

ASA

Architectural Solar Association

Integrating Architectural Solar
A US Market Perspective

Christopher Klinga, PE
Technical Director, ASA

Stan Pipkin
Regional Manager, ASA

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Who We Are

The Architectural Solar Association (ASA) promotes the use of Architectural Solar technologies in the built environment through research, education, policy guidance & certification in the pursuit of protecting people and the planet.

We envision a future in which every building & structure leverages its full potential as an energy generating asset to help minimize human impact on the environment.

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Christopher Klinga P.E.

*Technical Director, Architectural Solar Association
Principal, SolMotiv Design*



As a 14-year veteran to the solar industry with an extensive background in solar installation design and product development, Chris brings a unique skill-set to all solar integration opportunities. Chris gained the bulk of his experience working for Lighthouse Solar and Lumos Solar, developing and distributing cutting edge solar modules and racking systems that are some of the most robust architectural solar solutions on the market today. His innovations have proven to lead the niche market they developed and are currently distributed globally. Chris regularly provides consulting services on the most challenging solar installations and solar product development efforts. Most notably those that integrate solar into the architectural envelope. He holds a B.S. in Mechanical Engineering from the University of Colorado in Boulder, CO. Chris has obtained NABCEP PV Installer certification and is a licensed professional engineer in Colorado and Texas.



Stan Pipkin

*US Regional Manager, Architectural Solar Association
Owner, Lighthouse Solar & Pipkin.*



Since 2007, Stan has co-managed and owned Lighthouse Solar in Austin, TX. He has been involved in the shaping of local and state policy to foster the growth of solar energy. In addition, Stan runs an architectural design practice, Pipkin., focusing on residential, commercial and civic projects. He has found considerable overlap between integrated solar design and holistic architectural design services. While managing and growing all aspects of Lighthouse Solar, Stan worked closely with a number of industry innovators, including Lumos Solar on the development of its architectural solar product suite. Stan holds a Master of Architecture from the University of Texas, his skill-set sits at the nexus of solar energy and architecture.



Architectural Solar

Solar energy generating technologies that have architectural significance or are coordinated with the architectural design process.

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Architectural Solar Education for Design and Construction Professionals



Objective

ASA & NREL will educate design and construction professionals on key principles of Architectural Solar; solar energy generating technology that has architectural significance or is coordinated with the architectural design process.

Project Impact

The project will equip solar and building industry professionals with the skills to work at the intersection of solar energy and the building industry. It will break down key barriers inhibiting the widespread adoption of architectural solar, increasing the penetration of on-site renewable energy and enabling grid-efficient buildings (GEB). The program will promote architectural solar innovation and deployment.

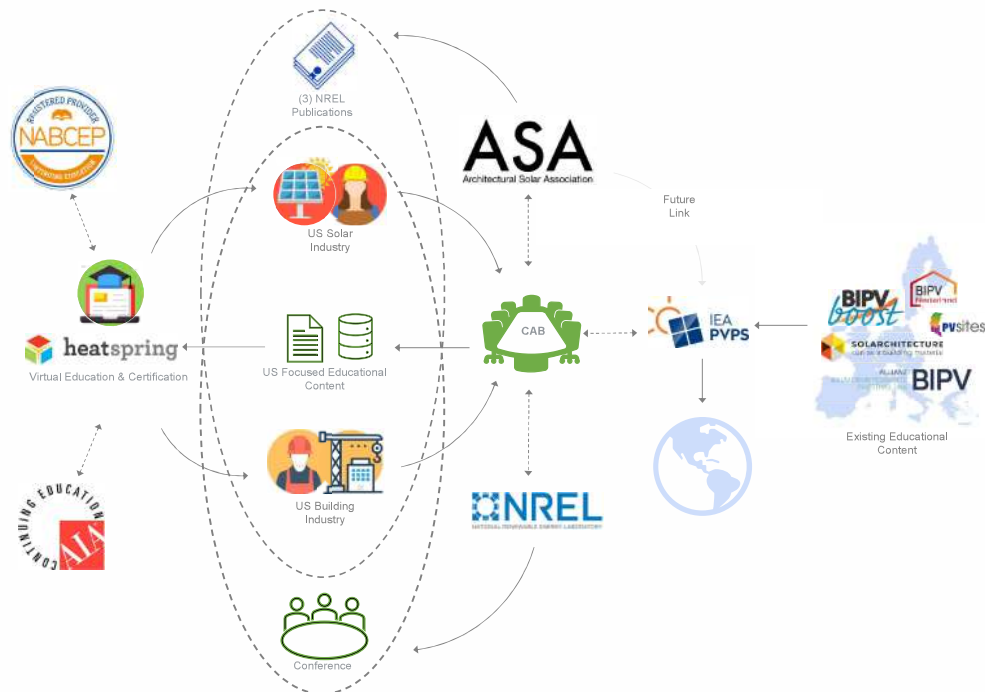
Duration: 3 Years

All thanks to the help from the following supporting organizations;



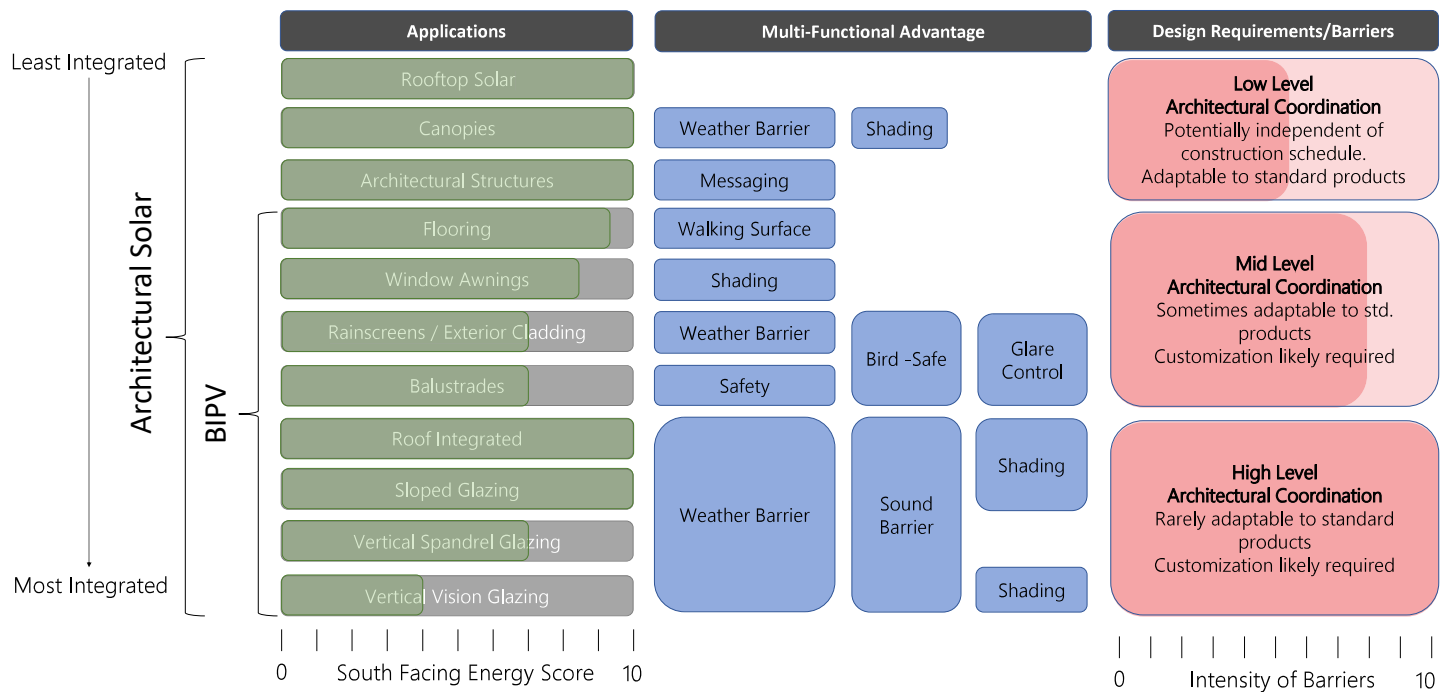
	• Formation of the Content Advisory Board (Quarterly Meetings)
	• Existing Research Synopsis
	• (3) Publications & Accompanying Webinars sponsored by NREL
	• Free Architectural Solar Short Course (~ 10 min Video)
	• US Architectural Solar Project Database
   	• 20-hr Architectural Solar Course (Paid) • 3 modules administered via Heatspring.com • AIA & NABCEP Accredited • DOE Program integration
	• Building Industry Tradeshow Seminar

Key Milestones



ASA Educational Framework



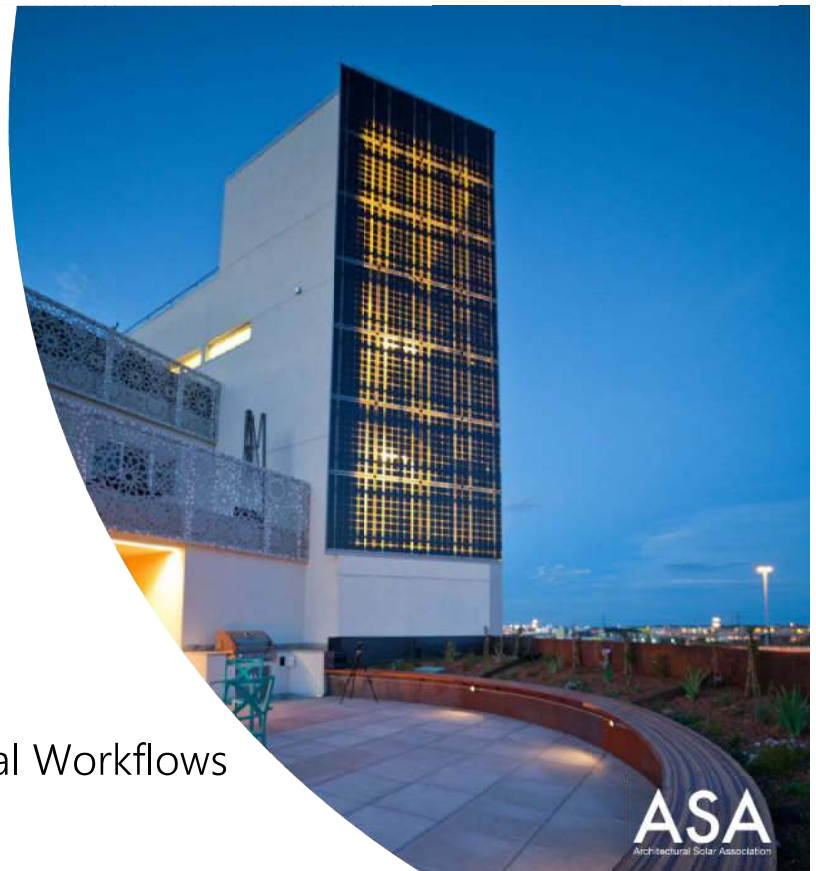


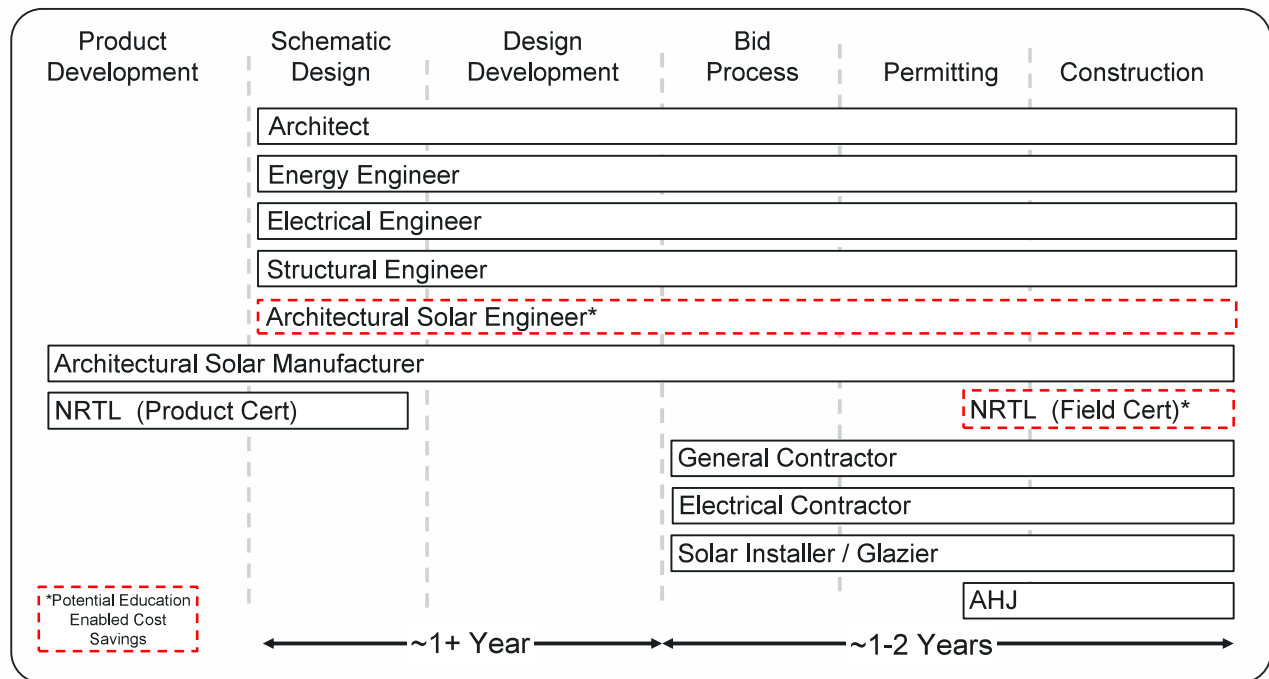
Architectural Applications

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Market Barriers

- Lack of Continuing Education
- Lack of Awareness
- High soft costs
- Limited Supply Chain
- Building Industry Adoption
- Standards Development
- Incompatibilities with Architectural Workflows





Architectural Solar Process



Thank you!

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