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innovation lighthouse

Spotlight on Solar Facades

Summary

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Some of the questions we heard from real estate developers, building owners and building operators include:

- What is the status of the solar facades market?
- How mature are technologies on the market?
- How do the technologies work?
- What are their impacts?
- What should I look out for when planning and implementing a solar facade project?

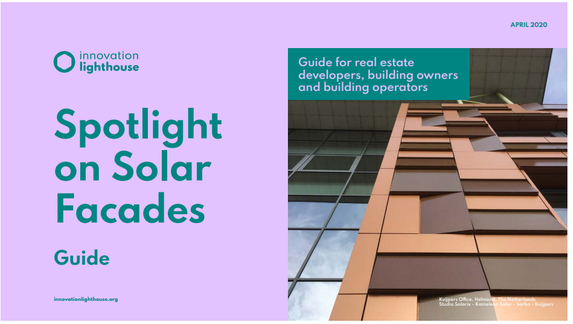
We set out to answer these questions through the Spotlight on Solar Facades project. We created the following:

Spotlight on Solar Facades **Guide**

Solar Facade **Workbook**

Solar Facade **Directory**

Spotlight on Solar Facades Guide describes:

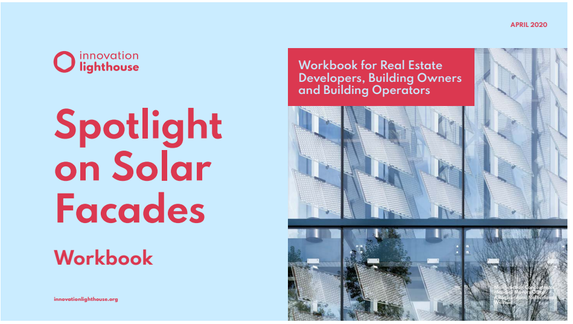


- The Spotlight on Solar Facades Guide was developed through a series of interviews and site visits. The guide contains insights, implementation advice, and lessons learned shared directly from solar facade companies and real estate owners.
- Advances in building-integrated photovoltaics (BIPV) products - suitable for generating electricity and heat on building facades - are creating new opportunities for commercial real estate developers, owners and operators to generate value from building envelopes.
- Energy-generating components can be integrated with cold, warm and hybrid facades.
- Due to the innovative nature of this sector, multi-disciplinary knowledge is required for their design and implementation.
- The solar facade market is made up of dozens of companies offering technologies that enable building owners to utilize building facades to generate electricity and solar energy. Some examples include:

eigenenergie.net · FRONTWISE FACADES · onyx · KameleonSolar · PHYSEE · SAINT-GOBAIN

studio solarix · solar visuals · SAULE TECHNOLOGIES · TULiPPS Solar System Solutions · ZIGZAGSOLAR

The Spotlight on Solar Facades Workbook



The workbook contains a series of criteria, questions, and implementation considerations for real estate developers, building owners and building operators considering a solar facade.

The workbook aims to help real estate developers, building owners and building managers understand and mitigate risks associated with solar facades.

The results from the workbook can be used in the following ways:

- For creating the parameters for an open call for tenders for a solar facade supplier
- For developing guidelines to be included into an architectural or engineering brief
- As a conversation aid to be used when engaging directly with solar facade suppliers

Every building and project is unique, and the results from the workbook allows real estate companies to identify the most appropriate technologies to consider and partners to collaborate with.

The Solar Facades Directory

The Solar Facades Directory is a listing of companies offering solar facade technologies. It provides real estate companies with a starting point for the implementation of a solar facade.

It includes:

- Company overview: name, summary, year founded, headquarters, website and contact information
- Technology overview: types of solar cells used, cold/ventilated facades, warm facades, cost per square meter, modeled energy production/square meter, etc.
- Description of the part(s) of the facade system is the company involved with
- List of buildings where the technology has been implemented
- Other BIPV products offered and emerging innovations
- Implementation notes and considerations

Interested in accessing the workbook and directory? Contact Innovation Lighthouse here.

About the Spotlight on Solar Facades Project

The Spotlight on Solar Facades project has been published in three parts:

- The Spotlight on **Solar Facades Guide**
- The Spotlight on **Solar Facades Workbook**
- The Spotlight on **Solar Facades Directory**

To learn more about the Workbook and Directory, **contact Innovation Lighthouse.**

Project Lead:

Innovation Lighthouse

Innovation Lighthouse helps building owners implement sustainability solutions that work.

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