



MFG & Energy Industry Careers Bus Tour

Participant Survey Summary

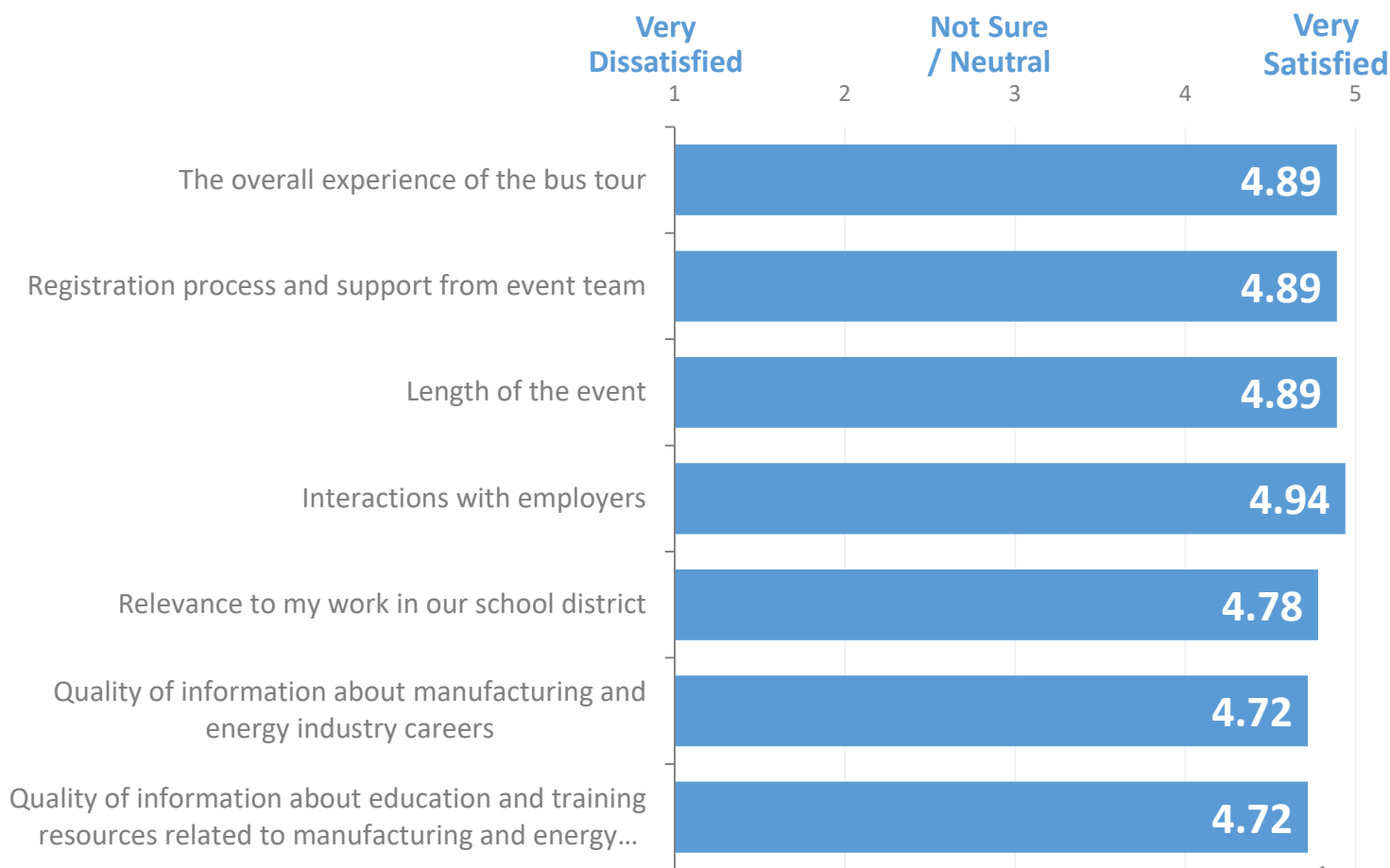
On October 29, 2019, staff from several educational institutions and school districts in Westchester and Putnam Counties participated in a regional bus tour of manufacturing and energy industry employers. Prior to the event, participants were asked to complete a survey about their understanding and perceptions of these industries in the region. Following the event, participants completed another survey asking the same or similar questions about their experience on the tour. This report provides comparative and summary results from these two surveys.

District/Employer & Occupation of Participants (Total=18)

<u>School District/Employer</u>	<u>Participants / Surveys</u>
Hawthorne-Cedar Knolls Union Free School District	1
Southern Westchester BOCES	1
White Plains Public Schools	1
Yonkers Public Schools	3
Other	12

<u>Job Title / Occupation</u>	<u>Participants / Surveys</u>
Administrator (Superintendent, Vice Principal, etc.)	4
Guidance Counselor	9
Teacher: Science, Technology, Engineering, and/or Math	3
Work Experience Coordinator or Similar	1
Youth Case Manager	1

Participant Satisfaction with...





What did you like most?

- Meeting with the employers and hearing about open job opportunities and required qualifications
- Everything
- Ability to talk to individuals from industry
- All presentations at the companies and on the bus
- The detail of the information of skills in manufacturing
- The ease of getting to see such great companies!
- The meet and greet of the businesses
- The overall atmosphere and information shared
- Visiting the various sites
- All of it! The apprenticeship for my students
- Visiting the facilities gives me first hand information to share with my students
- Actually attending manufacturing companies
- Visitation to Safe Flight
- I like learning about what different companies have to offer to our students for a better future.
- I enjoyed interacting with the employers at the various companies

What could be improved?

- We packed a lot into one day. I'm impressed!
- N/A
- Focus more on steps to get work for HS students (i.e. programs), jobs that require HS degree
- Slow down to make it relevant to our students. Feel as though it might not amount to anything concrete
- This is a needed service and can be expanded to students
- Nothing other than please give us our loot bag at the end so we don't have any extra to carry
- N/A
- None. Maybe more time.
- This event was really well done!
- Time spent at each event
- To visit more companies
- None

What aspects of the bus tour do you anticipate incorporating into your work?

- Council of Industry apprenticeship program
- Implementation of new courses, programs and connections with businesses
- Job opportunities
- This is the issue
- Partnering with training programs and jobs to prepare students
- All info on how I can intro to my HS students
- All of it!
- More networking
- Explain to students about the many options
- Apprenticeship program
- Presentations to the counseling department and groups of students interested in college
- Redirecting students' goals and aspects about energy and manufacturing
- Getting more students
- I am going to share the intern/GOLD program from ConEd, manufacturing AC jobs as needed.
- I would like to share the information with my students

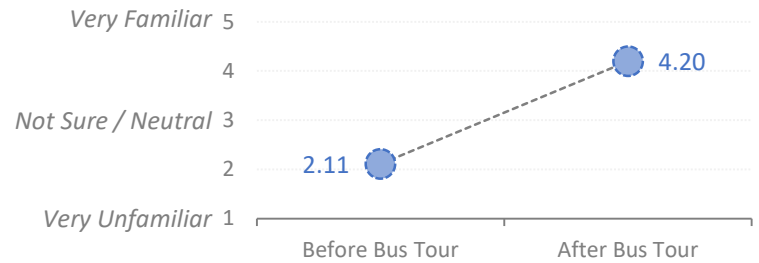
What resources would you need to do so?

- Funding & resources
- How does WCC connect with future jobs?
- Visits and/or presentation to school/students
- Connections to jobs and training programs; partnerships to provide students with certifications
- Presenters for career day
- The PowerPoint presentations and contact infos
- Job fairs
- Not sure
- Bring in rep w/info
- Hand-outs
- Guest speaker/outreach
- A PowerPoint for the assemblies and guest speakers.

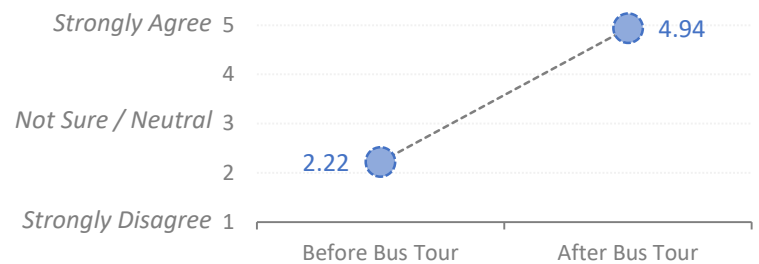


Change in Participant Perspectives & Understanding Before & After the Bus Tour

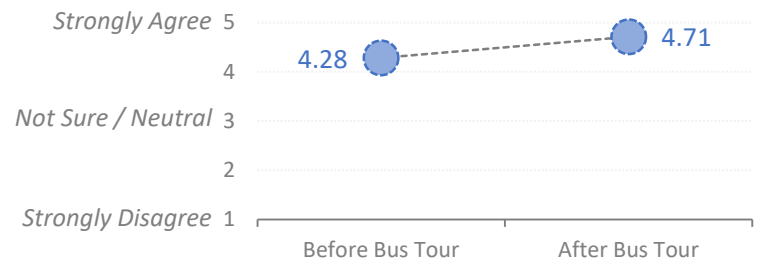
Rate your familiarity with career and employment opportunities in manufacturing and energy for students in your area/school district.



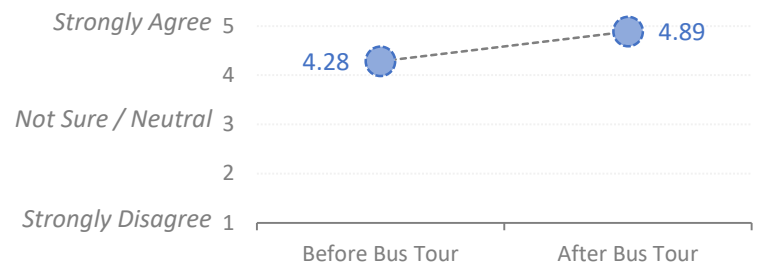
“I understand manufacturing and energy industry career opportunities for students in our area/school district.”



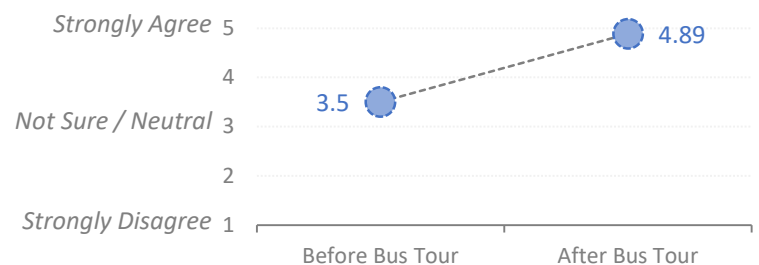
“I believe that our school’s curriculum should be connected to some extent to the employer needs and labor market demands of our area/region.”



“I see the value in building partnerships between our district and manufacturing and energy industry employers in our area.”



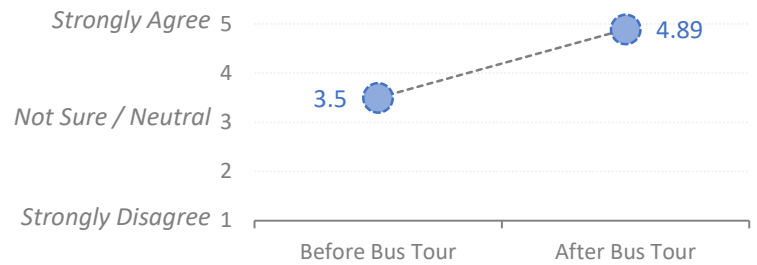
“In the past, I have been willing or eager to seek out partnerships between our school and area manufacturers or energy industry companies.”



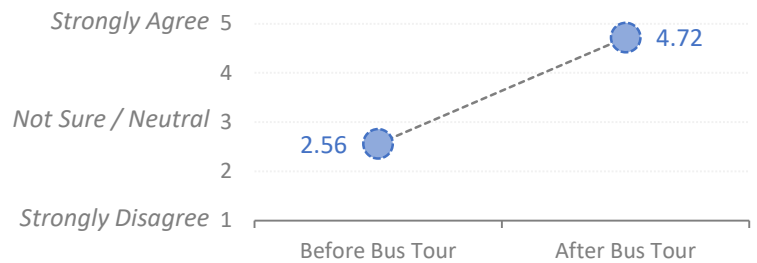


Change in Participant Understanding of Manufacturing

“I have a good sense of which manufacturing companies are located in or near our district, what jobs they hire for, and what skills they need in their workers. “



“I have a good sense of what modern manufacturing careers are like and what sort of skills they demand.”



Participants' Word Association with Manufacturing

Before the Bus Tour:

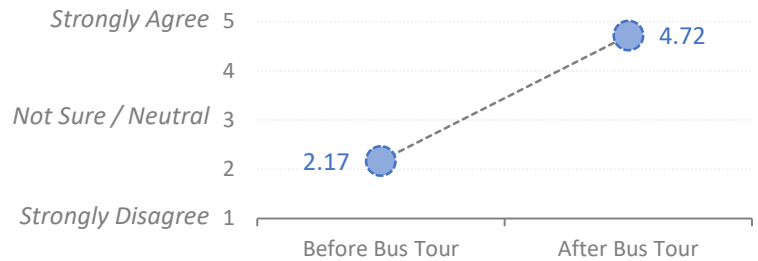
- Outsourcing of jobs
- Factory Work, Machinery
- Hands-on, technology, assembly
- Vocational
- Food and Beverage, Computer and Electronics
- Technicians, woodworkers, welders
- Manufacturing of products (machine parts, specialized components not available from large-scale production, etc)
- Union work, trades, crafts, carpentry,
- Goods, labor, long careers
- Learning the logistics behind it.
- Electricity. Carpentry. Plumbing. HVAC
- A Plant, Mill, Factory
- Coding and programming computers to create machine parts and support big machinery textile
- Cad-CAM and very specialized
- Programming computer inside automobiles.
- Automaton , robotics , computer concepts.
- N/A

After the Bus Tour:

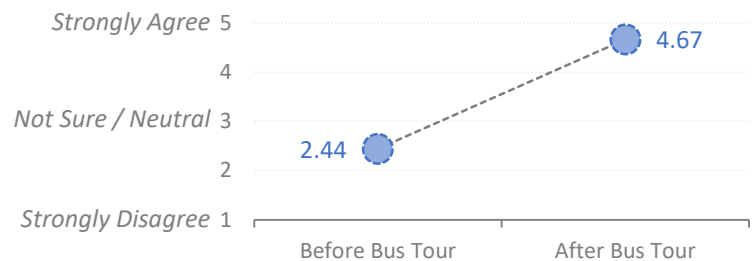
- Robust offerings, thriving industries, diverse offerings
- Trade school
- Unknown
- Tool and part production
- Transferable skills; ex-auto to machine mechanics
- Growth, promise
- Robust
- Exciting. Real world.
- Opportunity re: employment + college credit/degree
- CNC, 3D printer, advanced manufacturing
- Unidentified
- Very informative
- Dirty factory environment, but I am wrong now because of the tour.
- Machinist, electrical technician

Change in Participant Understanding of the Energy Industry

“I have a good sense of which energy industry employers hire students near or in our district, what jobs they hire for, and what skills they need in their workers.”



I have a good sense of what modern energy industry careers are like and what sort of skills they demand.



Participants' Word Association with the Energy Industry

Before the Bus Tour:

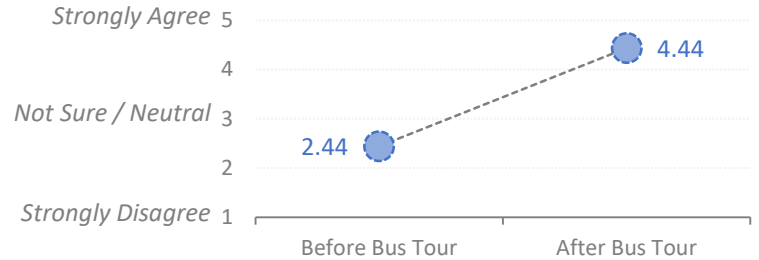
- Developing alternative energy resources
- Manufacturing, skills with tools and machinery
- I think of Con-ed
- Vocational
- Energy Analyst, Gas and Oil
- Engineers, electricians
- Wind, solar, geothermal, power grid.
- Technology, renewable energy, solar power, green jobs
- Solar
- Solar energy, wind powered energy
- Solar. Wind turbines. Gas.
- Plant, Mill, Factory
- Windmills, alternative fuel, Going Green Initiatives
- Con Edison
- Green energy
- Saving energy to preserve the environment.
- Wind, hydro, natural gas, clean energy.
- N/A

After the Bus Tour:

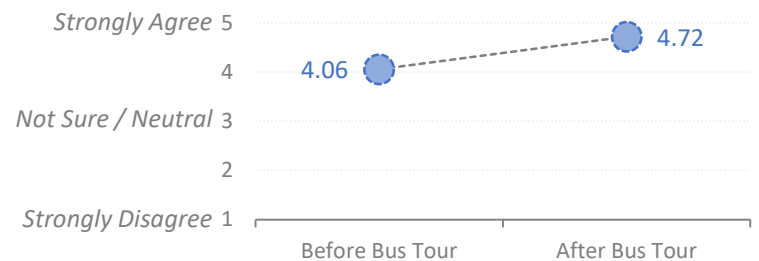
- Opportunity, growth, great careers
- Unknown
- Excellent opportunities
- Benefits; growth potential
- Growth, promise
- Moving forward in an industry not advertised as much as it should be. The fact that you need a HS diploma and move to the top of your desired field
- Real world experience
- Tuition reimbursement; safety; loyalty, partnerships, etc.
- Solar panels, gas, electrical
- Opportunity, great jobs, local manufacturing
- Working in a job that offer CAD experience; building and updating software; learning to troubleshoot systems; working with hands-on experience; working in a diverse environment for student to feel comfortable while learning their new career utility workers

Change in Participant Perspectives & Understanding Before & After the Bus Tour

"I am knowledgeable about education and training resources in our area that support students interested in manufacturing and energy industry careers."



"I am likely to recommend career paths and education and training programs in manufacturing and energy industry careers to my students."



Additional Participant Comments

- I so appreciate the opportunity to meet with these companies and organizations to better counsel my students. I had no idea the manufacturing and energy industries had so many offerings in Westchester County. Thank you!
- When is the next workshop?
- Thank you!
- Love this bus tour
- Great day! Enhanced my knowledge of manufacturing and energy industry
- Thank you so much for taking us out into the field. This was so needed!
- To see if a guest speaker from the companies to reach out to the school communities, mostly juniors and seniors
- Thank you for organizing this bus tour. It was truly a worthwhile experience.

This Participant Survey Summary report was compiled by the Workforce Development Institute in close collaboration with:



George Latimer, County Executive
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Westchester County Youth Bureau



Westchester
Community College
State University of New York