



Energy Career Pathway

M7 Region 2023-2025



EXPLORE: Click on the links to find the job titles that seem most interesting to you to learn more! Save any jobs you are interested in from this career pathway in your XELLO account so that you can create an Academic and Career Plan (ACP) later on. *Note: Salaries are reflective of the 25th to 75th percentile of earnings in each category.*

Educational Level May also require work experience	Energy Generation & Conservation	Energy Transmission, Distribution & Storage
High School Diploma, Certification	Solar PV Installer * <input type="radio"/> Electrical & Gas Power Line Helper * <input type="radio"/> Utility Locator * <input type="radio"/> Vegetation Management Customer Service Rep * <input type="radio"/> <p style="text-align: center;">Range \$34,496-\$80,661</p>	
Certification or Technical Diploma	Distribution Generation Operator <input type="radio"/> Solar/Wind Energy Technician * <input type="radio"/> Building Automation Technician * Energy Auditor <input type="radio"/> Residential HVAC Technician * <input type="radio"/> <p>Range \$25,588-\$120,552</p>	Lineworker * <input type="radio"/> Service & Metering Technician * Power Distributor & Dispatcher * Utility Technician * <p>Range \$36,906-\$120,552</p>
Registered Apprenticeship	Substation Electrician * Apprentice Plant Attendant * <p>Range \$36,906-\$92,539</p>	Lineworker * <input type="radio"/> Metering Technician * Electrical Apprentice * <input type="radio"/> <p>Range \$34,496-\$107,631</p>
Associate Degree	Substation Technician Electrician * <input type="radio"/> Electrical Drafter <input type="radio"/> Electrical Engineer Technician/ Technologists * <input type="radio"/> Civil Engineer Technician * Nuclear Engineer Technician <p>Range \$43,239-\$92,539</p>	Lineworker/Service Technician * <input type="radio"/> Mapping Technician/ GIS Technician * <input type="radio"/> Electrical Technician * <input type="radio"/> Gas Technician * Systems Control Operator Facilities Manager * <p>Range \$36,906-\$127,900</p>
Bachelor Degree and beyond	Civil Engineers * <input type="radio"/> Electrical Engineer * <input type="radio"/> Wind Energy Engineer * Petroleum Engineer Solar Engineer * Sustainability Specialist <input type="radio"/> <p>Range \$25,588-\$152,987</p>	Specialist/Supervisor * Data Scientist * Cybersecurity * Information Security Analyst * <input type="radio"/> <p>Range \$77,501-\$127,812</p>
Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options

* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!

XELLO = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



Energy Career Pathway In High School



A K12 career pathway must include:

- A sequence of courses (including at least 2 CTE courses)
- Two of the following components: *Career and Technical Student Organization, Work-based Learning, Industry Recognized Credential, College Credit Opportunity*

<p>Career and Technical Education Courses</p>	<p>Must include a sequence of at least TWO Career and Technical Education courses. Should align with the CTE standards for the pathway.</p> <ul style="list-style-type: none"> • • 	<ul style="list-style-type: none"> • CAREER EXPLORATION PROGRAMS
<p>Additional Employer Recommended Courses</p>	<p>Should align with appropriate standards for this pathway.</p> <ul style="list-style-type: none"> • SEI RE100 (Intro to RE) • SEI RE101 (Fundamental Math for Solar) • • 	<p>State:</p> <ul style="list-style-type: none"> • WI K12 Energy Education Program (KEEP) • WI Energy Workforce Consortium • Get into Energy/Get into STEM • Clean Jobs • Green Buildings - career map • Hydrogen/Fuel Cell - career map • Bioenergy - career wheel • Solar - career map • Wind - career map • Clean Energy Careers Videos
<p>Career and Technical Student Organization</p>	<ul style="list-style-type: none"> • WI SkillsUSA • WI FFA 	
<p>Work-Based Learning Program Options</p>	<ul style="list-style-type: none"> • Employability Skills (90 hrs) • Youth Apprenticeship- Architecture & Construction (<i>Electrical focus</i>) (450 hrs/year; 1-2 years) • Youth Apprenticeship- STEM (<i>Electrical Engineering focus</i>) (450 hrs/year; 1-2 years) • Local Work-based Learning Programs that meet state quality requirements 	<p>Regional:</p> <p>Local:</p>
<p>Industry Recognized Credential Options Learn the skills that employers want to see!</p>	<p style="text-align: center;">Energy Generation & Conservation</p> <p style="text-align: center;">First Aid: CPR/AED OSHA 10 WorkKeys/National Career Readiness Certificate GWO Safety Training CEWD Energy Industry Fundamentals Certificate (EIF)</p>	<p style="text-align: center;">Energy, Transmission, Distribution, & Storage</p>
<p><i>Italics = must be 18 years old to obtain</i></p> <p>*This certification is eligible for reimbursement through the technical incentive grant</p>	<ul style="list-style-type: none"> • *LEED Green - Associate level • NABCEP (NWTC Assoc PVA program qualifies students to take exam) 	<ul style="list-style-type: none"> • *CDL • *National Institute for Metalworking Skills (NIMS) <ul style="list-style-type: none"> ◦ Machining Level I- Measurement, Materials & Safety; Machining Level I- Job Planning, Benchwork & Layout • Refrigeration License - EPA 608 • FAA Drone Operator
<p>College Credit Opportunities</p>	<p>You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE.</p>	



Energy Career Pathway

At (Name of School)

Your Academic and Career Plan (ACP) for this career pathway starts here.

Use this page to determine which classes and activities you will take to prepare for this career pathway. Record your plan in XELLO.



<p>Career and Technical Education Courses</p>	<p>Must include a sequence of at least TWO Career and Technical Education courses. Should align with CTE standards for the pathway.</p> <ul style="list-style-type: none"> • CTE Course #1 • CTE Course #2 • CTE Course #3 	<p>CAREER EXPLORATION PROGRAMS</p>	
<p>Additional Employer Recommended Courses</p>	<p>Should align with CTE standards for this pathway.</p> <ul style="list-style-type: none"> • Course #1 • Course #2 	<p>State:</p> <ul style="list-style-type: none"> • • <p>Regional:</p> <ul style="list-style-type: none"> • • <p>Local:</p> <ul style="list-style-type: none"> • • 	
<p>Career and Technical Student Organization</p>	<p>Name of CTSO</p>		
<p>Work-Based Learning Program Options</p>	<ul style="list-style-type: none"> • WBL Option #1 • WBL Option #2 		
<p>Industry Recognized Credential Options Learn the skills that employers want to see!</p> <p><i>Italics = must be 18 years old to obtain</i></p> <p>*This certification is eligible for reimbursement through the technical incentive grant</p>	<p style="text-align: center;">Energy Generation & Conservation</p>		<p style="text-align: center;">Energy, Transmission, Distribution, & Storage</p>
	<ul style="list-style-type: none"> • IRC Name/link #1 • IRC Name/link #2 		
	<ul style="list-style-type: none"> • IRC Name/link #1 • IRC Name/link #2 	<ul style="list-style-type: none"> • IRC Name/link #1 • IRC Name/link #2 	
<p>College Credit Opportunities</p> <p>You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE.</p>	<p style="text-align: center;">College Courses Offered at Your High School</p>		
	<p>Transcripted Credit</p> <ul style="list-style-type: none"> • Name of HS Course #1, IHE granting credit • Name of HS Course #2, IHE granting credit 	<p>AP and/or IB Courses</p> <p>Name of AP/IB Course #1 - Score, College, Course</p> <p>Name of AP/IB Course #2 - Score, College, Course</p>	
	<p style="text-align: center;">College Courses You Can Take at a College Campus</p> <p style="text-align: center;">Application Deadlines:</p> <p style="text-align: center;">October 1st: Spring Courses February 1st: Summer Courses (ECCP only) March 1st: Fall Courses</p>		
	<p>Start College Now</p> <ul style="list-style-type: none"> • Name of College #1, College Course #1 • Name of College #1, College Course #2 	<p>Early College Credit Program</p> <ul style="list-style-type: none"> - Name of College #1, College Course #1 - Name of College #1, College Course #2 - Name of College #2, College Course #1 - Name of College #2, College Course #2 	