

RE-Powering America's Land

Evaluating the Feasibility of Siting Renewable Energy Production on Potentially Contaminated Land

Pleasantville
and Egg Harbor,
New Jersey

RE-Powering: EPA/NREL Feasibility Studies

The U.S. Environmental Protection Agency's (EPA) *RE-Powering America's Land* Initiative encourages renewable energy development on current and formerly contaminated land, landfills and mine sites when it is aligned with the community's vision for the site. EPA and the U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) are collaborating on a project to evaluate the feasibility of siting renewable energy production on potentially contaminated sites. This effort pairs EPA's expertise on contaminated sites with NREL's expertise in renewable energy. The feasibility studies provide site owners and communities with a technical and economic assessment of installing renewable energy on a given site.

Site Description

The Price's Pit Landfill property consists of 26 acres in Pleasantville and Egg Harbor Township, New Jersey. The site functioned as a sand and gravel excavating operation from the early 1960s until 1968. The site operated as a landfill from 1969 to 1976, when landfill operations were terminated. At that time, clean sand and gravel were placed over the open excavation. Additional cleanup actions at the site include landfill capping and construction, as well as operation of a ground water extraction and treatment system.

Community Goals

Because the site will be relatively level with sparse vegetation once the cap is installed, it may be suitable for a renewable energy system. The local utility company maintains power lines at the site and a substation adjacent to it, which is also an advantage for solar development. The site is also located six miles from Atlantic City and within the Atlantic County Industrial Zone, so a renewable energy facility would greatly enhance the development potential of the surrounding area.

Feasibility Study: Solar

EPA and NREL conducted a study on the potential for solar power generation on the Price's Pit Landfill site. The feasibility study evaluated the technical and economic opportunities and challenges at the site. The completed study:

- Provides a preliminary analysis of the viability of the site;
- Assesses solar resource availability;
- Identifies possible system size, design and location; and
- Reviews the economics of the proposed system.

The Price's Pit Landfill site could host a solar photovoltaic (PV) array that could potentially generate 1,901 megawatt hours (MWh) annually. Approximately 8.2 acres are currently appropriate for installation of a PV system at the site. This chosen reuse should be an attractive option for investors under current renewable energy credit (REC) market conditions.

Price's Pit Landfill Pleasantville and Egg Harbor, NJ

Site Facts:

Site type: Superfund
Renewable technology: Solar

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The information presented in this fact sheet is from the site's initial proposal, site visit(s), discussions with community stakeholders, and other information collected in preparation of the feasibility study. This fact sheet is for informational purposes only and may not reflect the site's current regulatory or remediation status.

For more information, visit www.epa.gov/renewableenergyland or contact cleanenergy@epa.gov

