

Alternative Energy Projects at Superfund Sites

Status Update and Highlights from Across the Country

December 2023



EPA's Superfund Redevelopment Program helps communities return formerly contaminated lands to productive use. Many Superfund sites are well suited to support alternative energy production, including solar, wind, landfill-gas-to-energy, geothermal, hydropower and biomass projects. About a quarter of projects are able to offset some or all on-site energy demands for cleanup efforts. In other areas, energy produced on Superfund sites serves to advance cleaner and more cost effective energy technologies. About 64% of alternative energy projects are happening at sites in communities with potential environmental justice concerns.

Alternative Energy at Superfund Sites

Number of Superfund Sites: 96
Number of Projects: 138
Installed Capacity (MW): 587
Energy Production (MWh): 23,365,983



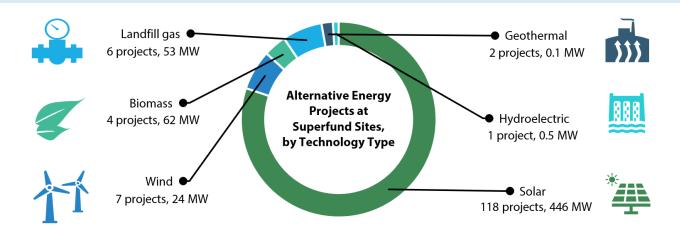
1,966,834 HOMES

Installed capacity of alternative energy facilities at Superfund sites is enough to power more than 1,966,834 homes for one year



The largest alternative energy facility is Greenleaf Power's Plainfield Renewable Energy biomass cogeneration plant at the Gallup's Quarry Superfund site in Plainfield, Connecticut. The 37.5-megawatt facility uses waste wood to generate enough electricity to power the equivalent of about 40,000 homes in Plainfield. The facility provides a market for waste biomass materials that would otherwise be taken to a landfill or left to decay, leading to off-gassing of methane and other greenhouse gases.

In collaboration with <u>EPA's RE-Powering America's Land Initiative</u>, the Superfund Redevelopment Program is <u>supporting reuse planning</u> at Superfund sites with renewable energy assessments at six sites. These assessments characterize alternative energy sources, stakeholder priorities, financial impacts and site suitability. EPA's Superfund Redevelopment Program is collaborating with state and federal agencies and The Nature Conservancy to determine areas most suitable for solar and other renewable energy development on the Carson River Mercury site. Several areas within the site have been identified as potentially suitable for solar. These areas will be further explored by The Nature Conservancy as part of a statewide effort called Mining the Sun. This effort is a collaboration between The Nature Conservancy and the Nevada Mining Association to promote the development of renewable energy plants on historic mining sites in Nevada.



Alternative Energy Spotlight – Global Sanitary Landfill

Old Bridge Township, New Jersey

The Global Sanitary Landfill Superfund site covers 57.5 acres. Much of the site is bordered by wetlands and residential areas are located north and west of the site. Today, people's exposure to the contaminants at the site remain under control. Annual monitoring of groundwater and wetlands is ongoing.

AC Power LLC, a solar developer specializing in previously disturbed properties, identified the site's reuse potential in 2017 and retained outside counsel and experts to evaluate site-related risks and responsibilities. They proposed to place a 2.8 megawatt solar array atop the landfill cap. In 2021, the New Jersey Board of Public Utilities awarded the project capacity under the second year of its Community Solar Pilot Program, enabling the development to move forward. After Old Bridge Township's approval of the Global Landfill project, AC Power collaborated with New Jersey Resources Clean Energy Ventures (NJRCEV), which became the project's long-term owner and operator.

The project became operational in October 2023, providing power to about 400 homes. The design of the solar facility is compatible with the site's cleanup plan, ensuring the long-term protectiveness of human health and the environment.

For more information, please visit www.epa.gov/superfund/globalsanitarylandfill.

Site Timeline

1968 to 1984

Global Landfill Reclaiming Corporation used the area for solid waste disposal.

1968 to 1977

Disposal operations buried drums containing paint, paint thinner and various solvents in the landfill. Pollutants leaking from the landfill contaminated groundwater under the site.

1984

A failure in the landfill's structure exposed hazardous wastes to nearby wetlands. Global Landfill Reclaiming Corporation stopped all disposal operations.

1989

EPA added the site to the Superfund program's National Priorities List.

1991

EPA and the New Jersey Department of Environmental Protection (NJDEP) selected a cleanup plan for stabilizing and capping the landfill.

1997

EPA, with NJDEP concurrence, selected a cleanup plan for groundwater monitoring, excavation and disposal of contaminated sediment, and five years of ecological monitoring.

2009

EPA approved the engineering design for the cleanup.

2012

The site's potentially responsible parties finished implementing the cleanup plans.



Image used with permission of AC Power.

These figures are estimates, based on publicly available developer information, communication with EPA staff and the National Renewable Energy Laboratory's PVWatts calculator (pvwatts.nrel.gov/pvwatts.php).

² Based on average annual electricity consumption of 11,880 kwH per household per year, from www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references.

*ARROJET GENERAL CORP. *AMERICAN CYANAMID *AMERICAN CYANAMID *ANISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA) APACHE POWDER CO. *AZD008399263 *ARROUR ROAD *ARSENIC TRIOXIDE SITE *BARKHAMSTED-NEW HARTFORD LANDFILL *BRICK TOWNSHIP LANDFILL *BRICK TOWNSHIP LANDFILL *BROOKHAVEN NATIONAL LABORATORY (USDOE) *CAMP PENDLETON MARINE CORPS BASE *CA17002353 *CAMP PENDLETON MARINE CORPS BASE *CHEVRON QUESTA MINE *CHEVRON QUESTA MINE *CIBA-GEIGY CORP. *CHEVRON WATER CONTROLL *COMBE FILL NORTH LANDFILL *NJD980785638 *Solar *COMBE FILL NORTH LANDFILL *NJD980785638 *Solar *CHARLES GEORGE RECLAMATION TRUST LANDFILL *NJD001502517 *Solar *CHEVRON QUESTA MINE *CIBA-GEIGY CORP. *CIDA-GEIGY CORP. *CINDAMINISON TOWNSHIP (BLOCK 702) *GROUND WATER CONTAMINATION COMBE FILL NORTH LANDFILL *NJD980785638 *Solar *CONTINENTAL STEEL CORP. *LONDON WATER CONSTRUCTION BATTALION CURTIS SPECIALTY PAPERS *DAVISVILLE NAVAL CONSTRUCTION BATTALION CURTIS SPECIALTY PAPERS *DAVISVILLE NAVAL CONSTRUCTION BATTALION CENTER *ELIZABETH MINE *ELIZABETH MINE *ELIZABETH MINE *ELIZABETH MINE *FORT DETRICK AREA B GROUND WATER *PORT DETRICK AREA B GROUND WATER *FORT DETRICK AREA B GROUND WATER *FORT DETRICK AREA B GROUND WATER *FORT TOTAL STEEL CORP. *FORT TOTAL LANDFILL SITE) *FORT TOTAL LANDFILL SITE) *FORT TOTAL STEEL CORP. *FORT TOTAL STEEL SOLAR *FORT GEORGE G. MEADE *FORT TOTAL SOLAR *FORT TO	Site	EPA ID	Technology Type
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*CINNAMINSON TOWNSHIP (BLOCK 702) RID980785638 Solar GROUND WATER CONTAMINATION COMBE FILL NORTH LANDFILL NID980530596 Solar *CONTINENTAL STEEL CORP. IND001213503 Solar, Wind CURTIS SPECIALTY PAPERS NID057143984 Solar *DAVISVILLE NAVAL CONSTRUCTION BATTALION CENTER *DELILAH ROAD NID980529002 Solar *E.I. DU PONT DE NEMOURS & CO., INC. (NEWPORT PIGMENT PLANT LANDFILL) *ELIZABETH MINE VTD988366621 Solar *ELISWORTH AIR FORCE BASE SD2571924644 Solar *F.E. WARREN AIR FORCE BASE WY5571924179 Wind *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT DIX (LANDFILL SITE) NJ2210020275 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER CAD071530380 Solar	*CHEVRON QUESTA MINE	NMD002899094	Solar
GROUND WATER CONTAMINATION COMBE FILL NORTH LANDFILL *CONTINENTAL STEEL CORP. *IND001213503 *Solar, Wind CURTIS SPECIALTY PAPERS NJD057143984 *Solar *DAVISVILLE NAVAL CONSTRUCTION BATTALION CENTER *DELILAH ROAD NJD980529002 *Solar *E.I. DU PONT DE NEMOURS & CO., INC. (NEWPORT PIGMENT PLANT LANDFILL) *ELIZABETH MINE VTD988366621 *ELLSWORTH AIR FORCE BASE SD2571924644 Solar *F.E. WARREN AIR FORCE BASE WY5571924179 Wind *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER	CIBA-GEIGY CORP.	NJD001502517	Solar
*CONTINENTAL STEEL CORP. IND001213503 Solar, Wind CURTIS SPECIALTY PAPERS NJD057143984 Solar *DAVISVILLE NAVAL CONSTRUCTION BATTALION RI6170022036 Solar CENTER *DELILAH ROAD NJD980529002 Solar *E.I. DU PONT DE NEMOURS & CO., INC. DED980555122 Solar (NEWPORT PIGMENT PLANT LANDFILL) *ELIZABETH MINE VTD988366621 Solar *ELLSWORTH AIR FORCE BASE SD2571924644 Solar *F.E. WARREN AIR FORCE BASE WY5571924179 Wind *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT DIX (LANDFILL SITE) NJ2210020275 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER CAD071530380 Solar	•	NJD980785638	Solar
CURTIS SPECIALTY PAPERS *DAVISVILLE NAVAL CONSTRUCTION BATTALION CENTER *DELILAH ROAD *E.I. DU PONT DE NEMOURS & CO., INC. (NEWPORT PIGMENT PLANT LANDFILL) *ELIZABETH MINE *ELLSWORTH AIR FORCE BASE *F.E. WARREN AIR FORCE BASE *FORT DETRICK AREA B GROUND WATER *FORT DETRICK AREA B GROUND WATER *FORT GEORGE G. MEADE *FRONTIER FERTILIZER NJD057143984 Solar RI6170022036 Solar Solar *I6170022036 Solar *BI6170022036 Solar *FORT DETRICK AREA B GROUND WATER MJD980529002 Solar *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT GEORGE G. MEADE MD9210020275 Solar *FRONTIER FERTILIZER	COMBE FILL NORTH LANDFILL	NJD980530596	Solar
*DAVISVILLE NAVAL CONSTRUCTION BATTALION CENTER *DELILAH ROAD *E.I. DU PONT DE NEMOURS & CO., INC. (NEWPORT PIGMENT PLANT LANDFILL) *ELIZABETH MINE *ELIZABETH MINE *ELISWORTH AIR FORCE BASE *F.E. WARREN AIR FORCE BASE *FORT DETRICK AREA B GROUND WATER *FORT DIX (LANDFILL SITE) *FORT GEORGE G. MEADE *FRONTIER FERTILIZER *FRONTIER FERTILIZER *Solar RI6170022036 Solar *FIG170022036 Solar *FORT DED980555122 Solar *Solar *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER	*CONTINENTAL STEEL CORP.	IND001213503	Solar, Wind
*DELILAH ROAD *E.I. DU PONT DE NEMOURS & CO., INC. (NEWPORT PIGMENT PLANT LANDFILL) *ELIZABETH MINE *ELISWORTH AIR FORCE BASE *F.E. WARREN AIR FORCE BASE *FORT DETRICK AREA B GROUND WATER *FORT DIX (LANDFILL SITE) *FORT GEORGE G. MEADE *FRONTIER FERTILIZER NJD9805555122 Solar *Solar *VTD988366621 Solar *VTD988366621 Solar *VY5571924644 Solar WY5571924179 Wind *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER	CURTIS SPECIALTY PAPERS	NJD057143984	Solar
*E.I. DU PONT DE NEMOURS & CO., INC. (NEWPORT PIGMENT PLANT LANDFILL) *ELIZABETH MINE VTD988366621 Solar *ELLSWORTH AIR FORCE BASE SD2571924644 Solar *F.E. WARREN AIR FORCE BASE WY5571924179 Wind *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT DIX (LANDFILL SITE) NJ2210020275 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER		RI6170022036	Solar
*ELIZABETH MINE VTD988366621 Solar *ELLSWORTH AIR FORCE BASE SD2571924644 Solar *F.E. WARREN AIR FORCE BASE WY5571924179 Wind *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT DIX (LANDFILL SITE) NJ2210020275 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER CAD071530380 Solar	*DELILAH ROAD	NJD980529002	Solar
*ELLSWORTH AIR FORCE BASE \$D2571924644 *F.E. WARREN AIR FORCE BASE WY5571924179 Wind *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT DIX (LANDFILL SITE) NJ2210020275 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER CAD071530380 Solar		DED980555122	Solar
*F.E. WARREN AIR FORCE BASE WY5571924179 Wind *FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT DIX (LANDFILL SITE) NJ2210020275 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER CAD071530380 Solar	*ELIZABETH MINE	VTD988366621	Solar
*FORT DETRICK AREA B GROUND WATER MDD985397249 Solar *FORT DIX (LANDFILL SITE) NJ2210020275 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER CAD071530380 Solar	*ELLSWORTH AIR FORCE BASE	SD2571924644	Solar
*FORT DIX (LANDFILL SITE) NJ2210020275 Solar *FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER CAD071530380 Solar	*F.E. WARREN AIR FORCE BASE	WY5571924179	Wind
*FORT GEORGE G. MEADE MD9210020567 Solar *FRONTIER FERTILIZER CAD071530380 Solar	*FORT DETRICK AREA B GROUND WATER	MDD985397249	Solar
*FRONTIER FERTILIZER CAD071530380 Solar	*FORT DIX (LANDFILL SITE)	NJ2210020275	Solar
	*FORT GEORGE G. MEADE	MD9210020567	Solar
GALLUP'S OLIARRY CTD108960972 Riomass	*FRONTIER FERTILIZER	CAD071530380	Solar
CIDIO0300372 Diomass	GALLUP'S QUARRY	CTD108960972	Biomass
*GE - HOUSATONIC RIVER MAD002084093 Solar	*GE - HOUSATONIC RIVER	MAD002084093	Solar
*GEMS LANDFILL NJD980529192 Solar	*GEMS LANDFILL	NJD980529192	Solar
GROVELAND WELLS MAD980732317 Solar	GROVELAND WELLS	MAD980732317	Solar
HAVERHILL MUNICIPAL LANDFILL MAD980523336 Solar	HAVERHILL MUNICIPAL LANDFILL	MAD980523336	Solar
INDUSTRI-PLEX MAD076580950 Solar	INDUSTRI-PLEX	MAD076580950	Solar
*IRON HORSE PARK MAD051787323 Solar	*IRON HORSE PARK	MAD051787323	Solar

Site	EPA ID	Technology Type
ISLIP MUNICIPAL SANITARY LANDFILL	NYD980506901	Solar
*JET PROPULSION LABORATORY (NASA)	CA9800013030	Solar
KIN-BUC LANDFILL	NJD049860836	Solar
*LANDFILL & DEVELOPMENT CO.	NJD048044325	Solar
LAWRENCE AVIATION INDUSTRIES, INC.	NYD002041531	Geothermal
*LAWRENCE LIVERMORE NATL LAB, (MAIN SITE) (USDOE)	CA2890012584	Solar
*LEVIATHAN MINE	CAD980673685	Solar
*LOWRY LANDFILL	COD980499248	Landfill gas
*MARTIN-MARIETTA, SODYECO, INC.	NCD001810365	Biomass
*MCGUIRE AIR FORCE BASE	NJ0570024018	Solar
*NATIONAL SEMICONDUCTOR CORP.	CAD041472986	Solar
*NAVAL WEAPONS STATION EARLE (SITE A)	NJ0170022172	Solar
NEBRASKA ORDNANCE PLANT (FORMER)	NE6211890011	Solar
*NEWMARK GROUND WATER CONTAMINATION	CAD981434517	Solar
*NORTHWEST PIPE & CASING/HALL PROCESS COMPANY	ORD980988307	Solar
*NYANZA CHEMICAL WASTE DUMP	MAD990685422	Solar
*OAK RIDGE RESERVATION (USDOE)	TN1890090003	Solar
OMEGA HILLS NORTH LANDFILL	WID000808568	Landfill gas
*ORONOGO-DUENWEG MINING BELT	MOD980686281	Solar
*OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	MA2570024487	Wind
*PACIFIC COAST PIPELINE	CAD980636781	Solar
*PALMERTON ZINC PILE	PAD002395887	Solar
PANTEX PLANT (USDOE)	TX4890110527	Wind
*PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	SC6170022762	Solar
PARSONS PAPER MILL	MAD001114362	Solar
*PEMACO MAYWOOD	CAD980737092	Solar
*PETERSON/PURITAN, INC.	RID055176283	Solar
PICATINNY ARSENAL (USARMY)	NJ3210020704	Solar
PICILLO FARM	RID980579056	Wind
PINE BEND SANITARY LANDFILL	MND000245795	Landfill gas
*POWNAL TANNERY	VTD069910354	Hydro
*PRICE LANDFILL	NJD070281175	Solar
REFUSE HIDEAWAY LANDFILL	WID980610604	Solar
*REILLY TAR & CHEMICAL CORP. (INDIANAPOLIS PLANT)	IND000807107	Solar
RE-SOLVE, INC.	MAD980520621	Solar
ROSE HILL REGIONAL LANDFILL	RID980521025	Solar
*SACRAMENTO ARMY DEPOT	CA0210020780	Solar

Site	EPA ID	Technology Type
*SAVANNAH RIVER SITE (USDOE)	SC1890008989	Biomass
SCIENTIFIC CHEMICAL PROCESSING	NJD070565403	Solar
SOLA OPTICAL USA, INC.	CAD981171523	Solar
*SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	CTD009717604	Solar
*SOUTH BRUNSWICK LANDFILL	NJD980530679	Solar
*SOUTHSIDE SANITARY LANDFILL	IND980607360	Landfill gas
STROTHER FIELD INDUSTRIAL PARK	KSD980862726	Solar
SULLIVAN'S LEDGE	MAD980731343	Solar
SUTTON BROOK DISPOSAL AREA	MAD980520696	Solar
*TRAVIS AIR FORCE BASE	CA5570024575	Solar
*TUCSON INTERNATIONAL AIRPORT AREA	AZD980737530	Solar
UNITED CHROME PRODUCTS, INC	ORD009043001	Solar
*USARMY/NASA REDSTONE ARSENAL	AL7210020742	Solar
*USN AIR STATION CECIL FIELD	FL5170022474	Solar
*VENTRON/ VELSICOL	NJD980529879	Solar
*W.R. GRACE & CO., INC. (ACTON PLANT)	MAD001002252	Solar
WASHINGTON COUNTY LANDFILL	MND980704738	Solar
WELLS G&H	MAD980732168	Solar
*WELSBACH & GENERAL GAS MANTLE (CAMDEN RADIATION)	NJD986620995	Solar
WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	RID981063993	Solar
*WILLIAMS AIR FORCE BASE	AZ7570028582	Solar
YORK COUNTY SOLID WASTE AND REFUSE AUTHORITY LANDFILL	PAD980830715	Solar

Notes:

^{*} Denotes sites located in communities with potential environmental justice concerns, as identified by EPA.

NASA = National Aeronautics and Space Administration

USDOE = U.S. Department of Energy