

OWNED ONSITE SYSTEMS

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Owned, onsite renewable energy assets are those developed or purchased by a company who is also responsible for operation and maintenance (O&M) of the system. Owned, onsite systems provide retailers with the ability to offset onsite grid electricity consumption, potentially reduce Scope 2 carbon emissions, and provide a long-term hedge and/or savings opportunity against future grid prices. Companies with a surplus of capital may see value in this structure, as it has the potential to provide the highest return on investment when comparied to other onsite development options, such as onsite Power Purchase Agreement (PPA) or leasing, where benefits are shared with a third party in exchange for external financing and system maintenance.

WHY SHOULD YOU USE IT?

- Your company has CAPEX to invest and prefers to own the property's renewable energy assets to realize all benefits
- Your company is comfortable coordinating O&M of the system
- Your company wants the reputational benefits of supporting renewable energy and the visual impact that an onsite installation can make on shopping customers
- Your company has rooftop, parking lot, or open ground space at its premises and wants to take advantage of its potential to make and save money
- Your company wants to potentially increase the installation site's property value

WHO ELSE IS USING IT?

Generally speaking, more retailers opt for a PPA renewable project financing structure instead of a cash purchase structure due to the upfront CAPEX cost of the installation. Examples of retailers that have used a cash purchase structure include IKEA, who owns and operates each of its onsite store solar PV energy systems. Walmart has used cash purchase for select installations and is exploring direct investment in projects and GM made its first direct purchase of a 2.2-megawatt solar array in Ohio in 2014.

WHAT ARE THE ADVANTAGES?

FULLY REALIZED BENEFITS

After the system is paid off, all electricity produced is essentially free.

ENHANCED RETURNS

Creditworthy entities may be able to enhance project returns via the use of debt, eliminating the need to post CAPEX for the project.

POSITIONS COMPANY AS A SUSTAINABILITY LEADER

Offers good PR, marketing, and community relations opportunities.

POTENTIAL TO REDUCE FACILITY EMISSIONS

Renewable energy certificates (RECs) generated by the project must be retained by the retailer in order to make environmental claims. Alternately, project RECs may be arbitraged and replacement RECs purchased.

HIGHER NPV THAN OTHER OPTIONS

Cash purchase systems typically have higher project net present value compared to PPA structure because there are no third-party financing costs and no credit carrying costs.

FEWER CONTRACT RISKS THAN OTHER OPTIONS

Owned installations eliminate the long-term counterparty risk present in PPA and leasing deals.



WHAT ARE THE DOWNSIDES? WHO SHOULD YOU TALK TO

LARGE CAPITAL INVESTMENT

Funding an installation with CAPEX may not be desirable or possible for some companies

FINANCIAL RETURNS

The capital investment may not pass the necessarily thresholds for companies with aggressive internal project financing hurdles (e.g. IRR, ROI, payback).

RENEWABLES ONSITE DOES NOT MEAN 100% RENEWABLE ENERGY

Installation capacities are very dependent on available space. On-site DG installations may only offset 5-25% of the site's electric consumption, which may not have a big impact on overall site spending and/or emissions reduction

PEFORMANCE RISKS

Cash purchase systems without strong production guarantees will reduce the developer's incentive to have the system produce as many kWh as possible. Developers may not be willing to offer strong production guarantees if they are not contracted to conduct all O&M work.

OPEX EXPENSES

The retailer may be responsible for O&M expenses for the life of the system.

PROPERTY TAXES

Owned systems may increase a site's property taxes.

NET METERING POLICIES

Owned systems will need to comply with and consider utility or state-specific net metering policies. Net metering policy may change the optimal size of an onsite installation and can materially change project economics.

ADDITIONAL COSTS & CONSIDERATIONS

There may be some insurance considerations and associated costs that retailers need to account for if they purchase a renewable system to cover catastrophic loss, system damage from inclement weather, etc.

WHO SHOULD YOU TALK TO NEXT?

Engage a broad group of stakeholders early on to ensure there is a thorough understanding of the deal structure, benefits, risks, and implementation. Stakeholder groups that should be involved include Facilities, Procurement/Energy, Finance/Accounting, and Risk Management.

Post-deal, Procurement/Energy should be involved on an ongoing basis as having onsite distributed generation will likely impact grid purchasing strategy, supply contracts, and potentially utility tariff rates.

Engage with an independent consultant (e.g. <u>Schneider</u> <u>Electric</u>, <u>Edison Energy</u>) that is very familiar with this space to help retailers understand the product structures, the opportunities that exist for end-users, and the financial impact of purchasing a renewable asset. There are some markets that are much more suitable for capital purchases of renewable assets, and a consultant can help retailers identify the optimal markets to focus on.

Several NGOs and coalitions are available to help companies accelerate the adoption of renewable energy and provide expertise, such as the Rocky Mountain Institute's <u>Business</u> <u>Renewables Center</u> and the <u>Corporate Renewable Energy</u> <u>Buyers Principles</u>, supported by World Wildlife Fund and World Resources Institute.



THE PROCESS

