



Measuring Energy Infrastructure Resilience and Reliability with PEER



Katherine Hammack



LEED



PEER

How can I improve my power quality?

How is my power generated?

How can I reduce my power costs?

What happens if I lose power?

How reliable is my power?

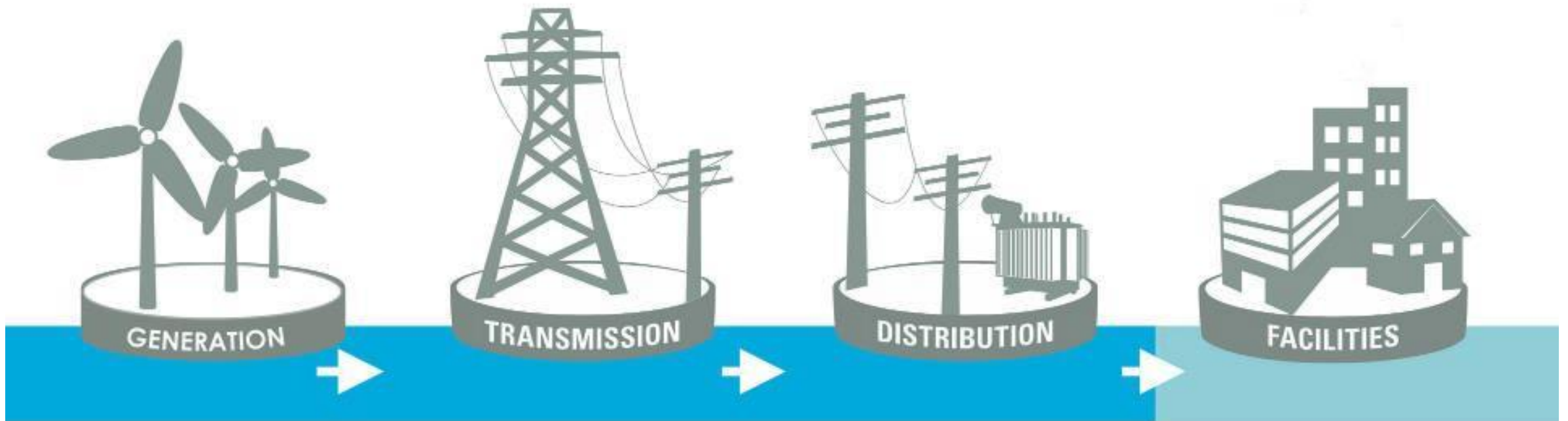
What are my power supply options?





Aggregates the different approaches for grid modernization into a single, simple, holistic standard that can be utilized to assess a wide variety of projects.

Performance Excellence in Electricity Renewal™



The 6 credit categories of PEER are:



**RELIABILITY AND
RESILIENCY**



**ENERGY
EFFICIENCY
AND ENVIRONMENT**



**OPERATIONS,
MANAGEMENT &
SAFETY**



GRID SERVICES



**REGIONAL
PRIORITY**



**INNOVATION &
EXEMPLARY
PERFORMANCE**

Benefits of PEER to Projects



Highlights on-going
commitment to
excellence especially
in sustainability



Additional LEED
points at the building
level



Risk assessment
done for critical
system and failure
modes are
identified



“There are so many definitions of the smart grid today. The PEER certification really aligned with what our version of what the modern grid was... I think having a third party looking at these metrics to ensure you are measuring them in the right way.” – David Wade, CEO, EPB Chattanooga

Implementation Applications of PEER

- Utilize PEER to select awardees of State-led grant or demonstration programs
(e.g., State of Kentucky and Pennsylvania SEP programs)
- Create a rider to fund microgrid projects or other utility-led projects
- PEER allows regulators to consistently evaluate projects across a common set of metrics and verify the outcomes with PEER



U.S. DEPARTMENT OF
ENERGY

Office of
ENERGY EFFICIENCY & RENEWABLE ENERGY



How to get started

Education & Training

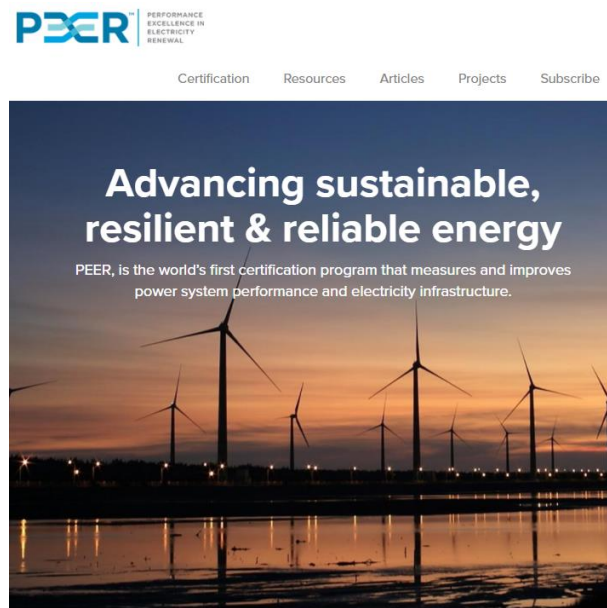
Earn the PEER Pro Badge



On-line classes
[USGBC.org/education](https://www.usgbc.org/education)

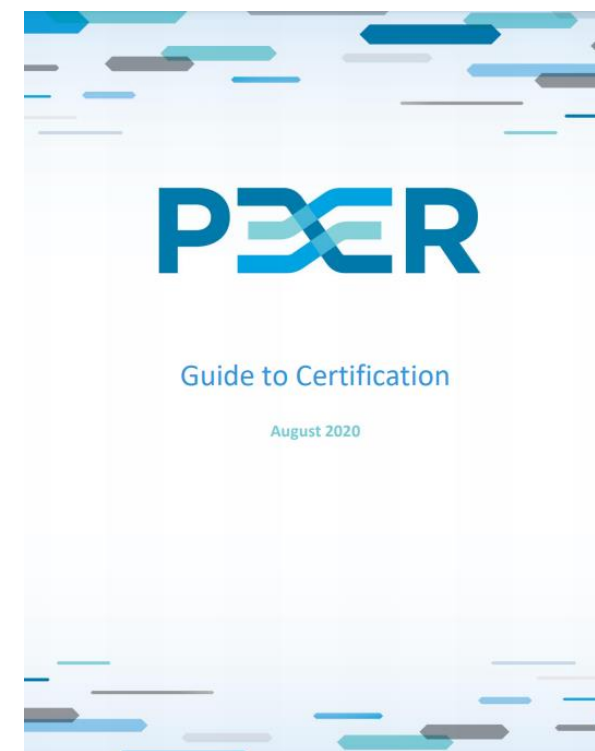
Registration & Certification

Resources and Case Histories



[PEER.GBCI.org](https://www.pear.gbci.org)

Project Certification



PEER@GBCI.org