

Capacity Building and Skills for Tomorrow's Solar Jobs

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Vision: 100% renewable energy for all, used efficiently and wisely.

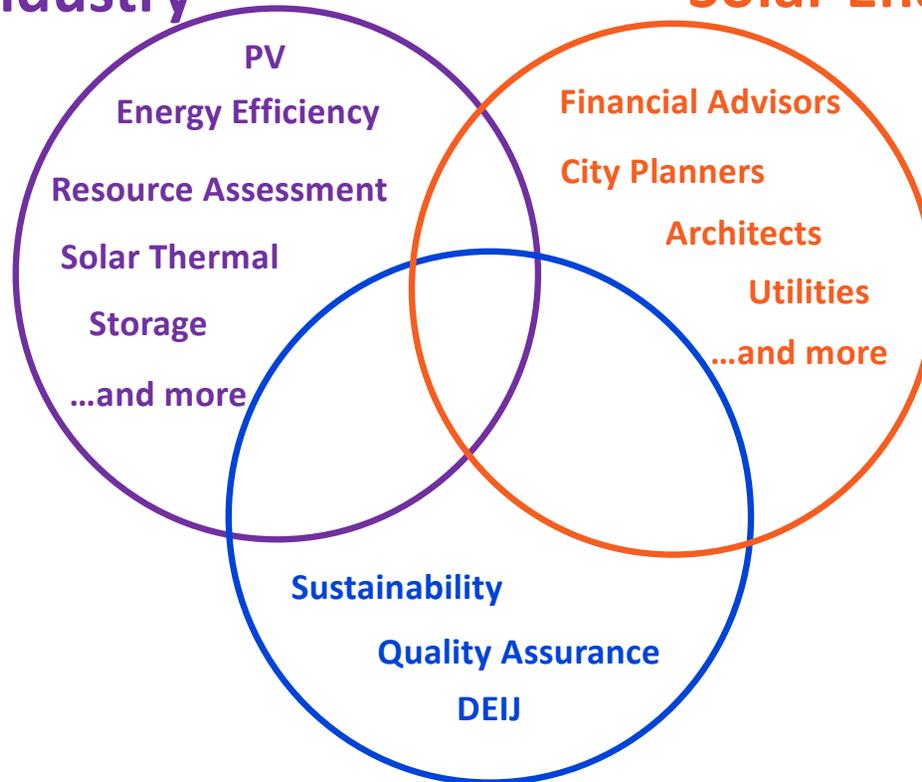
ISES is a non-profit UN-accredited membership NGO with national sections like **ASES**

- **Represents a diverse membership of academics, researchers, energy practitioners, consultants, students, businesses and advocates.**
- **Works together with like-minded organizations like GSC from countries all around the world to advance the renewable energy transformation.**
- **Helps build capacity through diverse publications, webinars, conferences, and other activities.**

Energy Transformation Creates JOBS

SOLAR Industry

Solar Enabling Industries



Sustainability (efficiency, wise use, circular economy), Quality Assurance, and DEIJ (diversity, equity, inclusion, and justice) professionals are central to all industries.

SKILLS for Tomorrow's Solar Jobs

Technical Skills

Skill sets vary for different job categories.
Certifications and degrees acknowledge skills.



Interpersonal Skills

These are important for all jobs.

Communication, Teamwork, Critical Thinking
Flexibility, Creativity, Respectful Listening
Time Management



*Capacity building programs need to
value, develop and review
interpersonal skills.*

CAPACITY BUILDING for Tomorrow's Solar Jobs

K-12 Education
Technician Training
College and Post-Graduate Education
Professional Development
Public Education

Here are some program EXAMPLES and ACTIONS for each category

K-12 Education

Introduce children to solar and future jobs, and encourage them to be “influencers”

Million Solar Stars involves students worldwide in the process of deploying solar power

<https://www.millionsolarstars.org/about>



SolarSchoolhouse uses hands-on teaching tools

<https://solarschoolhouse.org>



ACTION: Develop networks for sharing K-12 resources and funding opportunities globally.

Technician Training

Enable people to get trained and re-trained for solar jobs.



<https://www.solarenergy.org>

GLOBAL SOLAR CONNECTION INITIATIVE

Online training to combat sense of isolation due to COVID-19

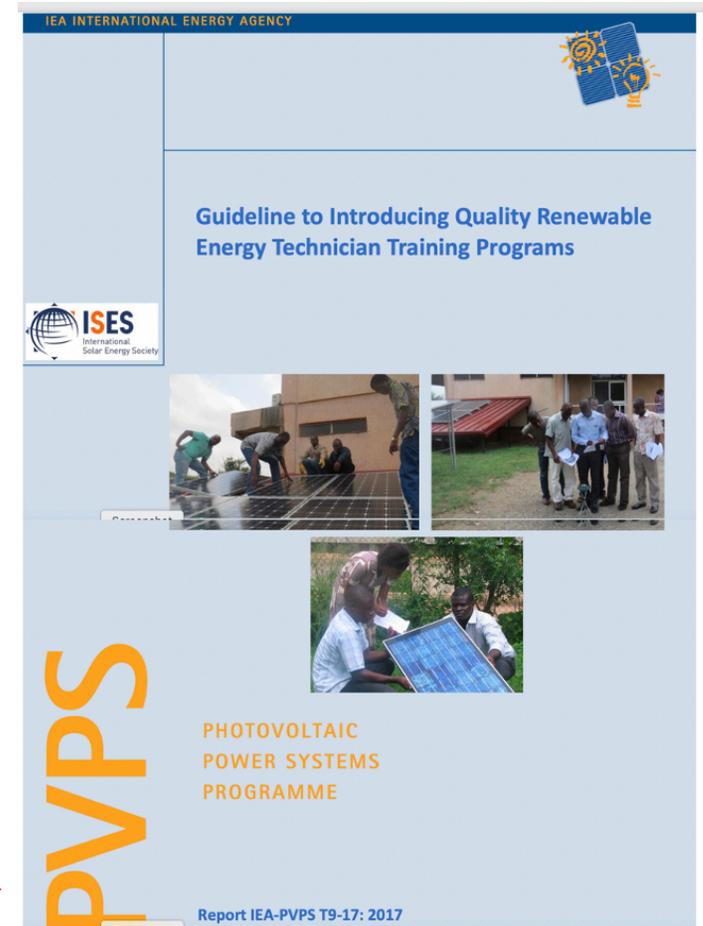
Bright Solar Futures - workforce training program for high school and underemployed youth

<https://www.energy.gov/eere/solar/project-profile-philadelphia-energy-authority-fy2018-workforce-initiatives>

Solar Ready Vets <https://www.energy.gov/eere/solar/solar-ready-vets-pilot-program> prepares veterans for PV careers

ACTION: Develop global program for solar installer training and certification

Guidelines →



College and Post-Graduate Education

Develop and expand skills for solar jobs requiring higher education credentials



Solar Academy combines practice and theory in the areas of solar and building physics, scientific computing, material science, business, law, sociology, architecture and urban planning. <https://www.univ-smb.fr/solaracademy/>



International Symposium on Renewable Energy Education (ISREE)

- Explores the latest developments and new initiatives in renewable energy education worldwide;
- Identifies the best ways to train future leaders in renewable energy;
- Highlights how best to prepare citizens to work toward a healthy environment and better future;
- Encourages research centres to collaborate in educating and training highly-skilled professionals in renewable energy.

ACTION: Develop platforms and other mechanisms for sharing information and expertise on all program areas across countries.

Professional Development

Provides solar basics to help solar enabling professionals better incorporate solar into their work.

Solar Enabling Industries: Real estate professionals, lawyers, emergency responders, city and regional planners, financial advisors, policy makers

**ACTION: Develop and/or expand programs for specific industries
-Webinars, Workshops, Forums, Publications, Networking-**

Public Education

Increases solar adoption and support



ACTION: Expand innovative, engaging programs like tours and infographics to communities worldwide.

ISES Infographics



BREWED BY THE SUN



SOLAR THERMAL HEAT FOR BEER BREWING

A vibrant sunset scene with a bright sun low on the horizon, casting long, golden rays of light across a sky filled with soft, colorful clouds. The colors transition from deep orange near the horizon to a bright yellow and then to a deep teal at the top.

THANK YOU

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