

EnergyLane's Dual-Use Solar Tech Protects PEI's \$1B Potato Industry & Secures Net-Zero

UPEI cleantech founder Austin Gboru introduces an elevated agrivoltaic framework to stop solar developers from cannibalizing prime PEI potato farmland.

CHARLOTTETOWN, PRINCE EDWARD ISLAND, CANADA, May 26, 2026 /EINPresswire.com/ -- As Prince Edward Island accelerates toward its 2040 Net-Zero mandate, a new cleantech infrastructure proposal warns that traditional solar energy development could permanently destroy thousands of acres of prime agricultural land. In response, [Austin Gboru](#), an international infrastructure developer and incoming candidate at the University of Prince Edward Island (UPEI) Master of Cleantech Leadership & Transformation, is introducing a proprietary technological solution to permanently resolve the island's land-energy collision.



EnergyLane's agrivoltaic micro-shading arrays are elevated 4.5 meters, allowing commercial farming equipment to operate unimpeded while protecting potato crops from extreme summer heat.

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Austin Gboru

To meet its future energy needs and reduce an 85% reliance on mainland power cables, PEI requires approximately 300 Megawatts (MW) of new localized solar capacity. Using traditional, ground-mounted solar panels, this mandate would require stripping over 2,100 acres of flat, sun-drenched land out of the ecosystem. In a province governed by a strict 3-year crop rotation to protect soil health, the loss of 2,100 acres of prime arable land would structurally destabilize the island's \$1 Billion potato industry.

Through his company, EnergyLane, Gboru is proposing the

immediate transition to [agrivoltaic technology](#). This [dual-use solar infrastructure](#) elevates solar arrays 4.5 meters (14.7 feet) above active crops, allowing commercial farming equipment to

operate entirely unimpeded beneath them.

"We do not have to choose between clean energy and food security," said Austin Gboru, Founder of EnergyLane. "Sinking traditional solar panels into active arable land is a failure of engineering. Our infrastructure elevates the grid, actively protects the crops from climate-induced heat stress, and keeps the family farm economically sovereign. We are empowering the PEI farmer to become the island's primary energy developer."

Unlike traditional opaque solar farms that suffocate the soil biome, EnergyLane's micro-shading arrays are geometrically calibrated specifically for the *Solanum tuberosum* (Russet Burbank potato). The technology delivers three immediate provincial benefits:

Climate-Adaptive Agriculture: By blocking harsh midday zenith radiation during July and August droughts, the solar canopy caps soil temperatures, prevents the potato from entering heat-induced dormancy, and reduces water evaporation by up to 30%, preserving the island's vital groundwater aquifers.

Hurricane-Grade Grid Resilience: Anchored by deep-driven helical piles designed to bypass the PEI frost line, the arrays utilize AI-driven trackers that automatically rotate panels into a vertical "stow" position during extreme weather (such as Hurricane Fiona), physically shedding snow loads and preventing wind shear collapse.

Family Farm Protection: By leasing the airspace rather than purchasing the land, EnergyLane bypasses the restrictive PEI Lands Protection Act and provides generational farmers with a guaranteed, weather-independent secondary income stream via Power Purchase Agreements (PPA).

EnergyLane is currently aligning with the UPEI Cleantech Academy, the Atlantic Canada Opportunities Agency (ACOA), and local agricultural stakeholders to initiate its Phase 1 commercial pilot deployment in the province.

About EnergyLane

EnergyLane is an infrastructure development firm specializing in dual-use agrivoltaics and decentralized grid modernization. By bridging the gap between agronomy and utility-scale renewable energy, EnergyLane designs proprietary structural architectures that stabilize rural power grids while actively enhancing commercial crop yields.

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