

USA: Capacity Building for Renewable Energy

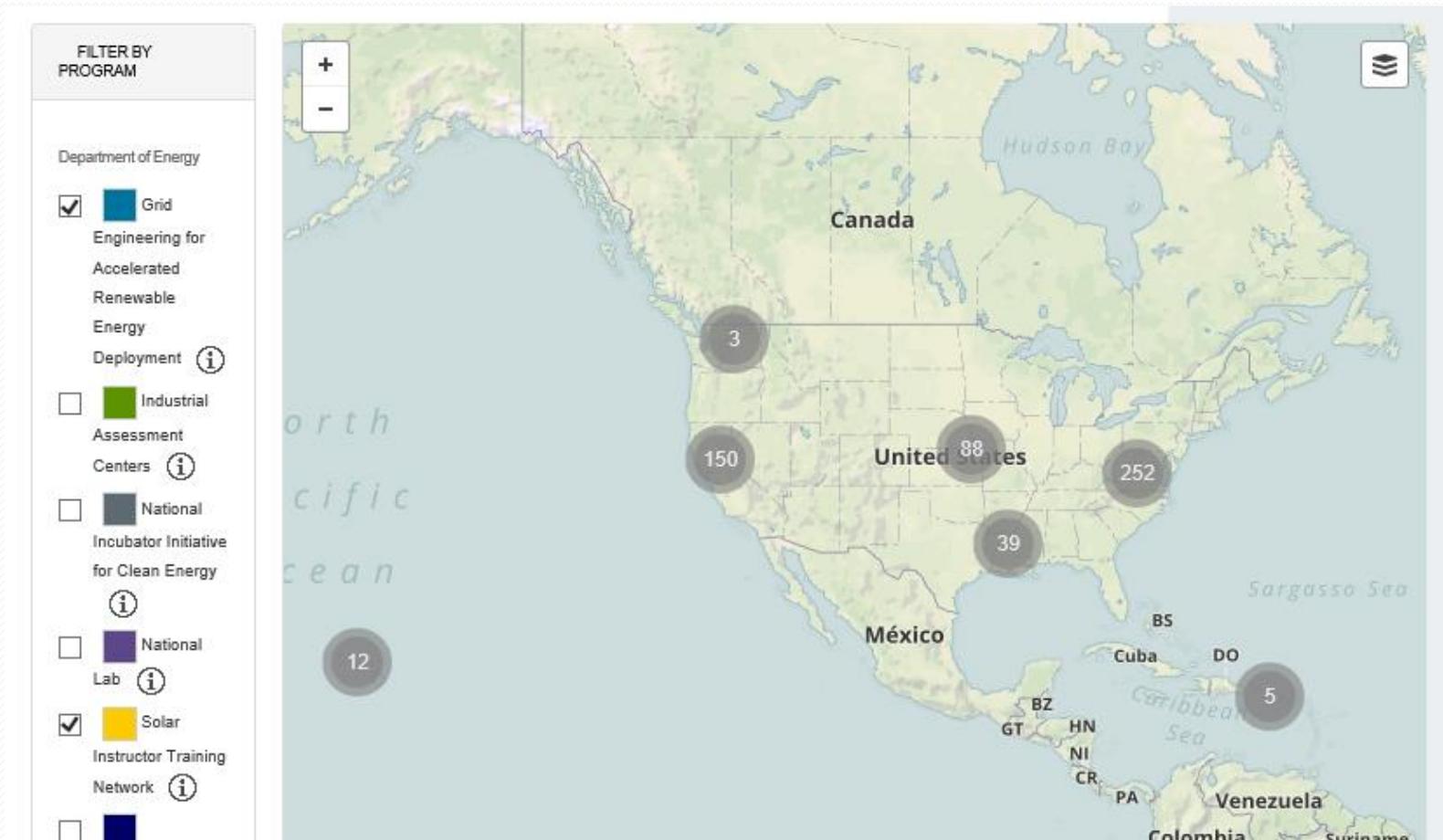
EGNRET -50
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Human capacity building for renewable energy development occurs at federal and state levels of government and the private sector

- **Federal programs are led by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy**
- **State programs are often linked with state universities**
- **The private sector and non-government organizations support training programs across the U.S.**

Federal Energy and Manufacturing Workforce Training Programs

Source: <https://www.energy.gov/eere/education/federal-energy-and-manufacturing-workforce-training-programs>

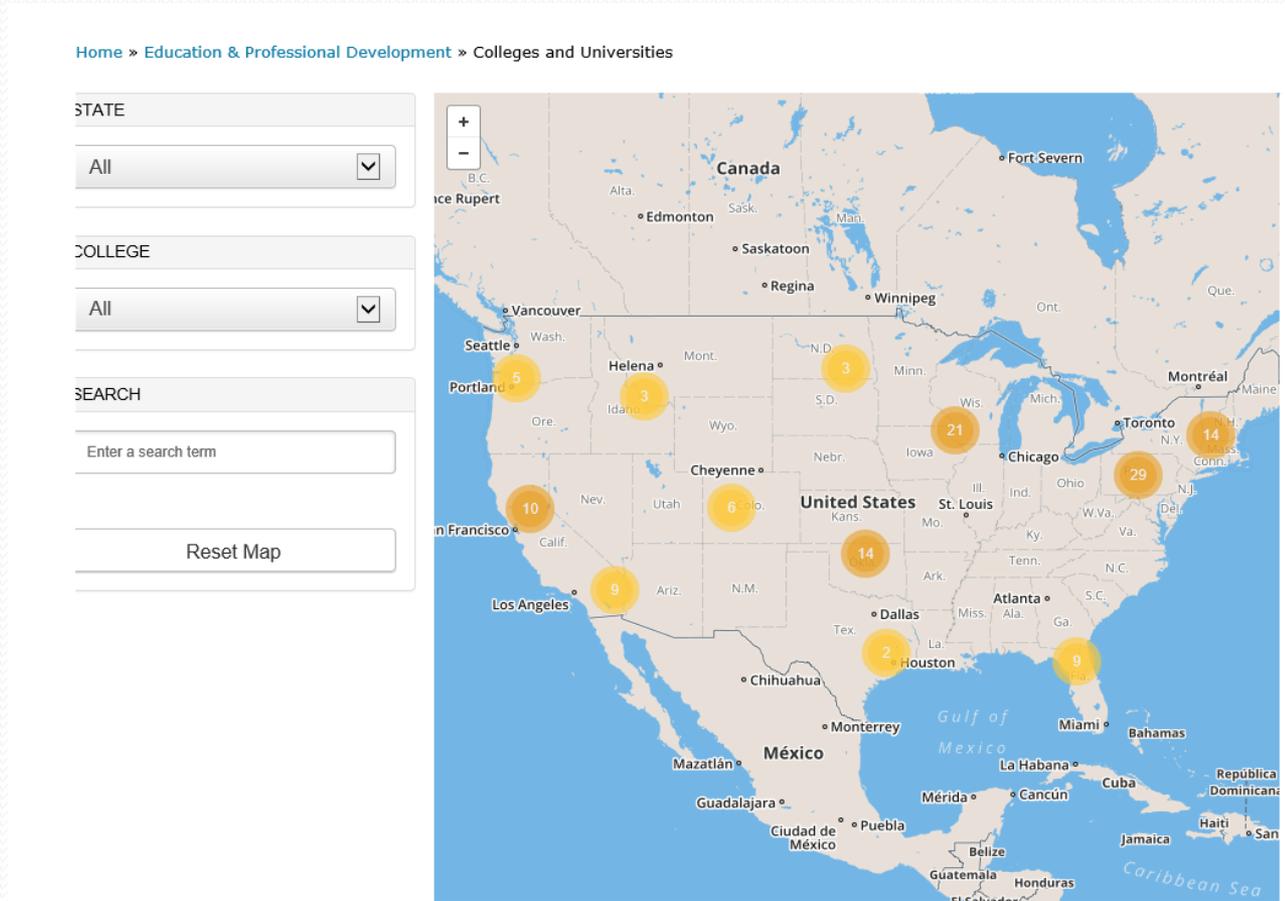


Examples of training programs show linkages with state universities and the private sector

- Troy, New York: Hudson Valley Community College
 - Solar Installation Instructor Training
 - <http://www.irecusa.org/workforce-education/solar-instructor-training-network/>
- Austin, Texas: American Youth Works
 - Solar Installation Instructor Training
 - <http://www.irecusa.org/workforce-education/solar-instructor-training-network/>
- Santa Clarita, California: Electricore, Inc. SWUSA
 - Grid Engineering for Accelerated Renewable Energy Deployment
 - <http://www.irecusa.org/workforce-education/grid-engineering-for-renewable-energy-deployment-gearred/>

DOE EERE Also provides a listing of colleges and universities with renewable energy training programs

Source: <https://www.energy.gov/eere/education/colleges-and-universities>



State programs- Florida

- Florida Solar Energy Center (FSEC)
 - A research institute of University of Central Florida
 - FSEC has a broad range of training programs
 - Express PV Certification
 - SunSmart E-Shelters
 - EV Transportation Center
 - Course: Installing Photovoltaic Systems
 - Course: Selecting Solar Water Heating for Zero Energy Green Homes
 - <http://www.fsec.ucf.edu/en/>

State programs- Colorado

- Colorado Mountain College offers three solar energy certification programs
 - Basic Solar Photovoltaic
 - Photovoltaic installer
 - Solar Thermal Installer
- Courses prepare students for North American Board of Certified Energy Practitioners (NABCEP) certification
- <https://coloradomtn.edu/programs/solar-energy/>

NGO's work across the U.S.

- The Solar Foundation

- A nonprofit, nonpartisan organization dedicated to advancing the use of solar and solar-compatible technologies worldwide
- Produced the National Solar Jobs Census 2017 which showed 250,271 solar jobs in 2017, a 168% increase from 2010
- Solar Training Network matches job candidates with training and career opportunities
 - Supported by the DOE EERE Solar Energy Technology Office
- <https://www.thesolarfoundation.org/>