

# **National Workforce Consortium for Shipbuilding and Repair – Collaborating for Global Competitiveness**

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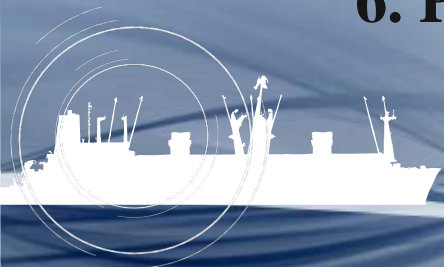
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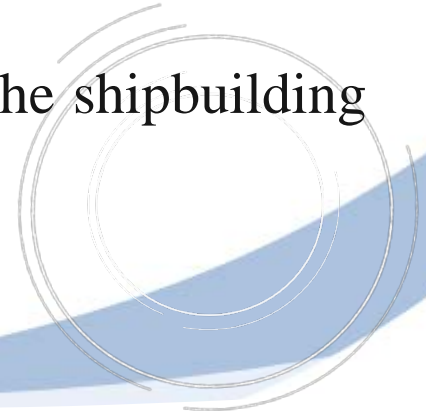
# Topics

- 1. Idea and Vision**
- 2. Goals and Activities**
- 3. National Consortium Workforce Development (NCWD) Structure**
- 4. Some examples of implementation of Consortium Workforce development in different fields**
  - ✓ Workforce consortium for emerging Technologies
  - ✓ Institute for Educational Leadership (IEL)
  - ✓ Ohio Energy Workforce Consortium
  - ✓ The Renaissance Group
  - ✓ Florida Energy Workforce Consortium
  - ✓ Missouri Energy Workforce Consortium
- 5. Time Line**
- 6. Possible Funding Sources**



# Idea and Vision

- National Consortium for Workforce development for Shipbuilding and Repair Industry (NCWD) is a partnership between shipbuilding industry, public and private repair yards, educational institutions and regional alliances for promoting a quality workforce for the industry.
- *Mission is to* establish a pipeline for creating qualified workers for the industry. It will also provide connections between educational institutions and industry members that will enhance the knowledge and skills of interested persons with respect to Science, technology, engineering, math (STEM) and related career development opportunities.
- *Vision is to* create a globally competitive workforce for the shipbuilding and repair industry.



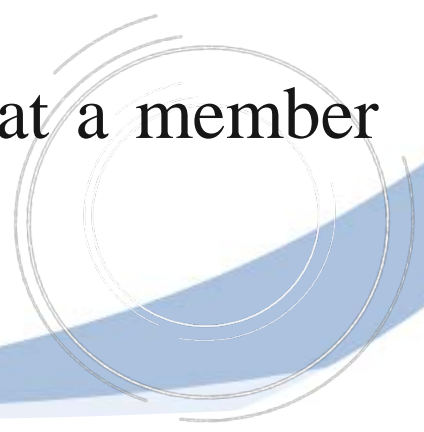
# Goals and Activities

- Share best practices the regional alliances.
- Provide a forum for training curriculum exchange
- Host Career Pathways information at its website like GoShip.com
- Provide a links to other regional alliances
- Serve as a facilitator for project partnerships (including grants)
- Help create new regional alliances
- Host a national conference for all regional alliances (invite the supply chain)
- Facilitate planning and organization of Career Day Events with regional alliances

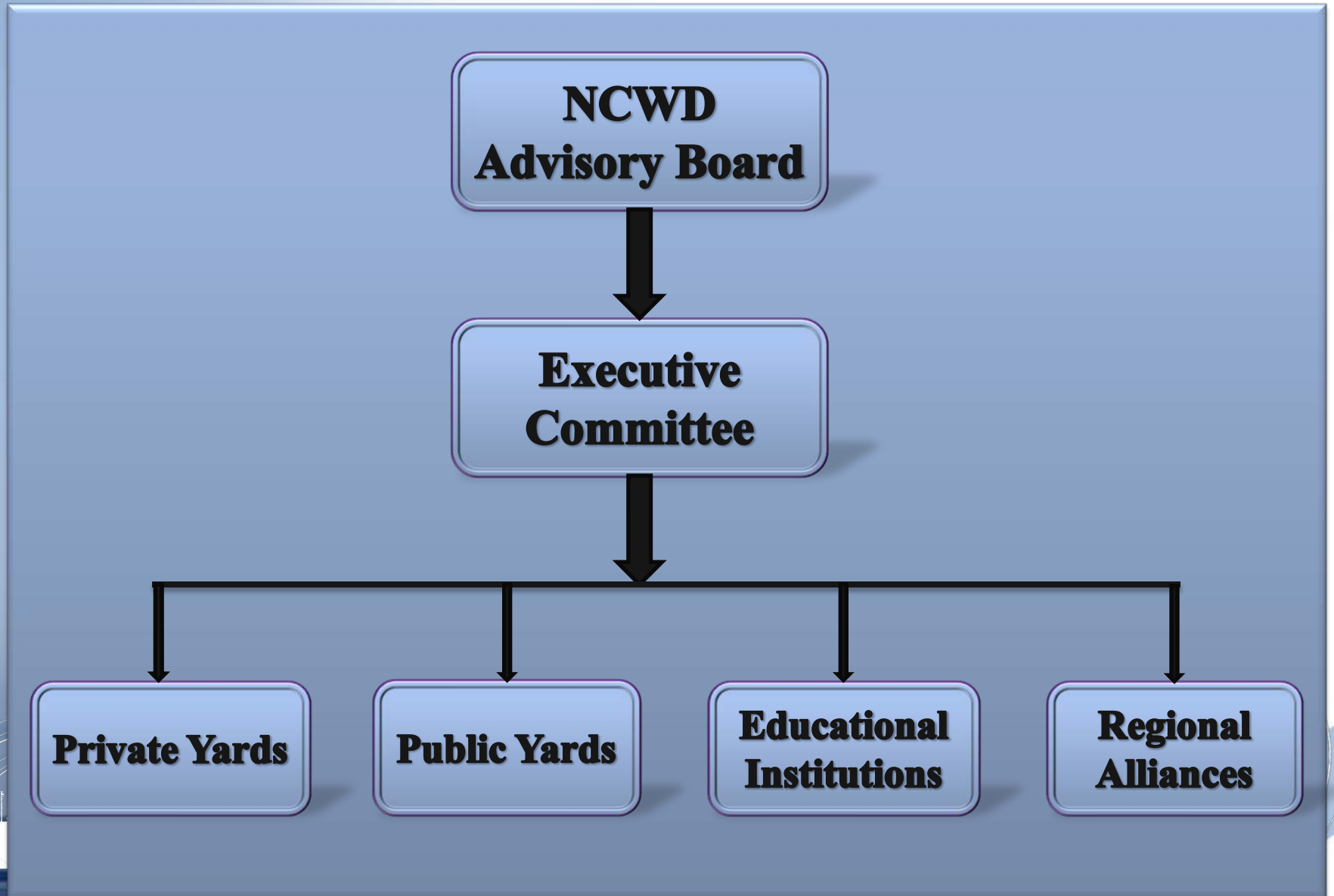


## NCWD Structure

- The NCWD for Shipbuilding and Repair Industry will be a 501 (c) 3, not for profit intermediary organization.
- Its mission is to connect students, workers, educators, industry partners and community members to enhance the quality of workforce in ways that will support a global competitive shipbuilding and repair industry.
- The consortium will be physically housed at a member educational institution.

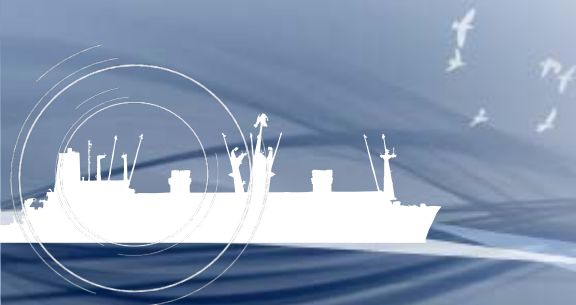


# NCWD Structure



# Consortium Examples

Here are some examples of  
**Workforce Development Consortia**  
in different fields...





# Workforce Consortium for Emerging Technologies (WCET)

- **Mission is to** bring awareness to the full spectrum of new high technology career opportunities in the Tech Valley Region and the global marketplace.
- The Workforce Consortium activities are a collaborative effort that leverages the resources and expertise of the different partners to ensure that the overall goals are met and programs are effectively delivered.
- It is a 501 (c) 3, not for profit intermediary organization with the mission of connecting students, educators, industry partners and community members to enhance the quality of education in ways that will support building a global competitive workforce within emerging technologies industries sectors; alternative energy, nanotechnology, bio-technology, Nano & micro electronics, etc.

## Regional Alliances within WCET:

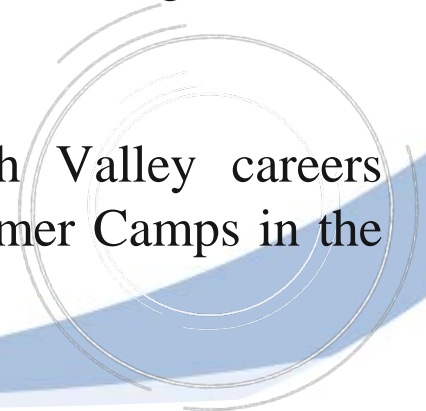


- ✓ **CEG (Center for Economic Growth)** is developing a regional plan and implementation strategy that will include regional educational institutions, business groups and public and non-profit organizations, including K-12 schools, BOCES, community colleges, four-year colleges and universities, Workforce Investment Boards (WIBs), chambers of commerce, and others.



### **Tech Valley Career Pathways Consortium efforts include:**

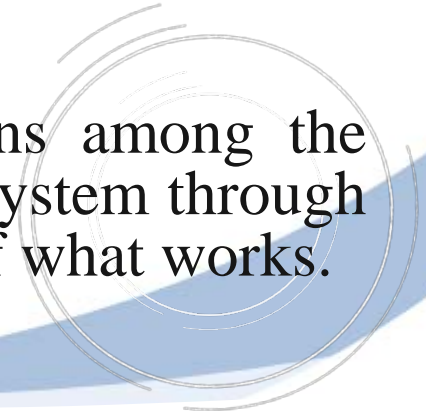
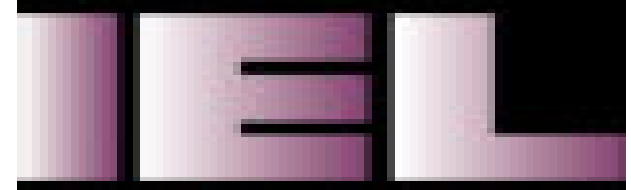
- Continued efforts to improve the college readiness of high school students (especially in math) through early college placement testing (11th grade), professional development for high school teachers and curriculum development.
- Increasing student awareness of emerging Tech Valley careers through the continuation of Career Pathways Summer Camps in the Emerging Technologies for local high students.



# Institute for Educational Leadership

## Center for Workforce Development

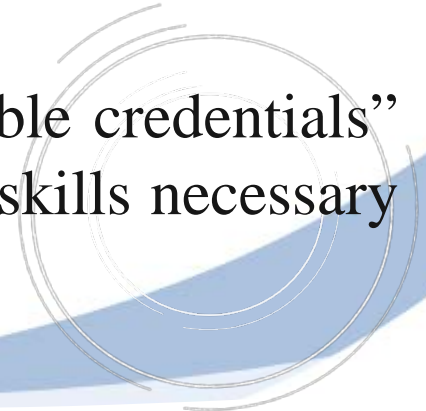
- Established in 1991
- CWD's work has concentrated on:
  - i. improving the involvement and connection of employers to learning enterprises and the workforce system
  - ii. assisting educators, employers and policymakers to improve the connection between school and workplace
  - iii. putting standards and assessments in place that will improve connections and quality and
  - iv. improving the quality of and the connections among the various pieces of the workforce development system through evidence based research leading to examples of what works.



# Ohio Energy Workforce Consortium

## Participating in National Pilot to Train Low-Income, Young Adults for Skilled Energy Jobs

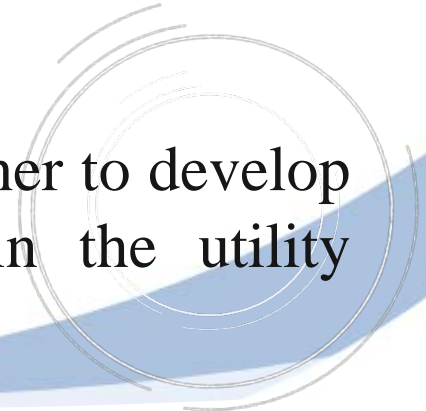
- Ohio's Consortium is led by a volunteer executive committee with representatives from The Dayton Power and Light Company, American Electric Power, The University of Cincinnati and Hard Hatted Women.
- The consortia are partnerships between utilities, industrial construction, unions, educational institutions and government and focus on creating a pool of workers that can meet the needs of their state today and in the future.
- Students will have an opportunity to earn “stackable credentials” through the project that focus on the foundational skills necessary to be successful in a variety of positions in energy.



# Ohio Energy Workforce Consortium

## Participating in National Pilot to Train Low-Income, Young Adults for Skilled Energy Jobs

- The grant will also result in the creation of tools and processes that can be used by utilities, education institutions and the workforce system in the pilot states also in any state that wishes to implement the Career Pathways Model.
- The Center for Energy Workforce Development is a non-profit consortium of electric, natural gas and nuclear utilities and their associations.
- It was formed in 2006 to help utilities work together to develop solutions to the coming workforce shortage in the utility industry.



# The Renaissance Group

- The Renaissance Group (TRG) is a national consortium of colleges and universities with a major commitment to the preparation of educational professionals, and to the promotion of exemplary practices, partnerships and leadership that ensure high levels of teaching and learning for all of America's schools.
- **The Renaissance Group is guided by a set of operating principles that affirm:**
  - the importance of the education of teachers as an all-campus responsibility
  - the creation of partnerships with practicing professionals
  - the extensive use of field experiences in diverse settings
  - the adherence to high standards and accountability
  - a focus on student learning
  - the effective use of technology, and
  - the development of teachers as creative and innovative leaders.

- **Vision is** that The Renaissance Group member institutions will be exemplars for P-16 collaboration, noted for their impact on student learning and leadership in professional education for America's schools.

- **Goals**

The Renaissance Group aims to achieve its mission and vision through a strategic focus on two goals:

*1. Improve student learning in low-performing schools*

*2. Identify, develop, document and disseminate exemplary practices for the initial preparation and ongoing professional development of educators.*

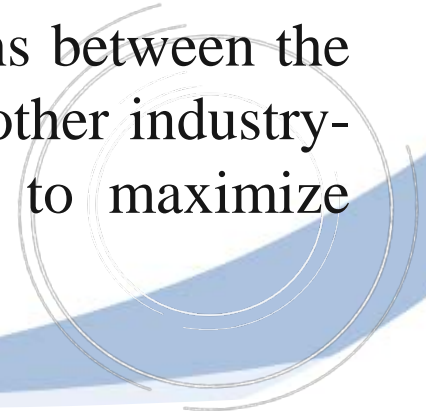




# Florida Energy Workforce Consortium

## **Their mission is ...**

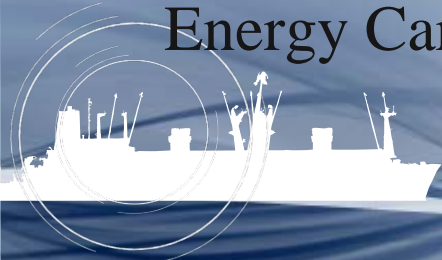
- To raise awareness of the energy industry careers that are critical to Florida state's electrical infrastructure.
- To ensure collaborations are in place to achieve the necessary workforce development solutions to meet the industry's current and future needs.
- To ensure that standing committees and councils are aware of the FEWC objectives and action plans.
- To play a critical role in developing communications between the FEWC and other state energy workforce consortia, other industry-related organizations, and national agency efforts to maximize awareness and solution sharing.



## 2010 Key Accomplishments



- Collaboration with Workforce Florida:
  - ❖ WFI Strategic Plan explicitly addresses Energy as key Infrastructure Industry to focus on and has STEM focus
  - ❖ Banner Centers for Energy, Clean Energy and Construction and the Banner Center for Water Resources was established in 2010
- Collaboration with *STEMflorida* and Florida Chamber Talent & Education Caucus through Jennifer Grove's membership on both.
- Continued collaboration with other state consortia through CEWD
- Selected as 1 of 8 states to implement Gates-funded Get into Energy Career Pathways Program.





# Missouri Energy Workforce Consortium

## A Workforce Strategy for the Energy Industry

- **MEWC** is a state affiliate of the national **Center for Energy Workforce Development (CEWD)**.
- The **MEWC mission** is to engage the energy industry, education and government in strategic, unified and results-oriented efforts to ensure a qualified and skilled workforce that will meet the energy needs of the State of Missouri.
- **MEWC's vision** is that the Consortium will accomplish its mission by ensuring that appropriate enabling and sustaining systems are in place.
- **CEWD** is a non-profit, collaborative initiative of electric, natural gas and nuclear utilities and their associations, encompassing traditional, sustainable and emerging energy technologies.

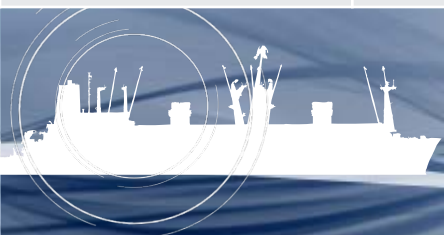
- **CEWD** is the first partnership between utilities, their associations, contractors and unions to focus on building a skilled workforce to meet pipeline needs.
- As they reach their goal, they will see all employers' workforce needs met by:
  - ✓ An improved image of skilled labor careers
  - ✓ K-12 education, post-secondary education, apprenticeship programs and other training programs that include and actively promote skilled labor careers
  - ✓ Expanded alternative and non-traditional labor pools being utilized
  - ✓ Education and research institutions integrating research and training efforts with the needs of the industries
  - ✓ Identifying and reinforcing leading workforce indicators for desired results
  - ✓ State and local workforce boards engaged in meeting the industry's skilled workforce challenges

Example	Activities	Funding Source	Budget	Region of service
<p><b>Workforce Consortium for Emerging Technologies</b></p>	<ol style="list-style-type: none"> <li>1. Career Pathways for Students in Emerging Technologies.</li> <li>2. Educating the Biotechnologist for our Future.</li> <li>3. NYSUT program at SUNY East Albany Campus.</li> <li>4. Renewable Energy – Smart Power and Light.</li> <li>5. Rensselaer Nanotechnology 2010 Summer Institute.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rensselaer’s National Science Foundation funded Nano scale science and Engineering Center.</li> <li>2. NSF funded – Smart Lighting Engineering Research Center.</li> <li>3. The Greater Capital Region Career Pathways Consortium and etc.</li> </ol>		<p>18-county region in the northeast section of New York State</p>
<p><b>Institute for Educational Leadership (IEL)</b></p>	<ol style="list-style-type: none"> <li>1. Coalition for Community Schools.</li> <li>2. Education Policy Fellowship Program.</li> <li>3. National Consortium on Leadership and Disability for Youth.</li> <li>4. National Collaborative on Workforce and Disability/For Youth.</li> <li>5. Ready to Achieve Mentoring Program.</li> </ol>	<p>Programs and partnerships are supported by grants and contributions from diverse organizations and individuals:</p> <ol style="list-style-type: none"> <li>1. Corporate Funders</li> <li>2. Foundation Funders</li> <li>3. Annual Fund Donors</li> </ol>		<p>Leaders across the various sectors of education (P-20), workforce development and child- and youth-serving systems</p>

Example	Activities	Funding Source	Budget	Region of service
<b>Ohio Energy Workforce Consortium</b>	<ol style="list-style-type: none"> <li>1. Boot camps.</li> <li>2. Apprenticeships.</li> <li>3. Certificate programs or an associate degree.</li> <li>4. Roughly 500 placed into electric and natural gas utility jobs.</li> <li>5. Others referred to jobs in construction and manufacturing.</li> </ol>	Bill and Melinda Gates Foundation	\$75,000 over a three year period	Ohio
<b>The Renaissance Group</b>	<ol style="list-style-type: none"> <li>1. Co-teaching Signature Project</li> <li>2. The TRG Electronic Journal Educational Renaissance</li> <li>3. Fall 2008 Conference, "Addressing Societal Challenges Through Education"</li> </ol>	examining various funding options for the Co-teaching Signature project.		locally, regionally and nationally



<b>Example</b>	<b>Activities</b>	<b>Funding Source</b>	<b>Budget</b>	<b>Region of service</b>
<b>Florida Energy Workforce Consortium</b>	<ol style="list-style-type: none"> <li>1. Gates Foundation-funded Get into Energy Career Pathways Project</li> <li>2. Attracting, recruiting and training workers from untapped and under-represented labor pools</li> <li>3. Careers In Energy Week</li> </ol>	<ol style="list-style-type: none"> <li>1. Gates Foundation</li> <li>2. Center for Energy Workforce Development</li> </ol>		Florida
<b>Missouri Energy Workforce Consortium</b>	<ol style="list-style-type: none"> <li>1. Math and Science based problem - solving skill development programs to support technical energy occupations</li> <li>2. “Train the trainer” courses for specific area curriculum implementation</li> </ol>	Center for Energy Workforce Development		Missouri



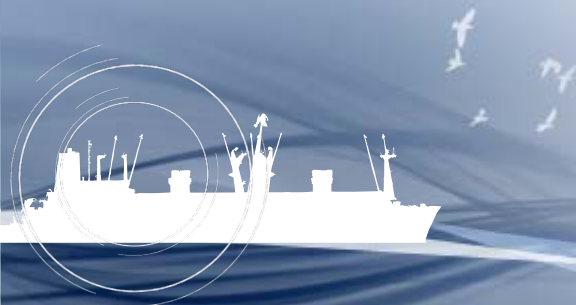
# Timeline for Development

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Identify Funding	Active	Completed	Completed	Completed
Develop proposals	Completed	Active	Completed	Completed
Develop Bylaws and Structure	Active	Active	Active	Completed
Conferences	Completed	Completed	Completed	Active



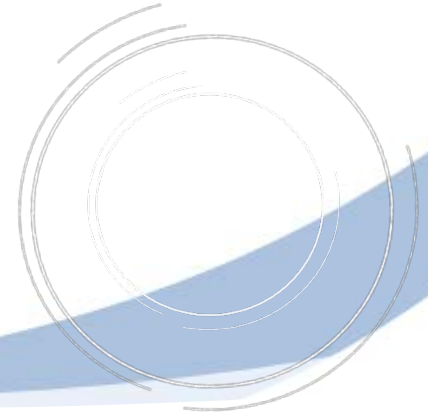
# **Funding Sources**

- 1. NSRP - White Paper submitted during the last round but was not funded**
- 2. National Science Foundation (NSF)**
  - Possible programs to fund the activities may be explored**



# References

1. <http://missourienergyworkforce.org/>
2. <http://www.wcet.us/>
3. <http://www.iel.org>
4. <http://www.fewc.org/>
5. <http://www.csufresno.edu/renaissancgroup/>
6. <http://www.businesswire.com/news/home/20101015006186/en/Ohio-Energy-Workforce-Consortium-Participating-National-Pilot>



# QUESTIONS??

# THANK YOU!!

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