



BUHLE POWER

Financing for a 120-foot Photovoltaic Container Project





Overview

Why is a financial model important for a solar PV project?

The growing adoption of renewable energy is driving a global transformation in how we produce and consume power, with solar photovoltaics (PV) leading the charge. Building a robust financial model for a solar PV project is crucial for evaluating project feasibility, managing complex risks, and ensuring investor confidence.

How does a solar PV project finance?

Financing Structure and Debt Sizing – Debt Financing Structure: Solar PV projects often utilize project finance structures involving a syndicate of lenders. Model debt terms including senior and subordinated tranches, interest rates (fixed vs. floating), tenors, debt sculpting, interest rate hedging mechanisms, and grace periods.

What should be included in a solar PV financial model?

Before diving into the numbers, it is essential to define the scope of the financial model and establish all underlying assumptions. A comprehensive solar PV financial model should typically include the following key parameters:

- **Project Capacity:** Specify the capacity of the solar PV system in megawatts (MW_DC and MW_AC).

What financing structures can be used for PV projects?

There are many types of financing structures that can be applied to PV projects, such as corporate financing, which typically has an on-balance-sheet structure as aforementioned, project financing, crowd sourcing, or even personal credit lines.



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Government Incentives
Small-Scale Projects
Utility-Scale Projects
Funding For Smaller-Scale Projects
Self-Financing
Solar Leasing
Funding For Larger-Scale Projects
De-Risking Revenue: Power Purchase Agreements
For larger utility-scale projects, more funding is usually required. There are a variety of options available, each reliant on different levels of third-party involvement. From the developer's perspective, the ideal scenario would be to obtain the funding required from the cheapest sources of capital, keeping most of the project's upside, whilst minimizing risk. See more on pfnexus greendealflow

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