



A.R. Projects

greenhouses and turnkey solutions <https://www.arprojects.biz/>

Turnkey SOLOUTION - Solar PV, Metal structure & Energy Storage Solutions

The best option for far away farms and villages that do not have electrical grid splay



TOTAL POWER OF THE PANELS – 650 W / PC 650 W X 180 = 117000 w

Total power of the invertors 125 kw /unit 125 x 3 = 375 kw

Total power of the batteries 192 kw/h x 3 = 576 kw/h

24 x 24 structure total 576 sqm -that can serv as a packing house or metal shed house.

Integrated Commercial Microgrids

We design and deliver highly efficient, robust solar shading structures and energy storage systems for agriculture, commercial farms, and industrial facilities globally. Achieve energy independence and protect your crops with our dual-use architectures.

Dual-Glass High-Yield PV

Bifacial solar technology capturing both direct and albedo light, ensuring maximum power generation in agricultural settings.

Smart Energy Storage (BESS)

High-capacity battery architecture with intelligent thermal management for seamless peak shaving and 100% off-grid resilience.



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Heavy-Duty Structural Design

6005-T5 anodized aluminum and SUS304 fasteners built to withstand extreme wind, humidity, and corrosive environments.

Dual Land Utilization

Combining renewable energy generation with premium metal structure



Core System Specifications

Component	Specification & Material Quality
PV Modules	TCL 650W Dual-Glass High-Efficiency Bifacial Modules.
Inverter Control	Tier-1 Sungrow 110kW String Inverters & Multi-Mode Hybrid Inverters.
Energy Storage	Industrial-grade battery cabinets (e.g., 192kWh+) with integrated BMS.
Mounting Structure	6005-T5 Aluminum Alloy (Oxide film $\geq 15\mu\text{m}$) for max corrosion resistance.
Fasteners	SUS304 Stainless Steel Bolts and Nuts ensuring zero long-term loosening.
Roofing	Customized High-Grade Color Steel Tiles (e.g., Jiaochi 820 Profile).



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Why Partner With Us?

- Power Cost Optimization: Shift loads using stored battery power during peak hours to drastically lower electricity bills.
- Off-Grid Security: Instantaneous backup power guarantees uninterrupted operation for climate controls and irrigation pumps.
- End-to-End Engineering: We provide full customized structural drawings, technical parameters, and export documentation.
- Tier-1 Quality Assurance: Core equipment sourced exclusively from industry-leading global brands with 20+ year design life.



Ready for Global Deployment.

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AMIT RODOY

-972523270732

amit@arprojects.biz