



NJ PATHWAYS
TO CAREER OPPORTUNITIES
Aligning Education to Build an Innovative Workforce

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NJ PATHWAYS
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Aligning Education to Build an Innovative Workforce

YEAR 2 PROGRESS UPDATE

Center of Workforce Innovation for
Offshore Wind

WELCOMING REMARKS

Catherine Starghill, Esq.

Vice President

*New Jersey Council of
County Colleges*

Executive Director

*New Jersey Community College
Consortium for Workforce &
Economic Development*



Our Education Partners

- **Atlantic Cape Community College**
- **Atlantic City High School**
- **Cape May County Technical High School District**
- **Dickinson High School**
- **Gateway Regional High School District**
- **Rowan College of South Jersey**

AGENDA

Welcoming Remarks

**Offshore Wind Pathway
Projects Year 2 Update**

Q&A

Closing Remarks





Center of Workforce Innovation for Offshore Wind

Sherwood Taylor, Lead Institution Representative
Atlantic Cape Community College





Offshore Wind Awareness Experiences Pilots

Julie Stratton,

Cape May County Technical High School District



EDUCATION PARTNERS:

**Atlantic City High
School**

**Cape May County
Technical High
School District**

**Dickinson High
School**

**Gateway Regional
High School District**

Offshore Wind Awareness Experiences Pilots

In NJ Pathways Year 1, Cape May County Technical School developed three model offshore wind energy science projects and career awareness programs. These hands-on experiences provide students an opportunity to learn about the energy industry, complete with a comparison of wind energy against energy generated by fossil fuels as well as future renewable energy sources.

Through these experiences, students will learn about the importance of energy, the various careers in the wind industry as well as the global impact wind energy has on the environment.

Four High School partners will pilot the Photon Game, Preparing for a Career in the Offshore Wind Industry, and/or Beach Town, USA: A Town Hall Debate.



PATHWAY CONNECTIONS:

Big Idea Different than the Work Done in Year 1

Connection to High School (Non-Credit)

Connection to High School (Dual Enrollment)

Community College (Non Credit)

Community College (Credit)

Apprenticeship Development

PLA for Apprenticeship RTI

PLA

Connection between Community Colleges (1+1)

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Adult Learners

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Professional Development

Pilot

Offshore Wind Awareness Experiences Pilots

Follow the Photon Game is one of three career awareness projects developed by Cape May County Technical School about the offshore wind energy industry created in NJ Pathways Year 1. Through a game, students examine the energy pathway for electricity generated via an offshore wind turbine and compare that energy pathway to electricity generated by a fossil fuel (coal) power plant.

Participating High Schools:

- **Atlantic City High School**
- **Cape May County Technical High School District**
- **Dickinson High School**
- **Gateway Regional High School District**

Projected Schedule:

- **Atlantic City High School: April 1-May 17**
- **Cape May County Technical High School District: complete by May 17, currently in pilot**
- **Dickinson High School: April 1-May 17**
- **Gateway Regional High School District: April 1-May 17**

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Offshore Wind Awareness Experiences Pilots

Preparing for a Career in the Offshore Wind Industry: is the continuation of career awareness for the offshore wind energy industry. This 10 day project will teach students about the unique experiences employees have working and living on an offshore wind farm, what training is required for offshore wind turbine workers, and the importance of safety in this industry.

Participating High Schools:

- **Cape May County Technical High School District**

Projected Schedule:

- **Cape May County Technical High School District: complete by May 17, currently in pilot**

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Offshore Wind Awareness Experiences Pilots

Beach Town, USA:

A Town Hall Debate is the third project in this series of career awareness projects. Students take part in a mock town hall debate about a proposed offshore wind farm development in their community. They will examine evidence, perform research, and present arguments either for or against the offshore wind farm development from the point of view of various stakeholders.

Participating High Schools:

- Atlantic City High School
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Offshore Wind Awareness Experiences Pilots

Cape May County Technical High School District Implementation:

- Used in the Environmental and Sustainability classes as well as student summer programs (2022-2023).
- This school year (2023-2024), using the materials with Environmental and Sustainability students.
- Plans to utilize some of the lessons with our Introduction to Oceanography students (total 21 students)
- 12 students in Environmental and Sustainability and Oceanography used the materials and also helped with play testing (11th and 12th grade)
- 60 students in a summer program that used some of the Follow the Photon materials (9th grade)

Challenges:

- Some of the activities were not as engaging as others.
- Teachers have found that time to prep and integrate into the existing curriculum
- have been challenging in some cases.

Solutions:

- Students assisted creating a modified card version for the Follow the Photon.



Offshore Wind Awareness Experiences Professional Development

Julie Stratton,

Cape May County Technical High School District



EDUCATION PARTNERS:

**Atlantic City High
School**

**Cape May County
Technical High
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**Gateway Regional
High School District**

Offshore Wind Awareness Experiences Professional Development

Cape May County Technical High School District held professional development sessions for the high school instructors participating in the Offshore Wind Awareness Experience pilot programs. This training provides instructors the opportunity to review materials that accompany the projects as well as receive first hand guidance for implementation.

Through this training, instructors not only learned about the energy industry, but also prepared in answering student questions that may arise.



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Offshore Wind Awareness Experiences Pilots

Professional Development Sessions Held (*All sessions where recorded and made available to participating high schools):

- **January 11: Offshore Wind Awareness Experiences (Train-the-Trainer Session)**
- **January 24: Offshore Wind Awareness Experiences (Preparing for Implementation) 1 of 2**
- **February 7: Offshore Wind Awareness Experiences (Preparing for Implementation) 2 of 2**
- **Marcy 19: Offshore Wind Awareness Experiences (Debrief/Reflection)**

Participating High Schools:

- **Atlantic City High School**
- **Dickinson High School**
- **Gateway Regional High School District**

Challenges:

- **Availability of staff to attend the train-the-trainer sessions.**

Solutions:

- **Offered individual sessions.**



Exploration in Wind Energy Careers Pilot

Sherwood Taylor,
Atlantic Cape Community College



EDUCATION PARTNERS:

**Atlantic Cape
Community College**

**Rowan College of
South Jersey**

Offshore Wind Awareness Experiences Professional Development

Atlantic Cape Community College and Rowan College of South Jersey (RCSJ) will pilot the Exploration in Wind Energy Careers workshop developed by Middlesex College during NJ Pathways Year 1. The three hour, non-credit, workshop gives participants the opportunity to explore different career options in wind energy. Atlantic Cape and RCSJ will convert the self-paced, online workshop and deliver it in a face-to-face format.



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Offshore Wind Awareness Experiences Pilots

Exploration in Wind Energy Careers:

A non-credit, 3 hour workshop which allows participants to explore different career options in wind energy. Wind energy careers focus on improving energy efficiency and reducing emissions. The workshop will cover renewable energy 101 , introduction to wind energy, identifying wind energy jobs, describing wind energy careers, and training and education for wind energy.

A part of this pilot, Atlantic Cape Community College will convert the original course designed by Middlesex in NJ Pathways Year 1. The design will allow participants to take the exploration, guided by an instructor to give an introduction to available energy careers.

Projected Schedule (three sections, each college):

- Atlantic Cape Community College, April 30, May 7, and May 14
- Rowan College of South Jersey, March 18, 25 and April 1



Strategies for Teaching Adult Learners Course Pilot

Sherwood Taylor,

Atlantic Cape Community College



EDUCATION PARTNERS:

**Atlantic Cape
Community College**

**Rowan College of
South Jersey**

Strategies for Teaching Adult Learners Course Pilot

Atlantic Cape Community College and Rowan College of South Jersey will partner to deliver sections of the updated Strategies for Teaching Adult Learners program. This program is designed for new instructors and educators to successfully reach adult learners who are a large workforce development target population within the offshore wind energy industry.

The program is available to all NJ Pathways partners.



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Strategies for Teaching Adult Learners Course Pilot

Strategies for Teaching Adult Learners (for Subject Matter Experts):

This 8-week Strategies for Teaching Adult Learners program is designed to provide subject matter experts with the foundation knowledge to be successful instructors. The topics include Course Introduction; What Makes a Successful Trainer? Understanding Your Learning; Adult Learning Theory: Concepts and Principles; Effective Communication Skills for Trainers I; Effective Communication Skills for Trainers II; Designing Effective Training Programs; and Presentation Strategies and Techniques.

Projected Schedule (one section, per college):

- Atlantic Cape Community College, April 1
- Rowan College of South Jersey, April 1

Registration information for both Atlantic Cape and RCSJ's sections will be available during the week of March 18. Interested participants can register for either program. The content for each section is the same but will allow for more participants to take part in this pilot.



Exploration for Wind Energy Careers, a Virtual Experience

Sherwood Taylor,

Atlantic Cape Community College



EDUCATION PARTNERS:

**Atlantic Cape
Community College**

**Rowan College of
South Jersey**

Exploration for Wind Energy Careers, a Virtual Experience

Atlantic Cape Community College and Rowan College of South Jersey will deliver sections of the Career Exploration for Wind Energy Careers, a Virtual Experience. The program guides participants in understanding their interest in careers related to wind energy, including a component that allows the participant to virtually experience the day in the life of a Wind Turbine Technician.

The program's foundation will be based on the Exploration in Wind Energy Careers workshop developed by Middlesex College in NJ Pathways Year 1.



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Exploration for Wind Energy Careers, a Virtual Experience

Career Exploration for Wind Energy Careers, a Virtual Experience

This 12-hour program will guide participants in understanding their interest in careers related to wind energy. The program will include a component that allows the participant to virtually experience the day in the life of a Wind Turbine Technician. In addition, participants will take a career interest survey that will indicate their interests and aptitudes towards specific careers.

Using the Quest 3 VR system, the virtual experience will provide an immersive learning experience that includes foundational information for students interested in offshore wind. They will virtually explore everything from wind energy concepts to career possibilities in the wind industry. Students leave this course with a significant understanding of wind and how to begin their careers in the industry.

Projected Schedule (two sections, each college)

- Atlantic Cape Community College, May 7, and May 14**
- Rowan College of South Jersey, April 15 and April 22**



Q&A

Center of Workforce Innovation for Offshore Wind





Closing Remarks

Catherine Starghill, Esq.



UPCOMING EVENTS



STATEWIDE INDUSTRY COLLABORATIVE MEETINGS

Various Virtual Meeting Dates Spanning From
Tuesday, March 19, to Thursday, March 28





NJ PATHWAYS **SUMMIT**
TO CAREER OPPORTUNITIES **2024**
Aligning Education to Build an Innovative Workforce

Expanding **Innovative**

Education & Workforce Partnerships

Bally's Atlantic City
Hotel & Casino
June 12, 2024

NJPathways.org



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