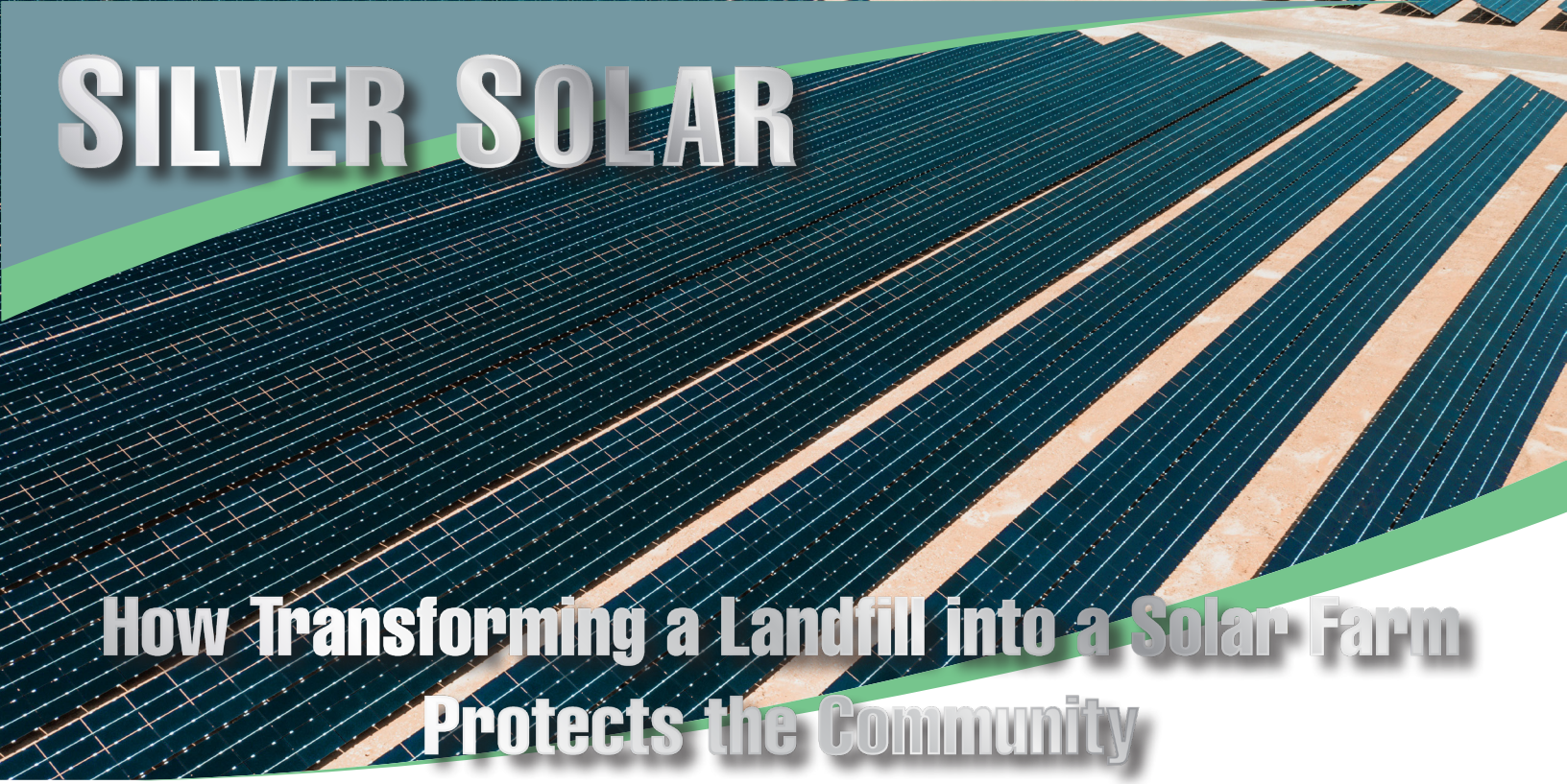
SILVER SOLAR



How Transforming a Landfill into a Solar Farm Protects the Community

Snapshot

Silver Solar works with the Maricopa County community to craft a long-term sustainable solution for their decommissioned landfill. The results: a low-maintenance solar farm that guards against pollution and revitalizes the community.

"A multimillion-dollar project like this would never be possible without subsidies from the IRA [Inflation Reduction Act]. We're able to address the climate crisis in a way that benefits the public. Silver Solar understands the longevity of a publicly-owned project."

~Jemina Santacruz, Special Projects Manager of Maricopa's department of economic development.

Ownership Type:
Public

Location:
Maircopa, AZ

Annual Environmental Impact:
842 Tons of CO2

Payback Period:
15 Years

Solar Farm Size:
118 Acres

System Size:
23 Megawatts

Storage:
100-Megawatt Battery

Annual Output:
23,920,000 kWh
(That's enough to power over 1,300 households!)

Want the full story?

Read the complete story on the back.

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"[Silver Solar] carefully measured and addressed the risks to create a long-term solution. They even presented their plan at a city hall assembly to educate the public."

~Jemina Santacruz

Introduction

What happens to landfills once they're full? Most are covered with soil and left alone. In the best case, they became a waste of space. In the worst case, they become a decade-long source of pollution. Maricopa County addresses both possibilities. Located in the middle of Phoenix, Arizona, Maricopa County's 27th Avenue landfill revitalizes the community as a solar farm.

Challenge

Decommissioned landfill are notoriously difficult to build on. For almost 30 years, the 27th Avenue landfill sat capped off and dormant. Capped landfill become porous as they settle, making them unstable for construction. Any activity risks puncturing the cap and threatens the surrounding areas with toxic gases and land pollutants.

Our Solution

Silver Solar worked with the community to develop a safe, long-term solution. During construction, our strict safety guidelines protected the community. First, we installed environmental sensors at the landfill's perimeter to address leaks as they occur. We minimize that risk with lightweight construction. Our monocrystalline solar panels install faster and easier than traditional panels, minimizing the danger to our installation crew. Secondly, the ballasts elevating the panels evenly disturb their weight for long-term stability. The community can rest easy, knowing their new solar farm is safe.

Results

The new 27th Avenue solar farm is a low-maintenance solution with real benefits for the community. It is scheduled to operate for a minimum of 20 years. It powers the nearby government facilities, lowing the taxpayer's bill. Maricopa County transforms a landfill into a power center, protecting citizens from pollution and propelling them into a sustainable future.

Ready for the future?

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