

Site Redevelopment Profile

North Carolina State University
(Lot 86, Farm Unit #1) Superfund Site

Carter-Finley Stadium
Raleigh, North Carolina 27607

Property Overview

Size

1.5 acres

Current Site Uses

- Carolina Solar Energy LLC operates a 75.6-kilowatt solar facility at the site.

Use Restrictions

- Use of the site's fenced area is restricted.
- Well installation and groundwater use are prohibited.

Surrounding Population

3,590

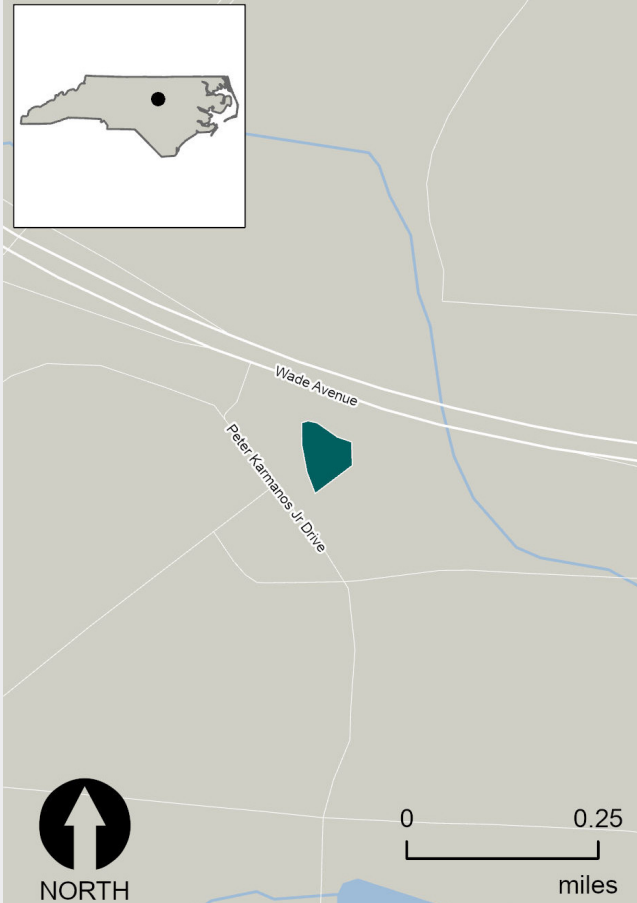
1 MILE

80,899

3 MILES

208,729

5 MILES



A map of the site in North Carolina.



Solar panels on the capped part of the site.

Site History and Redevelopment Timeline

1969 - 1980

NCSU disposes of wastes from science laboratories and agricultural research facilities at the site.

1986

EPA places the site on the National Priorities List.

1996

EPA selects the remedy for the site.

1999-2006

EPA, NCDEQ and NCSU treat and cap soils and extract and treat groundwater.

2006

Construction of the site remedy finishes.

2007

Solar facility operations begin at the site.

History and Cleanup

A former waste disposal area for North Carolina State University (NCSU) science laboratories and agricultural research facilities is now home to a 75.6-kilowatt (kW) photovoltaic solar array. EPA, the North Carolina Department of Environmental Quality (NCDEQ), and NCSU worked with a local solar company to support the site's successful redevelopment.

From 1969 to 1980, NCSU disposed of solvents, pesticides, heavy metals, acids and low-level radioactive laboratory wastes in trenches on part of the 1.5-acre area, resulting in soil and groundwater contamination. EPA added the site to the Superfund program's National Priorities List in 1986. Between 1999 and 2006, EPA, NCDEQ and NCSU treated and capped soils and extracted and treated groundwater. Capped areas were revegetated. Groundwater monitoring is ongoing.



The holding tank for treated water behind the groundwater treatment building.

Redevelopment

Following cleanup, Carolina Solar Energy LLC (CSE) looked at the site and saw an opportunity for the area to become a community asset. The company worked with NCSU to design and build the 12-array solar project. CSE designed the facility to fit well with the site's remedy, using a recycled plastic foundation system that allowed the project to be built and ballasted on top of the cap. The 432-panel system came online in June 2007. Under the terms of a lease from the State of North Carolina, CSE will own and operate the system until 2027. CSE sells the electricity generated by the project to Duke Energy. The site's redevelopment illustrates how Superfund sites can host renewable energy projects that provide communities with significant economic and environmental benefits.



The control unit for site solar panels.



Solar panels and monitoring wells.

Contacts

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