9H SmartRanch™ Modular Solar

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Purpose: For on grid use to offset electrical costs for ranchers in Wyoming

Variables Affecting Module Cost:
- Module
  - Solar Panels
  - Inverter
  - Shipping to Production Facility
  - Structural Components
- Electrical
  - Electrical Components
  - Cost of an Electrician
- Shipping from Production Facility to Ranch

Features:
- Adjustable angles to accommodate all four seasons
- Adjustable height to accommodate uneven ground

Module Specs:
- 1.5 kW Module
- Total Weight: 420 lb
- Minimum Volume (Shipping): 75" x 160" x 15"
- Maximum Height (Winter Angle): 65"

Panel to Grid Diagram

1.5 kW Module
240 VAC to Power Grid
Micro Inverter
Additional Modules

Payback Period
Internal Rate of Return
Cost per Kilowatt

Variables Affecting Module Cost:
- Tax Credits
  - 26% ITC
  - 25% REAP grant
- Energy Rate of $0.12/kWh
- Based on Laramie conditions

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