



LANDFILL BIOGAS PLANT
ALBURY LANDFILL, NSW



KEY STATS

1.5 MWp landfill site in NSW

**Redeployable & near-zero
ground penetration**

WHY MAVERICK?

Minimal ground penetration

This landfill site, covered with an impervious membrane, presented civil works risk and limitations.



Speed of deployment

150kWp per day with only 3 people.



Redeployability

A gas line runs underneath the site and needs to be accessed contingently.



“ This is a delicate site so we were thrilled to discover that there was an appropriate solar solution available at a low cost. With no real alternative available for sites like these, MAVERICK opens up a world of opportunity for EPSA. ”

- Ron Hall, Hybrid Microgrid Segment Manager, Energy Power Systems Australia

SOLUTION FOR LANDFILLS

Albury landfill is demonstrative of a much larger opportunity that MAVERICK unlocks for sites that were previously unsuitable for solar.

A landfill is a backfilled ground cavity, often covered by an impervious membrane. Once capped, the site's utility reduces drastically, if not completely. Closed landfills are generally not suitable sites for building or structures, as landfill gas emitted and captured through wells presents a safety risk and the capping of a landfill is not a stable platform to build on.

In some cases, a landfill can be deemed suitable for redevelopment, but will inherently carry a unique civil profile with considerable limitations. At Albury, the site was ripe for rehabilitation, but required a solution that could appropriately circumnavigate these civil risks and challenges. Common after uses of landfills include sports grounds, public open spaces and golf courses.

The site is adjacent to Albury city and energy generated by the landfill is fed into the local grid via a main gas line running underneath. To leverage this existing infrastructure, but to also allow for contingent underground maintenance, a non-permanent solar solution was the ideal choice for rehabilitating the site.

A majority of conventional solar structures must be driven into the ground to depths well beyond most landfill membranes. As a result, solar projects have seldom been considered as a way to redevelop these unique sites. Until now.

MAVERICK is the only ballasted system which offers a cost competitive solution with rapid, energy dense deployment. Its flexibility allows it to meet a landfill's unique requirements - the solution's anchoring can be adjusted to accommodate the limits of any size cap. At Albury, anchor depths were reduced to allow the landfill's membrane to remain intact.