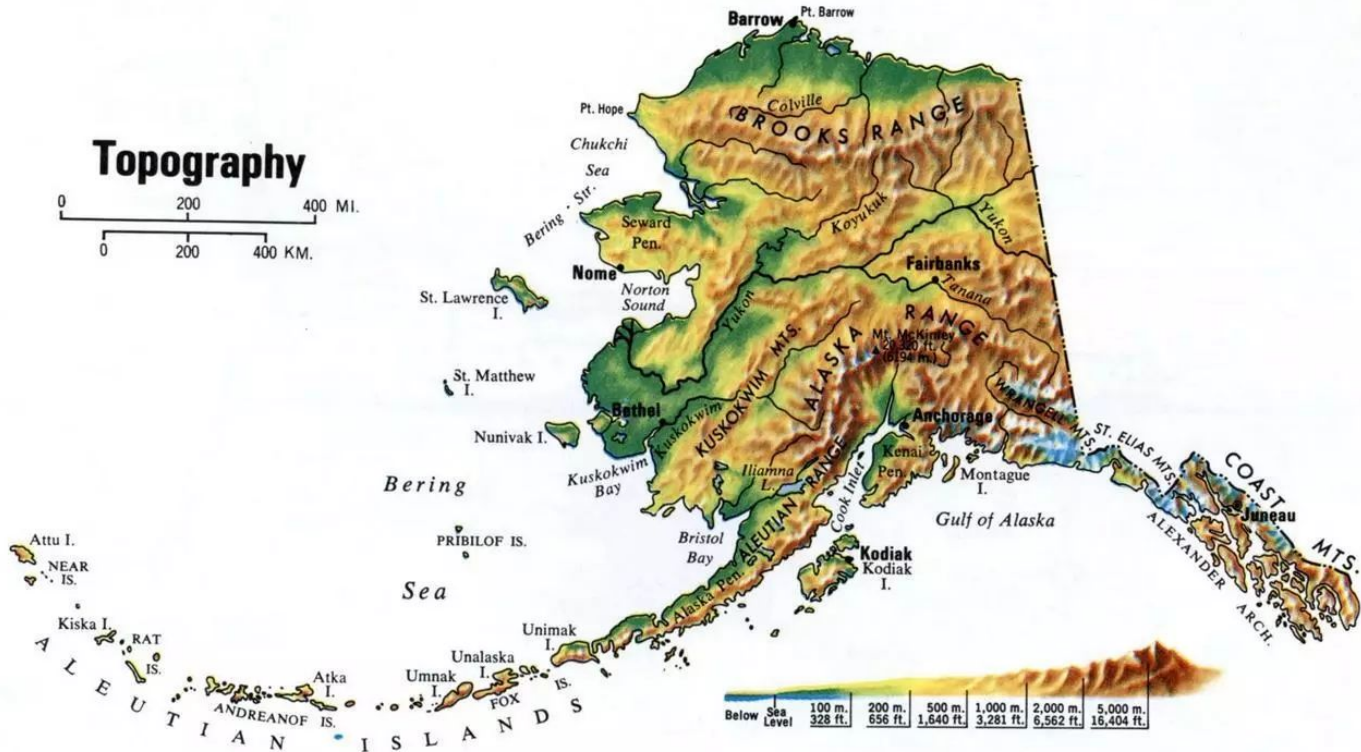


# Solar Education Resources



## Outside of Alaska

# OVERVIEW

- NATIONAL RESOURCES for PROGRAM SUPPORT
- TRAINING RESOURCES

# INTERSTATE RENEWABLE ENERGY COUNCIL



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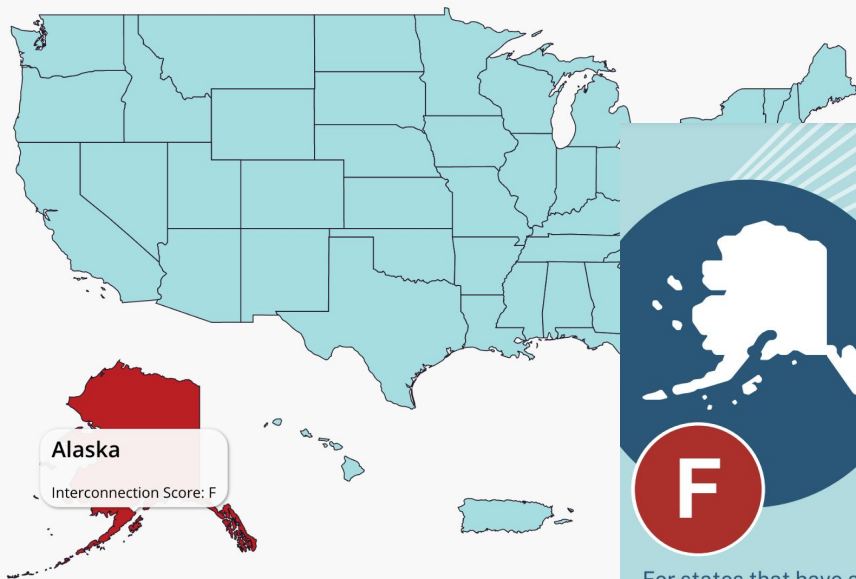
## About IREC

IREC builds the foundation for rapid adoption of clean energy and energy efficiency to benefit people, the economy, and our planet.



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# FREERING THE GRID



## FREERING THE GRID

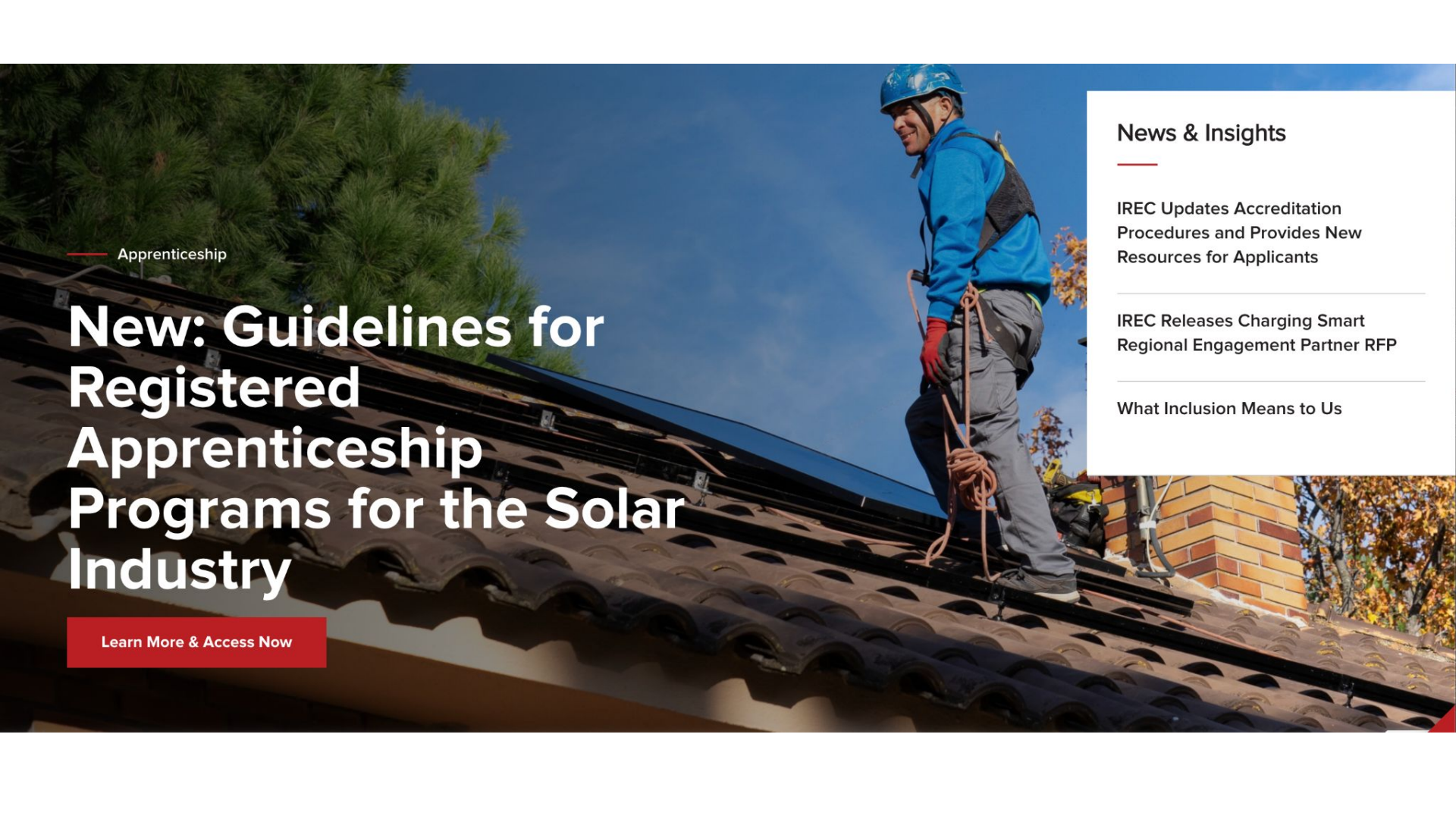
### Alaska | Interconnection Grade

Interconnection policies specify the processes, timelines, and costs associated with connecting distributed energy resources — like solar and energy storage systems — safely and reliably to the grid. Because Alaska has not adopted statewide interconnection procedures, it is recommended that state policymakers standardize interconnection processes and practices through the following actions:

#### Recommendations

Adopt statewide interconnection rules that apply to all state-jurisdictional generator interconnections to standardize the processes, timelines, costs, and reporting requirements across all utility territories.

For states that have adopted statewide interconnection policies, Freeing the Grid scored them based on criteria that fall under the list of categories included below. For a detailed summary of all evaluation criteria, please visit [FreeingtheGrid.org/Criteria](https://FreeingtheGrid.org/Criteria).

A construction worker wearing a blue jacket, a blue hard hat, and a safety harness is working on a roof. The roof has dark solar panels installed. The worker is holding a rope and looking towards the camera. The background shows a clear blue sky and some green trees.

Apprenticeship

# New: Guidelines for Registered Apprenticeship Programs for the Solar Industry

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## News & Insights

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[IREC Updates Accreditation Procedures and Provides New Resources for Applicants](#)

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[IREC Releases Charging Smart Regional Engagement Partner RFP](#)

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[What Inclusion Means to Us](#)





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# National Guidelines for Apprenticeship Standards

Contractor

Employer

Apprenticeships

Renewable Energy

Solar Energy

Workforce Development



# LAUNCH AN APPRENTICESHIP PROGRAM



### Maintenance

- PV Service Technician
- PV Maintenance Technician
- PV Fleet Manager
- Solar Field Technician
- Solar Site Assessor

### Inspection

- PV Site Inspector
- Solar QA Inspector

### Installation

- PV Installer
- PV Electrician
- Installation Site Supervisor
- Master Electrician
- PV Construction Supervisor
- Solar Crew Chief

### Design

- PV System Designer
- PV Design Engineer
- PV Electrical Designer
- Design Consultant
- Structural Engineer

### Sales

- PV Technical Salesperson
- PV Sales Manager
- Solar Sales Associate
- PV Account Manager
- Business Development Associate

### Engineering

- PV Engineer
- PV Project Engineer
- Electrical Engineer
- Mechanical Engineer
- Field Project Engineer

### Commissioning

- Interconnection Manager
- Solar Project Developer
- Solar Site Assessor
- Utility Interconnection Engineer

PV Installer Specialist Certification

PV Design Specialist Certification

PV Commissioning & Maintenance Specialist Certification

PV Associate Credential Education or Experience Pathways

PV Technical Sales Certification

PV Installation Professional Certification

Energy Storage Installation Professional

PV System Inspector Certification

### Installation

- PV Installer
- Solar Crew Chief
- PV Electrician
- Master Electrician
- Installation Site Supervisor
- PV Construction Supervisor

### Maintenance

- PV Service Technician
- PV Maintenance Technician
- PV Fleet Manager
- Solar Project Developer
- Solar Field Technician

### Project Management

- Project Manager
- Project Assistant
- Project Director
- Solar Project Developer

### Design

- PV System Designer
- PV Design Engineer
- PV Electrical Designer
- Design Consultant
- Structural Engineer
- PV Design Manager

### Sales

- PV Technical Salesperson
- PV Sales Manager
- PV Territory Manager
- Solar Sales Associate
- PV Account Manager
- Business Development Associate

### Marketing

- Marketing Manager
- Art Director
- Creative Director
- Advertising Director

### Consulting

- Solar Sales Consultant
- Marketing Consultant

### Integration

- Commissioning Specialist
- Electrical Tech.
- Systems Architect

### Manufacturing

- Assembly Supervisor
- Process engineer
- Fabricator
- Production Manager

### Site Assessment

- Solar Site Assessor
- Project Developer
- Interconnection Manager

### Inspection

- PV Site Inspector
- Solar QA Inspector
- PV Construction Inspector

**NABCEP**<sup>®</sup>

Raising Standards. Promoting Confidence.



# TRAINING RESOURCES

Outside of Alaska  
Examples

Online



midwest renewable  
energy association  
established 1990



SOLAR ENERGY  
INTERNATIONAL



Remote  
Energy



heatspring

everblue TRAINING

# MIDWEST RENEWABLE ENERGY ASSOCIATION



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PV Labs & Design Scenarios (PV 304)

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Roof-Mount PV System Design & Installation Lab (PV 312)

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Solar Plus Storage Package (PV 450)

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# Solar Energy International (SEI)

Navigation bar with social media icons (Facebook, RSS, Twitter, YouTube, LinkedIn), utility icons (Info, Shop, Online Campus, News, Contact), and a Donate button. A search bar is located on the right side.

Logo: SOLAR ENERGY INTERNATIONAL  
Tagline: Educate. Engage. Empower.

Menu items: TRAINING & CERTIFICATION, CONTRACT SERVICES, STUDENTS & ALUMNI, OUR GLOBAL IMPACT, PROGRAMA HISPANO

Search bar: Search... [Q]



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Solar Train

Solar Train

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Free Learn



## Delivery Method

Online Courses

Hands-on Lab Training

Classroom Learning

On-Demand

Cursos en español

Live Webinars

SEI Textbooks



## SEI Certificate Program

Residential & Commercial Phot

Residential & Commercial Phot  
Online

Battery-Based Photovoltaic Sys

Solar Business & Technical Sale

Developing World Applications

Solar Professionals Trainer



## Certification & Licensing

NABCEP Certification

NABCEP Continuing Education Training

NABCEP PV Associate Exam Prep Package

Solar Safety Training Package

State Licensing Requirements

Certificado Profesional en Energía Solar para  
Ingenieros del CIAPR

# HEATSPRING



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[Get Certified](#) ▾

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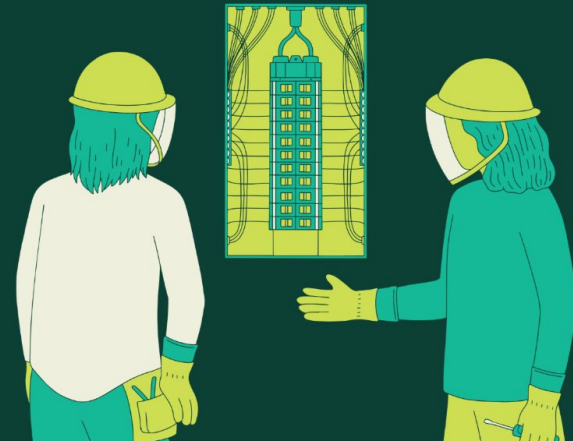
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## Workforce transformation

Courses on solar, heat pumps, building science, energy storage, and more. Get NABCEP, BPI, EPA, IGSHPA, OSHA, FAA certified.

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Search



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- All
- Free
- Paid

## Course type

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- Bundle
- Pre-order

## Category

- All
- Solar
- Energy Storage
- Heat Pumps
- Building Performance
- Utilities
- Technology

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**Featured** Solar Utilities Utility Interconnection Electrical Transmission Utility-Scale

### Navigating Transmission Interconnection Queues

Learn how to navigate the complex world of transmission interconnection queues and get your generating project connected faster

 Tim Taylor

**Free**

★ 4.8 👤 84 students ▶ 1h 3m ⚙️ CEUs

Solar NABCEP Design and Installation Certification Prep

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 Sean White

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Renewables™

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the curve on the  
energy transition

2025 COMING SOON

### ASK MAYFIELD ANYTHING

webinar series  
with Ryan Mayfield





# MAYFIELD RENEWABLES



## An Overview of Microgrid Feasibility Studies (FREE)

**INSTRUCTOR: ZACH SNYDER**

**Online | Virtual | In-Person | 1 Hour**

[> More Details](#)

**REGISTER FOR A FREE WORKSHOP**

# MAYFIELD RENEWABLES



UL 9540A and  
Energy Storage Fire  
and Offgas Risks



Energy Management  
with Power Control  
Systems and  
UL 3141



Insulation  
Resistance Testing  
for PV Systems



# EVERBLUE

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Electrification >

Solar Training >

LEED Certification >

Cybersecurity Training >

Innovation Training >

Leadership Training >

## SOLAR TRAINING COURSES

PV101 Solar PV Associate

PV201 Solar PV Installer

PV201B Solar PV Installer Live Add-On

PV202 Solar PV Designer

PV203 Solar PV Sales Professional

Build a Solar Training Bundle

Corporate & Group Training Solutions

## EARN A SOLAR CERTIFICATION

NABCEP PV Associate

NABCEP PV Design Specialist

NABCEP PV Commissioning Specialist

NABCEP PV Installation Professional

NABCEP PV System Inspector

## NEW TO SOLAR? START HERE!

Solar Training & Certification Overview

How to Become a Solar Contractor

How to Earn NABCEP Certification

Solar Career Resources

Solar Frequently Asked Questions



# WEBSITE RESOURCES

Interstate Renewable Energy Resources (IREC)

<https://irecusa.org/>

FREEING THE GRID AK REPORT

<https://freeingthegrid.org/wp-content/uploads/2023/06/FTG-Alaska-1.pdf>

North American Board of Certified Energy Practitioners (NABCEP)

<https://www.nabcep.org/>

Midwest Renewable Energy Association (MREA)

<https://midwestrenew.org/>

Solar Energy International

<https://www.solarenergy.org/>

Remote Energy

<https://www.remoteenergy.org/>

HeatSpring

<https://www.heatspring.com/>

Mayfield Renewables

<https://www.mayfield.energy/>

EverBlue

<https://everbluetraining.com/>