



International PV Module Quality Assurance Forum

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Kevin Lynn

Lead for Systems Integration

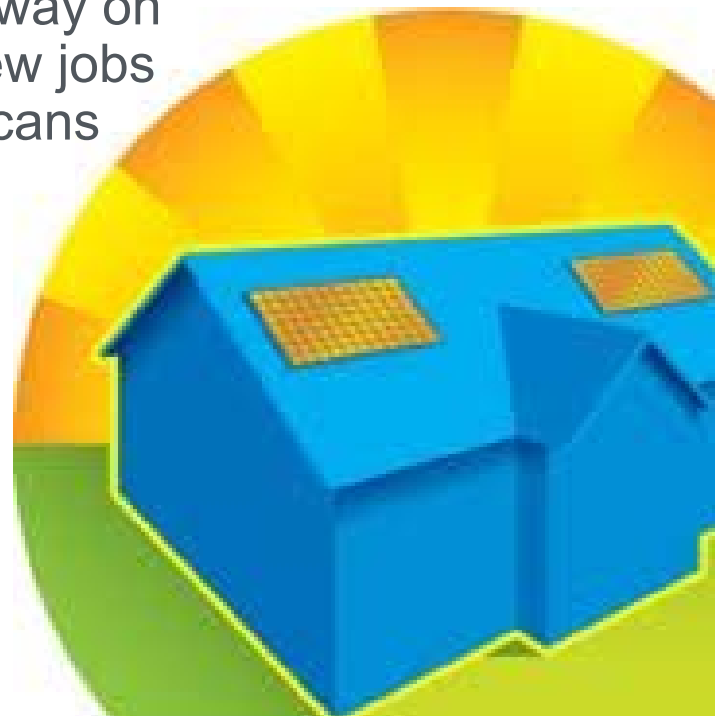
Solar Energy Technologies Program

Kevin.Lynn@ee.doe.gov



What if??

- **This is a reality:** A subsidy-free solar electricity infrastructure with an LCOE of 5-6 c/kWh without subsidies
- **Jobs and Competitiveness:** Innovation that ensures the U.S. leads the way on clean energy, supporting new jobs and opportunities for Americans
- **National Energy Security:** Independence from fossil fuel and increased national security
- **Healthy Environment:** Huge carbon reduction and cleaner air ...



What are we doing now: Implementing “Imagine the world”?



SunShot

- **Introducing SunShot:** *we will enable this world*
- We are working with US industry, national labs and academia to innovate and lay the foundation for a subsidy-free solar electricity infrastructure that is broadly competitive with fossil fuel based electricity

- To the reliability engineer determining the warranty
- To the customer choosing between manufacturers
- To the investor justifying a billion dollar investment
- To the policy maker in determining determining guidance for developing a subsidy program
- To the insurance company trying to set rates

- One company's failure hurts the entire industry
- If every company learns about every failure through personal experience, there may be a lot of black eyes
- Sharing information about what failures can occur and how to test for them can strengthen the entire industry

- Upfront qualification of a few modules is not enough - *Every* module must have adequate quality
- Every company needs a top-notch QA program
- As a community, we must demand this and find a way to confirm that the QA program is robust

Let's Make, then Use Those Solutions!

- Once we have developed the best tests, let's educate consumers to make use of these
- Create and use standards for both upfront testing and ongoing QA programs
- Thank you for working together to create the framework on which we can build a solar-powered world!

Thank You



Thank You!

