Roadmap to a Green Economy
aligning education, workforce and economic development systems

Educating for a Green Economy
PEI PACIFIC EDUCATION INSTITUTE

Agriculture & Natural Resource Center of Excellence

Shelton School District

www.pacificeducationinstitute.org
Workforce Study

**SB 5285 (2017)**

...conduct a study of employment opportunities intended to provide educators with information needed to inform and prepare students for opportunities in field-based, skilled mid-level science, technology, engineering, and mathematics (STEM) oriented occupations in the agriculture, natural resources, environment, and outdoor recreation sectors.
Workforce Study: Key Findings

Publicly available data sources alone are insufficient

• Some jobs don’t show up
• Difficult to define clear sector parameters
• Increasing rates of attrition is not a factor in calculations
• Future Innovation can’t be included
Workforce Study: Key Findings

Statewide Data is not meaningful

• Economic characteristics differ across regions

• “critical demand” jobs vs “high demand”

• Location Quotients & Living Wage differences matter

Poor data disproportionately affects our rural and remote communities

West Urban
Living wage (per hour)
• $13.55 (individual)
• $28.23 (family)
Location Quotient .24

Central
Living wage (per hour)
• $10.31 (individual)
• $23.89 (family)
Location Quotient 5.3

Agriculture

EGE Established in December 2018

Areas of Work

- Assessment of “Green Job” definitions and Washington State legislative history
  - Focus on 3 sectors: Ag., Forestry and forest products, and clean energy

- Regional Site Visits and Employer/CTE Panels
  - Need: integration of sector content with technology
  - Competency-based learning

- Advisory Panel input and Discussions
  - Guided Project work and Roadmap
Advisory Panel

EGE Advisory Panel Members:

- John Aultman, Senior Policy Advisor, Higher Ed. & Workforce Development - Governor's Office
- Ignacio Marquez, Regional Assistant to the Director - Department of Agriculture
- Lynn Longan, Rural Strategies Manager - Department of Commerce
- Alan Hardcastle, Senior Research Manager - WSU Energy Program
- Deena Alley, Director of Academies K-12 - Shelton School District
- Lance Wrzesinski, Program Supervisor Business & Marketing - Office of the Superintendent of Public Instruction
- Jenny Capello, Outreach Coordinator - WorkSource / Res Care
- Roberta McFarland, Director Waskowitz Outdoor School - Highline School District
- Dr. Karen Borders, Director STEM Programs & Outreach - West Sound STEM Network
- William Westmoreland, Director - Center of Excellence for Clean Energy
- Teri Pablo, Director of Career and Technical Education - Yeim School District
- Rachel McAloon, Workforce Development Director - Washington State Labor Council
- Lisa Perry, Community Relations-Washington - Sierra Pacific Industries
- Paul Williams, Shellfish Management Policy Advisor - Suquamish Tribe
- Mary Catharine McAleer, Public Affairs Manager - Weyerhaeuser
- M'Liss DeWald, Director of Education - Quinault Indian Nation
- Don Welander, Director of Career and Technical Education - Shelton School District
- Lindsey Williams, Director - Agriculture and Natural Resource Center of Excellence
- Anna Nikolaeva, Career Connect Washington Manager - Career Connect WA
- Denny Wallace, CTE Program Supervisor Agriculture/FFA - Office of the Superintendent of Public Instruction
- Lucas Rucks, Dean for Workforce Education - Grays Harbor College
- Nova Gattman, Legislative Director - Workforce Training & Ed. Coordinating Board
- Cheryl Fambles, Executive Director - PacMtn Workforce Development Council
- Jason Selwitz, Dean - South Puget Sound Community College
- Dave Wallace, Research Unit Manager - Workforce Training & Ed. Coordinating Board
- Gilda Wheeler, Program Director - WA STEM
Goal 1: Build and incentivize equitable PreK-12 and post-secondary braided pathways for green jobs.

Recommendations:
- Fund the FieldSTEM proviso with an additional $250,000 per year to align Career and Technical Education (CTE) to Community and Technical College (CTC) guided pathways, and career launch opportunities with Career Connect Washington.
- Fund Centers of Excellence to support equitable CTE Dual Credit agreements for consistent green career pathways across Washington.
Goal 2: Strengthen criteria for workforce development projects to diversify the workforce, reach marginalized communities, serve remote and rural community needs, and engage the next generation of natural resource stewards.

Recommendations:

- Fund a green jobs grant program through OSPI or Career Connect Washington to increase paid opportunities for youth age 15-17: Set minimum participation criteria
  - “critical demand,” jobs
  - remote and small rural (communities under 10,000 residents).
  - for Black, Indigenous, People of Color (BIPOC) youth
  - collaborations with Open Doors Youth Reengagement and alternative 9-12 secondary programs.
- Incentivize community-based workforce and economic development projects that lead to green jobs across the state.
Goal 3: Provide green economy, project-based professional learning for educators using materials available in the OSPI Open Education Resources (OER) portal.

Recommendations:

- Engage industry / agencies to inform pathways into green jobs,
- Strengthen professional learning funding for educators and counselors,
- Continue legislative proviso funding for equitable climate science education
  - Support proviso 4 million annually in Governor’s Budget.
  - Set a requirement that projects demonstrate how learning will help individuals and communities mitigate and adapt to climate impacts,
Goal 4: Increase “green economy” visibility

Recommendations:

• Develop standard criteria for “green job” designation at the occupation level.
• Market a standard icon to use for course listings, interactive career and job websites, job applications, and other outreach media.
• Support a re-work of a central, youth friendly website to include searchable green economy jobs.
• Support a re-work of career interest assessments adding in a value for sustainable green jobs.
Goal 5: Collect and disseminate job information based on data that reflects current and future green jobs

Recommendations:

- Support Employment Security Department and the Workforce Training and Education Coordinating Board (WTECB) to work with Workforce Development Councils and green economy sector employers to provide cross-sector occupational demand numbers for green jobs that include local job openings predicted due to emerging trends, retirements and potential for green innovation. (2020 HB 2308)

- Identify currently unaccounted and under-accounted occupations for inclusion in workforce data.
Questions for the Alliance

• How can we ensure we are preparing youth for “critical demand” jobs in STEM fields which are important to our future?

• How can we dedicate STEM funding for programming that leads to a green and just future?

• How can we make sure we have sufficient data for STEM workforce decision making?

• Your Questions?