

Key Criteria for Siting Photovoltaic (PV) Solar Power Installations on Landfills and Brownfield Sites

Technical & Economic Feasibility for a Closed Landfill to Host a Renewable Solar Power Installation

Landfill Characteristics

- Engineered, closed "cap"
- Minimal settlement
- Landfill cell typically closed for > 10 years

Appropriate Geographic Location

- Urban location
- Priority here is access to I/C infrastructure (see Interconnection)

Project Economic Viability & Thereby, Project Financing Options

- Equity
- Debt

Adjacent Interconnection Point

- Best if < 1/4 Mile (~\$1MM/mile)
- Existence of a LFG-to-electricity generator IC point is a bonus

Land Control Mechanism(s)

- e.g. Feasibility of a long-term lease (~30 yrs) or purchase
- Developer liability must be avoided

Ease of Project Permitting on a Closed Landfill Site

- With reference to restricted-use covenants
- Strategy: Formulate addendums to existing site closure docs

Consistency with Site Owner's (Green) Corporate Goals

- Sustainability criteria

Defined Power Offtake & Sales

- Adjacent/on-site load (private offtake exist?)
- PPA w/ utility via tariff
- Third party sales via PPA

State Mandated Renewable Portfolio Standards (RPS)

- Existence of Renewable Energy Credits
- Other incentives?
- Grants