



# CRANSTON SANITARY LANDFILL MSW LANDFILL

## LOCATION

Cranston, RI

## OWNER

Cranston Sanitary Landfill Remedial  
Action Group

## ENGINEER

Woodard & Curran

## CONTRACTOR

Woodard & Curran

## SIZE

22 Acres

## DATE COMPLETED

2015

## PROJECT DESCRIPTION

The Cranston Sanitary Landfill is the first site in the Ocean State to achieve final closure with the ClosureTurf system. Beginning in 2019, the landfill became host to a community solar farm developed by ISM Solar® for a complete sustainable solution.

One mile from the T.F. Green Airport and directly adjacent to the Pawtuxet River, the landfill is at the intersection of the built and natural environment. ClosureTurf was selected by the landfill remedial action group for its superior engineering performance, including clean water runoff with low turbidity.

ClosureTurf has since solved the landfill's stability and erosion issues, withstanding harsh coastal New England weather (windstorms, blizzards, nor'easters, freeze/thaw and more). It has greatly reduced long-term maintenance activities compared to a traditional soil cover such as vegetation, mowing, fertilization, irrigation, re-vegetation, erosion repairs and stormwater pond cleaning.

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The community solar farm will deliver clean energy and electric bill savings directly to Rhode Island homeowners. In addition, the City of Cranston will collect tax revenue without the need for new city services.



# CRANSTON SANITARY LANDFILL

ClosureTurf® is an engineered landfill closure system that was designed to address the environmental and performance failures of traditional vegetated landfill closures. For many of the same reasons that it excels in those areas, it is also the ideal foundation for solar deployment.

## KEY BENEFITS

### For Environmental Closure:

- Prevents common erosion issues
- Provides clean water runoff with low turbidity
- Improves gas collection and reduces odors
- Protects against severe weather events
- Reduces long-term maintenance

### For Solar Installation:

- Reduces site prep costs and risks
- Eliminates vegetative maintenance
- Reduces soiling from clippings and dust
- Improves access for construction and O&M
- Can be used with ballasted systems and non-penetrating direct attachment technology for slopes



Community solar farm developed by ISM Solar® for a complete sustainable solution.



This drainage pond is lined with HydroBinder®, a cementitious infill, used in stormwater applications. The runoff contains no sediment so water leaving the site is much cleaner and safer.