern, Illinois Institute of Technology, University of Chicago, University of Illinois at Urbana-Champaign, Argonne, and Clean Energy Trust. The Board not only critiques SISE vision and plans, but also suggests new cooperative and collaborative activities.
March 14, 2012

Dr. David G. Loomis, Professor of Economics  
Director, Center for Renewable Energy  
Executive Director, Institute for Regulatory Policy Studies  
Illinois State University  
Campus Box 4200  
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The University of Illinois at Chicago is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

The Summer Institute on Sustainability and Energy (SISE) at the University of Illinois at Chicago offers a new concept in energy and sustainability education by providing a broad exposure to interdisciplinary themes of sustainable energy to advanced undergraduate and graduate level students. SISE recognizes that only by engaging future leaders in science, technology, behavior, policy, and urban planning will we be able to approach these challenges and solutions systematically. This Institute educates future decision makers on energy and environmental sustainability through interdisciplinary lectures, panel discussions, tours of clean energy and environmental installations, and group projects addressing clean energy and environmental challenges. Experts from universities, government and business present lectures and lead discussions in energy research and development, policy, planning and entrepreneurship. Participants of the Institute achieve a balanced overview of the energy and sustainability challenges and potential solutions, the economic and social barriers to implementation and the policy, planning and entrepreneurial initiatives needed to overcome them. SISE programs rotate themes such as foreign energy dependency, transportation, renewable energy technologies, and water and energy in the context of national and world current events. The SISE Advisory Board comprises representatives of the University of Illinois at Chicago, and its partner institutions Northwestern, Illinois Institute of Technology, University of Chicago, University of Illinois at Urbana-Champaign, Argonne, and Clean Energy Trust. The Board not only critiques SISE vision and plans, but also suggests new cooperative and collaborative activities.
developing Chicago and Illinois as centers and leaders of sustainable energy science, technology, policy and entrepreneurship.

In collaboration with University of Illinois at Urbana-Champaign, we will also contribute to workforce development training and higher level business thinking about energy through the creation of one or two day training modules for presentation to the business community. Coordination of the industry consortium will be crucial to creating a workforce development model to address the need for appropriately trained, energy-related employees. These training modules will draw upon the extensive expertise of our faculty and other experts in the field, whose ideas and work add to current energy knowledge.

As Distinguished Professor of Physics, Electrical, and Mechanical Engineering at UIC and Senior Scientist and Distinguished Fellow in the Materials Science Division at Argonne National Laboratories, I have won numerous awards, including the Kammerlingh Onnes Prize in 2003 for my work on the physics of vortices in high temperature superconductors, University of Chicago Award for Distinguished Performance at Argonne (twice), and the U.S. Department of Energy’s Award for Outstanding Scientific Accomplishment in Solid State Physics (four times). I also have an R&D 100 Award for my pioneering development of Magnetic Flux Imaging Systems. I am a Fellow of the American Physical Society, a charter member of ISI’s Highly Cited Researchers in Physics, and a Member of the U.S. National Academy of Sciences. I have served as Chairman of the Division of Condensed Matter of the American Physical Society, as a Founding Editor of the scientific journal Physica C, as Divisional Associate Editor of Physical Review Letters, as Chair of the Advisory Committee for the National Magnet Laboratory in Tallahassee, Florida, and as Editor of several review issues of Physica C devoted to superconductivity. I have published more than 400 papers in leading scientific journals, collected over 15,000 career citations, and given approximately 100 invited talks at national and international scientific conferences.

My research interests include materials science, sustainable energy, nanoscale superconductors and magnets, vortex matter in superconductors, and highly correlated electrons in metals. I have led workshops for the Department of Energy on hydrogen, solar energy, superconductivity, materials under extreme environments, basic science for energy technology, and computational materials and chemistry for economic competitiveness. I have also co-chaired the Undersecretary of Energy’s assessment of DOE’s Applied Energy Programs, and testified before the U.S. Congress on the hydrogen economy and on meeting sustainable energy challenges.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of sustainable energy, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

George W. Crabtree
March 12, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dr. John Abelson, Professor of Material Science and Engineering
Chair, Illinois Clean Energy Education Initiative
University of Illinois at Urbana-Champaign
1-109 Engineering Science Building
1101 West Springfield Ave.
Urbana, IL 61801

Dear Drs. Loomis and Abelson:

Thank you for the invitation to work with Illinois State University, the University of Illinois, and others on the creation of the new Illinois Pathways Energy Learning Exchange, which is a STEM proposal under the P-20 Initiative of the Illinois Department of Commerce and Economic Opportunity. I would be pleased to help create a balanced and exciting Energy Learning Exchange by reaching out to labor leaders across the state for their participation.

As a University of Illinois professor, teaching in the School of Labor and Employment Relations who has worked extensively with labor leaders in this state, I am deeply aware of labor’s commitment to the development of a knowledgeable and capable workforce that has the skills to succeed in today’s and tomorrow’s green jobs. Unions representing plumbers, carpenters, electricians, laborers, operating engineers and steelworkers, just to name a few, have all embraced green technologies and I would be willing to help bring them together to support the Energy Learning Exchange. I am confident that the Exchange can serve as an effective talent pipeline, enabling the kind of well-trained workforce that is critical to the continued success in our economy. Therefore, I look forward to the opportunity to work closely with Illinois State University, my colleagues at the University of Illinois and other members of the Illinois energy industry to explore ways that the state’s labor movement can play a meaningful educational role on energy-related curriculum and related matters.
The labor movement is, of course, connected to green jobs in many ways – in construction, energy generation, energy distribution, energy conservation, and production of energy-related equipment (turbines, solar panels, biogen, etc.). Labor’s contributions to the proposed Energy Learning Exchange would build on its long-standing relationship with the Labor Education Programs at the School of Labor and Employment Relations at the University of Illinois, as well as its broader commitment to energy learning in society.

As a part of the Energy Learning Exchange, I look forward to reaching out to labor leaders to help to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Robert Bruno  
Director of Labor Education Programs  
Professor of Labor and Employment Relations  
School of Labor and Employment Relations  
University of Illinois  
The Rice Building, Suite #110  
815 W. VanBuren  
Chicago, Illinois 60607  
PHONE: 312-996-2491  
FAX: 312-413-2997
March 14, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I am writing to confirm that the University of Illinois at Urbana-Champaign would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The University of Illinois at Urbana-Champaign is committed to the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school and community college students.

We will draw upon the extensive expertise of our faculty who offer energy and closely related courses. These courses are the backbone of our educational programs in energy, which are the Professional Science Masters degree in Bioenergy, the Graduate Certificate in Energy and Sustainability Engineering, the bachelors in the School of Earth, Society and the Environment, and the proposed Master’s degree in Energy Systems. Information on these programs is available via the site http://EaSE.Illinois.edu.
Specifically, we can make available to the State Learning Exchange the following educational products that we have already developed:

- A 15-part, online seminar series in Energy and Sustainability Engineering.
- An online course, Renewable & Alternative Energy, for non-science majors.

We will also offer the following educational products that are currently under development:

- An online course, Introduction to Energy, for science and engineering majors.
- A teacher training summer workshop on clean energy.
- Energy systems learning software for students in grade 7 through college.

In addition:

- Business Innovation Services will contribute to workforce development training and coordination of the industry consortium.
- The five newly-named Clean Energy Education Fellows (UI graduate students) will engage in K-12 and online energy education projects.
- College students will be invited to participate in our annual Clean Energy Education Workshop.

We look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Deba Dutta
Dean, Graduate College
Edward William and Jane Marr Gutgsell Professor
March 9, 2012

Ms. Sherri Sullivan  
State Purchasing Officer  
Fiscal and Procurement Division W-380  
Illinois State Board of Education  
100 North First Street  
Springfield, IL  62777-0001

Re: STEM Learning Exchange for Energy Cluster

Dear Ms. Sullivan

The Workforce Boards of Metropolitan Chicago are pleased to submit this letter in support of the Center for Renewable Energy’s application for the STEM Learning Exchange. The Center for Renewable Energy is uniquely qualified to serve as the lead in development of the Learning Exchange for the energy cluster.

The Workforce Boards of Metropolitan Chicago is a consortium of eight Workforce Boards covering the City of Chicago, Northern Cook County, South and West Suburban Cook County, DuPage County, Kane/DeKalb/Kendall, Lake County, McHenry County and Will County. The Workforce Boards are charged with wide-ranging policy and planning responsibilities for workforce development within their communities. As leaders in workforce development, we recognize the value of the STEM Learning Exchange in developing a pipeline of skilled workers and are in the best position to be engaged in and contribute to the planning and implementation process.

The Workforce Boards of Metropolitan Chicago – collectively and individually – are committed to working with the Center for Renewable Energy. The Workforce Boards can assist the Center in making connections with local employers and other key stakeholders in the workforce development system. The eight Workforce Boards have extensive experience with regional and local sector based initiatives that have focused on disseminating career information to students and job seekers, developing education and training programs that address the need for high demand skills, and increasing the pipeline of skilled workers for high skill occupations. As a
result of this experience, the Workforce Boards have a unique perspective in terms of how the Learning Exchange can contribute to the development of skilled workers.

Sincerely,

Gary Gibson, Manager
Lake County Workforce Investment Board

Ray Bentley, Board Liaison
Cook County Workforce Investment Board

Pat Fera, Manager
Workforce Investment Board of Will County

Jeffery Poynter, Director
McHenry County Workforce Investment Board

Tracy McDonnell, Executive Director
River Valley Workforce Investment Board

Jennifer Stasch, Executive Director
The Workforce Board of Northern Cook County

Mary Beth Marshall, Executive Director
DuPage Workforce Board
March 14, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Teamsters Local 786 and the Teamsters Military Assistance program is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

Teamsters Local 786 is the only local in the state of Illinois that houses jurisdiction of Recycled and Recyclable Building Materials and Green Building Products. The Teamsters Military Assistance Program will educate and engage the military partners that we have been working with over the past five years to better advance and transition our active military, reserve and guard as well as the veteran community in workforce and training opportunities.

As the President of Teamsters Local 786, I and our national consultant Elizabeth Belcaster will provide and educate the partnering labor and military communities on any extended efforts.
defined by the Energy Learning Exchange as we welcome the opportunity to participate and engage on ongoing efforts.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of Recycled and Recyclable Building Materials and Green Building Products as well as do my best to educate the veteran and labor community on any extended efforts, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Michael Yauger
President
February 23, 2012

Dr. David G. Loomis, Professor of Economics  
Director, Center for Renewable Energy  
Executive Director, Institute for Regulatory Policy Studies  
Illinois State University Campus Box 4200  
Normal, IL 61790  

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

We at Sustainable Strategies are very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

Please see attached for bio of our company.

As a part of the Energy Learning Exchange, We will serve as a subject matter expert in the area of wind, PV Solar, and PV Solar Thermal renewable energy. We will ensure that all of the relevant principles are accurately portrayed. We look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

This is a great initiative and look forward to supporting the effort.

Best Regards,

Bob Belick  
cc: Chris Manny; Sustainable Strategies
SUSTAINABLE STRATEGIES
RENEWABLE ENERGY ENGAGEMENT
FEBRUARY, 2012
http://www.sustainablestrategiesnow.com

- Write blog addressing policy, events and opinions for Sustainable Strategies: http://blog.sustainablestrategiesnow.com/
- Developed strategic business alliances with wind, PV and PV Solar Thermal installation companies to offer clients reliable, credible products and services
- Presenter to the Village of Oswego, IL: Wind Energy
- Write Sustainability and Energy articles for Chicago Tribune local editions highlighting community events and developments a link for an example follows: http://triblocal.com/lincolnshire/community/galleries/2011/01/public-private-effort-for-renewable-energy-at-stevenson-high-school/
- Presenter of small wind technologies at the Illinois American Planning Association (APA) State Conference (Municipal Planners)
- Collaborated with Kane County, Illinois to develop county wind ordinance
- Presenter and panel member of the DesignFirst: The Better Home Energy Week
- Working with Director of Sustainability for Stevenson High School (Lincolnshire, IL) a LEED Gold EB High School on renewable energy educational curricula and technology implementation. Modeling for sustainability educational curricula
- Presented Elgin Community College (Illinois) students and staff on renewable energy
- Exhibited renewable energy at The City of Elgin, IL Green Expo
- Exhibited and collaborated on Kane County, IL Energy Forum and 25 year sustainability plan
- Member of the City of Elgin, IL Sustainability and Alternative Energy committee to develop sustainability plan for the City
- Exhibited at Farm Technology Days (Marshfield, WI) education and awareness of renewable energy technologies to agriculture
- Exhibited and presented at Illinois Renewable Energy Fair on “Remanufactured Wind Turbines”
- Collaborated with the City of Riverwoods, IL in developing wind ordinance
- Presented at Fox Valley Career Center (Kaneland High School: Maple Park, Illinois) for students and staff on renewable energy technologies
- Developing student engagement at Northern Illinois University on renewable energy project for business structuring and technology implementation
- Engaged by Surity Wind Development (Pike County, Illinois) for marketing wind energy to educational community in Illinois
- Presented at John A. Logan College (Carterville, Illinois) on Renewable Energy
- Panel member on first Midwest Energy and Environmental Summit at Adlai Stevenson High School (Lincolnshire, Illinois) in April, 2012
March 15, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The NCERC at SIUE is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

The NCERC is a non-profit research center on the SIUE campus. Our mission is to facilitate the commercialization of new technologies for producing biofuels more effectively. The Center’s clients receive validation and bioprocessing scale-up of technologies that enhance the economics and sustainability of renewable fuel production. Furthermore, the NCERC staff conducts research in areas of unmet need, by leading or participating in collaborative grant-funded projects. The facility also provides education and workforce development programs to train personnel to understand and succeed in the renewable fuels industry. The facility is the only one in the world that offers biofuels process classroom instruction, biofuels process computer-simulation training and a working pilot plant and laboratories for hands-on learning.
With state-of-the-art technology, the Center offers training and teaching opportunities to help equip the biofuels workforce of the future.

I have over 10 years of experience with biofuels research. At NCERC since 2009, I have thus far managed over 80 privately commissioned laboratory scale fermentation projects, and have been the project Manager on ten of the Client trials in the NCERC Pilot Plant as well as overseeing the lab portion of the eighteen pilot scale projects conducted since at the Center. Currently funded research in which I am listed as PI include two projects in cooperation with the USDA, one focusing on research on corn kernel fiber, and one on modified, low beta-glucan barley strains as well as an ongoing corn kernel fiber scale-up project funded by the ILDCEO, and a fiber digestibility study on behalf of the National Pork Board. I am also the Center’s technical liaison with the SIUE Professional Science Management Master’s degree tracks in both Biotechnology and Environmental Sciences. As such I have mentored 6 Master’s students since 2011 and created a class in biofuels I hope will be offered next Spring as part of the Biology graduate level curriculum. Prior to 2009, I worked on biodiesel and anaerobic digestion research, both in the United States and in Europe, and also created educational content for online college classes in environmental science and chemistry. I hold a Ph.D. in Chemistry from the University of Vermont and a BSc/MSc from the University of Calgary (Canada).

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of Bioenergy, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

[Signature]

Sabrina Trupia, Ph.D.
Asst. Director of Biological Research
National Corn to Ethanol Research Center
400 University Park Drive
Southern Illinois University Edwardsville
Edwardsville IL 62025
p: 618-659-6737 ext.242
f: 618-659-8762
www.ethanolresearch.com
March 13, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Southern Illinois University’s Coal Research Center is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

For more than three decades, Southern Illinois University Carbondale has maintained a substantial coal and energy research, education, and service program. The Coal Research Center was established in 1974 to stimulate and coordinate efforts to improve the efficiency of coal mining and coal use. Presently, it serves as a center of excellence for coal, energy, and environmental research. The Coal Research Center serves as an information clearinghouse for University researchers, assisting with proposals and reports, tracking external funding opportunities, and collecting and maintaining data pertinent to coal, energy, and environmental research.

Coal Research Center
http://www.crc.siue.edu
Mail Code 4623
Southern Illinois University Carbondale
406 W. Grand
Carbondale, Illinois 62901
618 | 536.5521 Fax: 618 | 453.7366
www.siue.edu
The Coal Research Center's primary mission is to identify and initiate new research areas, opportunities, and programs that facilitate the development of improved coal extraction and utilization methods. This mission is carried out through the initiation of new programs and approaches to research, community education, faculty development and support, scholarship, and service.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of coal and biomass gasification, liquid fuel production, flue and syngas cleanup, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

\[\text{[Signature]}\]

Tomasz S. Wiltowski
Interim Director
Professor, Department of Mechanical Engineering and Energy Processes
March 12, 2012
Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning exchange.

SEIU Local 73 and the Heroes to HealthCare Program are very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow's energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

SEIU represents the majority of healthcare and IT workforce community and Heroes to HealthCare is the underlining Veterans program that will assist in transitioning our veterans into those workforce communities.

As the Vice President of SEIU Local 73 we will extend the Energy Learning Exchange efforts to our partnering employers and affiliates as we welcome the opportunity to participate and engage in ongoing efforts.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of Technical workforce efforts and extended Healthcare green jobs as well I will do my best to educate the veteran and labor community on any extended efforts. I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Phil Martini
Vice President, SEIU Local 73
Robert M. Fletcher Company
12340 Ridge Ave
Palos Park, Illinois 60464

March 12, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Robert M. Fletcher Company is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow's energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

Robert M. Fletcher Company has twenty years’ experience in recycled materials as our mission is to utilize the by-products for beneficial reuse. Much of what we will accomplish will be inclusive to ongoing education on the resources these efforts support to the energy community.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of Recycled and Recyclable Building Materials and Green Building Products as well as do my best to educate the veteran and labor community on any extended efforts, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Robert M. Fletcher
March 15, 2012

Dr. David G. Loomis, Professor of Economics  
Director, Center for Renewable Energy  
Executive Director, Institute for Regulatory Policy Studies  
Illinois State University  
Campus Box 4200  
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Peoples Gas and North Shore Gas is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

Sincerely,

/s/ Thomas G. Aridas

Thomas G. Aridas  
Director of Regulatory Policy  
Peoples Gas & North Shore Gas
March 15, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

At Operation Green Jobs we are very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with kindergarten through high school students to offer encouragement and advice as they progress in their coursework.

Operation Green Jobs can make a significant contribution to your efforts. Founded in 2005, The Operation Green Jobs organization provides linkages to “green job” training and education to Veterans returning from Iraq and Afghanistan and offers them job and apprenticeship opportunities with partner corporations and trade Unions. Together our staff, advisory board, state agencies and corporate partners bring a depth and breadth of expertise in education, curriculum development, renewable energy and smart grid. (Please see attached bios).
As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of k – 20 education, smart grid and renewable energy. I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Melissa Gordon  
Executive Director  
bbOperation Green Jobsv  
847-494-1319
March 13, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. We would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The Initiative for Energy and Sustainability at Northwestern University is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

The Initiative for Sustainability and Energy at Northwestern was established in 2008 as an umbrella organization whose unique mission is to catalyze the development of transformational science, technology, education and policy for sustainability and energy. ISEN meets this challenge through interdisciplinary training, research, and local and global outreach. ISEN enjoys the strong leadership of two Northwestern faculty co-Directors as well as a Director of Education and Special Projects.

Mark Ratner is a materials chemist, whose work focuses on the interplay between molecular structure and molecular properties. This includes such aspects as molecular electronics, molecular optoelectronics, molecular systems design and biomolecular behavior, as well quantum and classical methodologies for understanding and predicting molecular structure and response. The major focus of his research for the last three decades has been the understanding of charge transfer and charge transport processes based on molecular structures, ranging from
nonadiabatic intramolecular behavior to aspects of molecular devices, including photovoltaics, conductive polymers, molecular transport junctions and molecular switches.

His professional history involves undergraduate work at Harvard, graduate work at Northwestern, postdoctoral work at Aarhus and Munich, and faculty positions at New York University and Northwestern. He is now Dumas University Professor at Northwestern and Co-Director of ISEN. He has very active international collaborations, particularly in Denmark, Israel and the Netherlands. He has been awarded the Feynman Prize, the Langmuir Award of the American Chemical Society, and is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the International Academy of Quantum Molecular Sciences, the Royal Danish Academy of Sciences and enjoys an annual canoe trip which puts all things back into perspective.

David Dunand is the James and Margie Krebs Professor of Materials Science and Engineering at Northwestern University. He does research on processing, structure and properties of lightweight metallic alloys, composites and foams. These new materials have uses from energy-efficient transportation and power generation to bio-medical implants. He has published over 180 journal articles and holds 8 patents. Prior to joining Northwestern University in 1991, he was on the faculty of the Massachusetts Institute of Technology, from which he also holds a Ph.D. degree.

He is a fellow of ASM-International (formerly the American Society for Metals) and received the 2009 Distinguished Structural Materials Scientist/Engineer Award from TMS (The Materials Society). As Co-Director of ISEN, he is involved with addressing these topics by expanding research, teaching and outreach in an interdisciplinary manner.

Brad Sageman joined the ISEN team as Director of Education and Special Projects in 2011. In this capacity, he directs ISEN's education development and curricular processes. Brad also chairs the ISEN Curriculum Committee and oversees the ISEN Cluster program, the development of an ISEN certificate program, the hiring of ISEN faculty and approval of ISEN courses.

Brad is an earth scientist with research interests in carbon cycling, climate change, and sustainable energy. His research, which has its foundation in understanding the relationship between geologic time and the accumulation of sedimentary rocks, is relevant to both the exploration and production of hydrocarbons (especially shale gas, a critical transition fuel to a low-carbon future), as well as the role of the carbon cycle as a natural source and sink of CO2 to the atmosphere.

Brad earned a B.S. in Biology from Denison University and completed his graduate work in Geological Science at the University of Colorado. He was awarded a Fulbright Scholarship during his graduate years, and joined the Northwestern faculty in 1992. In 1997 he was awarded the DuPont Young Professor award for research relating to unconventional hydrocarbon resources (gas shales), and in 2006 was elected Fellow of the Geological Society of America (GSA). In October of 2011, Brad chaired a NSF Science, Engineering and Education for Sustainability (SEES) workshop on Carbon Sequestration at the annual GSA meeting. He is a Professor and currently in his 7th year as Department Chair of Earth and Planetary Sciences in
the Weinberg College of Arts and Sciences. He is also the lead faculty member for ISEN 230 Climate Change and Sustainability: Political and Ethical Dimensions, an ISEN course offered each spring.

As a part of the Energy Learning Exchange, we will assist with identifying subject matter experts in energy affiliated with ISEN. We look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Mark A. Ratner
Lawrence B. Dunas Distinguished University Professor
ISEN Co-director

David C. Dunand
James N. and Margie Krebs Professor
Materials Science and Applied Science
ISEN Co-director

Brad Sageman
Chair, Earth and Planetary Sciences
ISEN Director of Education and Special Projects
Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Mainstream Renewable Power is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. As a global developer of wind and solar power projects, we recognise this will be critical to the continued success of our company. This kind of initiative reflects the approach we have taken in other markets and we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create and deploy a meaningful program.

I have 15 years’ experience in the energy industry, including 8 years in renewable energy with both BP and Mainstream Renewable Power. With a background of developing projects in a number of countries, I believe I could provide insight into perspectives and approaches to policy-making and project development across different markets, as well as the reality of project economics which was an area I specialised in for a while.

As a part of the Energy Learning Exchange, I would be happy to serve as a subject matter expert in the area of renewable power project development, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Matt Boss
Director, Midwest Development
US Mainstream Renewable Power
Kestrel Development Company  
1042 Gunderson Avenue  
Oak Park, Illinois 60304

February 29, 2012

Dr. David G. Loomis, Professor of Economics  
Director, Center for Renewable Energy  
Executive Director, Institute for Regulatory Policy Studies  
Illinois State University  
Campus Box 4200  
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Kestrel Development Company is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

Kestrel Development Company has been a global consulting firm since 2006, advising clients on renewable energy policy, markets and technology. We have been a Leader Consultant for The Gerson Lerman Group and also advise clients on developing manufacturing facilities or utility-scale power generation systems.

The President and Principal Consultant of Kestrel Development Company, Mark Burger, has been a lecturer, trainer and curriculum developer in renewable energy, working with organizations like the Illinois Solar Energy Association, Illinois State University, University of Illinois, Wright Community College and a host of other institutions.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of Renewable Energy Technology Electronic Textbook and related curricula, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.
Sincerely,

[Signature]

Mark Burger, President
Kestrel Development Company
708-267-7965
burgermkop@gmail.com
March 14, 2012

TO WHOM IT MAY CONCERN:

The Institute for Regulatory Policy Studies at Illinois State University is pleased to work on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and to create a balanced and exciting Energy Learning Exchange.

The Institute is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with other universities and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

Illinois State University has a long history in the education and development of teachers, and is at the forefront of a variety of industries related to renewable and clean energy technologies. Nearly one in eight Illinois teachers hold a degree from Illinois State University, and the University is one of the ten largest producers of teachers among American Association of Colleges for Teacher Education institutions. In addition, the Institute for Regulatory Policy Studies (IRPS) at Illinois State University will play a large role in the development of the Energy Learning Exchange. The mission of the Institute for Regulatory Policy Studies is to educate, communicate and conduct research on issues related to the electricity, natural gas and
telecommunications industries in Illinois and throughout the nation. The Institute is the state's leading energy and regulatory policy institution, and hosts two energy policy conferences in Springfield each year.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of Energy Economics and Public Policy and I will ensure that all of the relevant principles are accurately portrayed. To show my wide variety of energy-related experiences, I have attached my curriculum vita. I look forward to working with other universities and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

[Signature]

David G. Loomis
Executive Director, Institute for Regulatory Policy Studies
Professor of Economics, Illinois State University
February 28, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790-4200

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The Office of Energy Management is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

The Office of Energy Management, Illinois State University, is the University’s proponent for all matters related to energy procurement and conservation. This office manages the University’s heating and cooling plants that provide heated and conditioned air for 98 buildings and nearly 8 million square foot of space.

As the Director, Office of Energy Management, since 2001, I have worked hard to serve the University with efficient, reliable energy systems. During that time the square footage of the campus has increased 10% and yet we have been able to reduce the energy consumed by 20%. Certifications as a LEED Green Associate, Certified Energy Manager (CEM), Energy Auditor (CEA), and Energy Measurement and Verification Professional have been very helpful in providing leadership to the University in all matters related to energy management.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of energy management and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Ronald J. Kelley, CEM, CEA, LEED GA
Director

RJK/st

An equal opportunity/affirmative action university encouraging diversity
March 14, 2012

TO WHOM IT MAY CONCERN:

The Center for Renewable Energy at Illinois State University is pleased to work on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Institute for Regulatory Policy Studies and to create a balanced and exciting Energy Learning Exchange.

The Center for Renewable Energy is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with other universities and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

Illinois State University has a long history in the education and development of teachers, and is at the forefront of a variety of industries related to renewable and clean energy technologies. Nearly one in eight Illinois teachers hold a degree from Illinois State University, and the University is one of the ten largest producers of teachers among American Association of Colleges for Teacher Education institutions.

The Center for Renewable Energy at Illinois State University will take a leadership role in the creation of the Energy Learning Exchange. The Center for Renewable Energy serves to educate and support Renewable Energy undergraduate majors at the university, to provide information about renewable energy to the general public, and to support applied research concerning renewable energy at Illinois State and through collaborations with other institutions. The Center for Renewable Energy leads the implementation of the Illinois Wind for Schools program, in which faculty and staff work with high schools throughout Illinois to integrate energy and wind energy-related material into the classroom curriculum. The Center for Renewable Energy also serves as a sponsor for the Illinois Innovation Talent program, a Problem-Based Learning initiative in which students at nine Illinois partner schools are challenged to serve as consultants to recommend ways in which their school could be more energy efficient and implement...
sustainable forms of energy. The Center for Renewable Energy also leads the Illinois Wind Working Group and organizes a variety of training workshops, seminars and conferences each year on topics related to renewable energy.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of Renewable Energy, Energy Economics and Public Policy and I will ensure that all of the relevant principles are accurately portrayed. To show my wide variety of energy-related experiences, I have attached my curriculum vita. I look forward to working with other universities and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

[Signature]

David G. Loomis
Director, Center for Renewable Energy
Professor of Economics, Illinois State University
To: Illinois State Board of Education
From: Center for Mathematics Science and Technology, Illinois State University
Date: March 12, 2012

Subject: Letter of Support to Implement the Energy STEM Learning Exchange

I am writing to this memo to express the support of the Center for Mathematics, Science, and Technology at Illinois State University for the Center for Renewable Energy and its leading the design and implementation of the Energy STEM Learning Exchange through the Illinois Pathways Initiative.

We have been working with the Center for Renewable Energy for the past two months building a coalition of universities, colleges, industry organizations, utilities, and government workforce development entities. We believe that the addition of Energy to the Illinois Pathways Initiative was an inspired decision and that the role of Energy as a fundamental factor in economic and societal decision-making makes it vital for our future both in the short term and the long term.

Along the continuum of education, job training, technology development, industry, research, and policy, the STEM Learning Exchange Initiative has the potential to fundamentally transform the orientation of college education and career readiness for Illinois. I look forward to working with our Energy STEM Learning Exchange partners to create a new, innovative public-private education infrastructure.

If you have any questions please feel free to contact me.

Sincerely yours,

Willy Hunter
William Hunter
March 4, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Illinois Institute of Technology (IIT) is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of Research and Development at IIT. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

My name is Dr. Mohammad Shahidehpour and I am the Bodine Chair Professor in the Electrical and Computer Engineering Department and Director of the Robert W. Galvin Center for Electricity Innovation (Galvin Center) at IIT. I am currently the Principal Investigator of over $40 million projects on smart grid and sustainable energy development. I serve as the Editor-in-Chief of the IEEE Transactions on Smart Grid. I was the recipient of 2009 Honorary Doctorate from the Polytechnic University of Bucharest, 2008 IEEE/PES Best Transactions Paper Award, and 2007 IEEE Burke Hayes Award for my research on hydrokinetics. I am the author of 6 books and 400 papers on energy systems including a book published in 2003 on communication and control in electric power systems.

The Galvin Center has established IIT as a global leader in microgrids, smart grid technology, and sustainable energy. Galvin Center has become a leading advocate for the smart grid technological revolution, a pioneer in electricity delivery and infrastructure, and a sandbox for new research and innovations in the Chicago area. Galvin Center has grown in just three years to over 150 participating members from academia and industries worldwide and 50 PhD researchers and scholars in just three years.
As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of energy efficiency, sustainable energy development, energy reliability and security, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

[Signature]

(smith)
March 9, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The Illinois Green Economy Network (IGEN) is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

IGEN (www.igencc.org) was launched in 2008 as a president-led consortium dedicated to providing a platform for collaboration among all Illinois community colleges and their partners to establish sustainable best practices, promote energy demand reduction projects, and drive growth in the green economy. IGEN operates under an intergovernmental agreement to continuously leverage the strengths and contributions of individual colleges to benefit all colleges within the Illinois Community College System.

With financial support from the Illinois Governor’s Office, Illinois Department of Commerce and Economic Opportunity, and the U.S. Departments of Education, Energy and Labor, IGEN’s statewide collaboration is unique and yields extraordinary results. IGEN builds cooperative efforts among community college faculty, staff and students and our community partners to pilot green technologies, increase green campus initiatives related to sustainability, clean energy, energy conservation and efficiency, expand sustainability in the curriculum, grow green workforce training programs, and engage local communities in sustainability and energy use reduction initiatives. By combining the power of community colleges as credible education and training organizations with the power of the business sector to innovate and the ability of local communities to identify their individual needs, IGEN partnerships energize a new level of engagement and productivity in the green economy. IGEN builds the capacity of colleges to support sustainability practices
and the emerging green economy in local communities, prepare Illinois residents for the changing workforce, expand employment opportunities, improve human and environmental health, foster community engagement, and accelerate market competitiveness.

As Executive Director of IGEN, I work closely with Jerry Weber, College of Lake County President, Georgia Costello, Southwestern Illinois College President, and the IGEN Presidents Steering Committee to provide leadership and coordination for IGEN strategies and operations throughout the statewide network. I currently oversee three major grants related to the expansion and implementation of programs and services designed to address green campus initiatives, green workforce development, greening of curriculum, and green community outreach.

- A $2 million FY12 IL DCEO grant which supports 11 administrative staff, 20 college district Sustainability Centers, 4 regional Green Economy Centers, and provides seed funding to 19 college districts to continue IGEN programming and expansion.
- A three-year, $19.4 million US Department of Labor TAACCCT grant to develop the IGEN Career Pathways Consortium with 17 colleges to create and deliver more than 30 online-hybrid green job degree or certificate programs within the US Department of Energy’s NTER system, in collaboration with business and industry partners, universities and the Illinois Community College Board.
- A $2.5 million FY12 IL DCEO EEPS Aggregation grant to coordinate two complementary state-wide, cohesive programs:
  a. The Illinois Community College Targeted Energy Savings (ICCTES) program is an effort to achieve cost-effective energy-efficiency improvements through group energy equipment procurement by multiple colleges within the Illinois community college system. Energy-efficiency improvement projects will concentrate on a combination of energy saving measures in an attempt to deliver, collectively, a 10% reduction in electricity and 8% reduction in gas demand over a period of three years for participating colleges.
  b. The Illinois Community College Targeted Energy Management Training (ICCTEMT) program provides funding to participating colleges to identify, develop and implement multiple energy management job training opportunities through a variety of online and classroom educational workshops, professional development opportunities, technical assistance seminars, behavior change awareness campaigns, and energy conferences.

I hold a M.S. in Conservation Biology from Illinois State University and a B.A. in Anthropology from the University of Illinois, Urbana-Champaign. Currently, I serve as co-chair of the Governor’s Green Universities & Colleges Subcommittee and as vice-chair for the Illinois Association of Professional Energy Consultants.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area training and education of the energy workforce and deployment of energy technologies, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Julie Elzanati, Executive Director, Illinois Green Economy Network
c/o Heartland Community College
Normal, IL 61761
Phone: 309-268-8166
February 24, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The Illinois Energy Association is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our organization. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

The Illinois Energy Association was formed in 1994 to represent the state’s investor-owned electric and natural gas utilities in the public policy arena. The Energy Association is made up of four member companies who provide utility service for millions of Illinois citizens. The organization is active in governmental affairs, industry relations and public relations on behalf of the state’s energy industry. Our goal is to provide value to our member companies and to assist them in providing safe, reliable and affordable electricity and natural gas services to their customers.

I have an extensive background in energy policy matters, having served as both a state legislator and a state utility regulator in addition to my current role as head of the trade
association for the state's investor-owned utilities and electricity generators. I have been intimately involved in every major piece of energy legislation in Illinois for the past 19 years.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of energy policy legislation and regulation, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

James R. Monk

JRM:mn
February 29, 2012
Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

On behalf of the Illinois Chamber of Commerce, I would like to formally accept your invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. The Illinois Chamber of Commerce and our Energy Council is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry.

The Energy Council is made up of companies that transmit, transport and generate energy of all kinds, as well as businesses that supply those energy companies. We are trying to create an environment in Illinois where these companies can be successful and one key issue will be the availability of a skilled workforce.

We believe that the Energy Learning Exchange can help create a talent pipeline that will result in a well-trained workforce. Therefore, we look forward to the opportunity to work closely with Illinois State University, other institutions of higher education across the state, organizations of all kinds and other individual companies to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

As executive director of the Energy Council for the past four years, I’ve been educating and advocating on behalf of energy companies – working hard to ensure energy policy decisions are fact-based and attempting to raise public awareness on the challenges and opportunities associated with the energy industry locally, regionally and globally.

Though policy, economics and regulations make a huge difference to my members, without a trained workforce, nothing happens.
As a part of the Energy Learning Exchange, I will serve as a voice, sounding board and, when appropriate, a conduit to the thousands of companies the Chamber represents and the specific members of the Energy Council. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Tom Wolf
Executive Director, Energy Council
Illinois Chamber of Commerce
February 28, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Iberdrola Renewables is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow's energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

Iberdrola Renewables is part of Iberdrola, S.A., an energy pioneer with the largest renewable energy asset base of any company in the world – over 13,000 megawatts (MW) of renewable energy spread across 23 countries. In the United States, Iberdrola Renewables is the second largest wind operator, with more than 4,700 MW in operation, enough power to produce clean, homegrown energy to meet the needs of more than one million typical American homes.

I have worked with Iberdrola Renewables for nearly 5 years, and have been heavily involved in the development, design, and construction of the two operating wind farms we have in the state (Providence Heights in Bureau County, Streator Cayuga Ridge South in Livingston County). In addition, I am a Mechanical Engineer, licensed in 7 states (starting work on licensing in Illinois), who possesses 20+ years of experience in development, design, process/operational optimization, construction, and project management for a variety of energy and non energy related industrial sectors.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of renewable energy and disciplines related to this field, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Jeffrey J. Reinkemeyer
Lead/Senior Developer, Eastern Development Region
Iberdrola Renewables, Inc.
March 5th, 2012

Dr. David G. Loomis, Professor of Economics  
Director, Center for Renewable Energy  
Executive Director, Institute for Regulatory Policy Studies  
Illinois State University  
Campus Box 4200  
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

EDP Renewables ("EDPR") North America, formerly known as Horizon Wind Energy, is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

EDPR is a Founding Member of the Center for Renewable Energy at Illinois State University. We have partnered with the University on several education and outreach events and have provided internships for students majoring in Renewable Energy for the past several summers. EDPR has a long standing commitment to educating the next generation in the areas of renewable energy and sustainability.

EDPR and its subsidiaries develop, construct, own and operate wind farms throughout North America. Based in Houston, Texas with 27 wind farms and over 15 offices across the United States, EDPR has developed more than 3,600 megawatts (MW) and operates over 3,400 MW of wind farms. EDPR, ranked third in the United States in terms of net installed capacity, has more than 1,900 turbines in operation and approximately 40 million hours of wind turbine operational history. With over 300 employees, EDPR’s highly qualified team has a proven capacity to execute projects and achieve goals.
EDPR is a global leader in the renewable energy sector that develops, constructs, owns and operates renewable generation facilities. With a sound development pipeline, first class assets and market-leading operating capacity, EDPR has grown extensively in recent years. The company's long-term growth is driven by favorable renewable energy market conditions in the United States and throughout the world. EDPR is committed to renewable energy generation as it becomes increasingly reliable and competitive due to technological advancements that lead to greater efficiencies.

I have worked with Horizon Wind Energy/EDP Renewables since February, 2008. I began with our New Initiatives team where I assisted with the site selection of new prospects in the United States, as well as reviewed potential acquisition targets. I also assisted in our solar developments in the Southwest United States. I then joined the development team for the Meadow Lake Wind Farm, located near Lafayette, IN. This team developed over 500 MWs for the project. I then moved to our Bloomington, IL office to focus on our Illinois development portfolio. I am now managing projects in our eastern region, which includes projects in Illinois, New York, and other states. I have a bachelor’s and master’s degree in geography from the University of Illinois at Urbana-Champaign.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of renewable energy development, and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Brian Dunneback
Louis Harris  
Director, Regulatory Strategies and Services  
Commonwealth Edison Company  
440 S. LaSalle, Suite 3300  
Chicago, IL 60605

March 1, 2012

Dr. David G. Loomis, Professor of Economics  
Director, Center for Renewable Energy  
Executive Director, Institute for Regulatory Policy Studies  
Illinois State University  
Campus Box 4200  
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Commonwealth Edison is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow's energy industry. We believe that the Energy Learning Exchange could serve as an effective talent pipeline, which could result in the kind of well-trained workforce that will be critical to the continued success of our company. We would be pleased to join you in this effort.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of regulatory policy. As you may know, I have been involved in electric utility regulatory policy development for 25 years. My first experience was at Edison Electric Institute in Washington, DC. Upon moving to Illinois, I served as the policy advisor to ICC Chairman Charles Box. My most recent experience has been in regulatory matters with ComEd.

I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

[Signature]

Louis Harris
February 28, 2012

Dr. David G. Loomis, Professor of Economics
Director, Center for Renewable Energy
Executive Director, Institute for Regulatory Policy Studies
Illinois State University
Campus Box 4200
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

Stevenson High School is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective talent pipeline, which will result in the kind of well-trained workforce that will be critical to the continued success of our company. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

We are the only LEED-EB Gold Certified Public High School in the country and have discovered that the ROI on “Going Green” was less than 2 years. We have partnered with Northwestern University and the College of Lake County for professional development for our faculty. Additionally, we are hosting an all day Environmental Leadership Summit for some of our students that will focus on energy needs/trends, sustainable city planning and architecture, and climate change.

My interest and involvement in energy education spans 30 years. I taught AP Environmental Science and Accelerated Biology before retiring in 2010. I was the Northern Environmental Science Teacher of the year in 2010. I received the Community Educator of the year award in 2011 from the State of Illinois Activity Directors. In 2011, I sat on a Panel with the Illinois Clean Energy Community Foundation presenting on how to set up schools as renewable energy models for the community at the National Solar Energy Conference. I also attended the NSF Clean Energy Education Workshop at your school in the fall of 2011. I would love to use my expertise in working with various educational institutions to develop the pipeline for higher education programs state wide.

As a part of the Energy Learning Exchange, I will serve as a subject matter expert in the area of how to involve K-12 schools and I will ensure that all of the relevant principles are accurately portrayed. I look forward to working with Illinois State University and members of the Illinois energy sector to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Dave Wilms
Sustainability Coordinator
Adlai E. Stevenson High School
Lincolnshire, Illinois 60069
(847) 415-8160
The labor movement is, of course, connected to green jobs in many ways – in construction, energy generation, energy distribution, energy conservation, and production of energy-related equipment (turbines, solar panels, biogen, etc.). Labor’s contributions to the proposed Energy Learning Exchange would build on its long-standing relationship with the Labor Education Programs at the School of Labor and Employment Relations at the University of Illinois, as well as its broader commitment to energy learning in society.

As a part of the Energy Learning Exchange, I look forward to reaching out to labor leaders to help to create meaningful energy-related learning experiences for students across the state.

Sincerely,

Robert Bruno
Director of Labor Education Programs
Professor of Labor and Employment Relations
School of Labor and Employment Relations
University of Illinois
The Rice Building, Suite #110
815 W. VanBuren
Chicago, Illinois 60607
PHONE: 312-996-2491
FAX: 312-413-2997
March 9, 2012

Dr. David G. Loomis, Professor of Economics  
Director, Center for Renewable Energy  
Executive Director, Institute for Regulatory Policy Studies  
Illinois State University  
Campus Box 4200  
Normal, IL 61790

Dear Dr. Loomis:

Thank you for the invitation to work with Illinois State University on the creation of the new Illinois Pathways Energy Learning Exchange. I would be pleased to work with faculty and staff from the Illinois State University Center for Renewable Energy and the Institute for Regulatory Policy Studies to create a balanced and exciting Energy Learning Exchange.

The Illinois Green Economy Network (IGEN) is very interested in the development of a knowledgeable and capable workforce that has the skills to succeed in tomorrow’s energy industry. We believe that the Energy Learning Exchange will serve as an effective program to engage students in clean energy education, which will ultimately result in the kind of well-trained workforce that will be critical to sustainably meet the energy needs of the future. Therefore, we look forward to the opportunity to work closely with Illinois State University and other members of the Illinois energy industry to create meaningful energy-related curriculum, explore internship and externship opportunities, serve as periodic guest speakers, and interact with high school students to offer encouragement and advice as they progress in their coursework.

IGEN (www.igencc.org) was launched in 2008 as a president-led consortium dedicated to providing a platform for collaboration among all Illinois community colleges and their partners to establish sustainable best practices, promote energy demand reduction projects, and drive growth in the green economy. IGEN operates under an intergovernmental agreement to continuously leverage the strengths and contributions of individual colleges to benefit all colleges within the Illinois Community College System.

With financial support from the Illinois Governor's Office, Illinois Department of Commerce and Economic Opportunity, and the U.S. Departments of Education, Energy and Labor, IGEN’s statewide collaboration is unique and yields extraordinary results. IGEN builds cooperative efforts among community college faculty, staff and students and our community partners to pilot green technologies, increase green campus initiatives related to sustainability, clean energy, energy conservation and efficiency, expand sustainability in the curriculum, grow green workforce training programs, and engage local communities in sustainability and energy use reduction initiatives. By combining the power of community colleges as credible education and training organizations with the power of the business sector to innovate and the ability of local communities to identify their individual needs, IGEN partnerships energize a new level of engagement and productivity in the green economy. IGEN builds the capacity of colleges to support sustainability practices...