



Why Pay for Fuel?

Discover how solar and EV technology is revolutionizing cold storage—eliminating fuel costs while delivering superior performance, unmatched mobility, and complete energy independence for modern supply chains.

Three Paths to Cold Storage

Each approach offers distinct advantages for different operational needs. Understanding these fundamental differences is crucial for making the right investment decision for your business.



Solar + EV Based

- 100% renewable power source
- Fully mobile and transportable
- -18°C to +36°C temperature range
- Complete grid independence
- Zero operational fuel costs

Solar Hybrid

- Solar panels with grid backup
- Fixed custom-built installation
- Limited to -5°C to -10°C range
- Partial grid dependency
- Thermal energy storage banks

Commercial Modular

- Grid electricity with diesel backup
- Fixed prefabricated structure
- Custom temperature configurations
- High grid dependency
- Traditional infrastructure model



The True Cost of Operations

Understanding where your money goes reveals dramatic differences in total cost of ownership. These operational realities directly impact your bottom line every single day.

Commercial Modular

Running Cost: HIGH

Commercial electricity rates accumulate every hour of operation. Diesel generators kick in during power cuts, tripling fuel expenses. Fixed structures require ongoing maintenance and civil work investments.

Best for: Large warehouses with stable, reliable power infrastructure—but operational costs erode margins daily.

Solar Hybrid

Running Cost: MEDIUM

Reduces grid consumption during daylight hours, but requires continuous grid connection for backup power. Thermal storage banks provide limited autonomy before requiring external power.

Best for: Operations seeking partial independence—better than standard models but still tethered to the electricity grid with monthly bills.

Solar + EV Based

Running Cost: NEAR ZERO

Zero diesel consumption. Zero grid electricity bills. **100% fuel savings. 100% electricity savings.** Advanced battery systems eliminate spoilage risk during outages.

Delivers the lowest Total Cost of Ownership over a 5-year operational period.

Technology Deep Dive

01

Solar + E V Based Machine

Mobile, self-sustaining cold storage operating independently of grid infrastructure. Widest temperature range (-18°C to +36°C) makes it the most versatile solution available.

Ideal for: Farmers, transporters, remote villages, temporary installations, and any operation seeking complete fuel cost elimination.

02

Commercial Modular Machine

Traditional modular cold room constructed from insulated panels in Lego-style assembly. Relies on grid power with compressor-based refrigeration systems.

Ideal for: Large logistics parks, urban distribution centers, and facilities with reliable 24/7 power availability and high-volume storage needs.

03

Solar Hybrid Machine

Sub-zero storage utilizing thermal energy backup systems. Temperature capability limited to -5°C to -10°C range only, optimized for deep-freeze applications.

Ideal for: Specialized frozen storage for products like ice cream, frozen fish, or other goods requiring consistent deep-freeze temperatures.



5-Year Total Cost of Ownership

Real-world analysis based on standard 10MT cold room operation. These numbers represent actual operational expenditures that directly impact your profitability and competitive position.

₹15L +

Commercial Machine

5-year operational cost. Daily running cost of ₹800-1,000. Diesel expenses multiply 3-4x during power outages and peak demand periods.

₹6-8L

Hybrid Machine

5-year operational cost. Daily running cost of ₹300-500. Reduced but still significant monthly electricity bills throughout the operational period.

₹50K

Solar + EV Machine

5-year operational cost. **₹0 daily running cost.** Expenses limited to routine preventive maintenance and servicing only.

Your Savings Potential



Electricity Savings

₹15L in power bills completely eliminated over 5 years



Fuel Savings

₹3L in diesel costs eliminated forever—no backup generator expenses



Total 5-Year Savings

Complete savings versus commercial machine operations

Choose Your Path Forward

The right technology depends on your specific operational requirements, infrastructure constraints, and long-term strategic goals. Consider these decision factors carefully.



Choose Commercial Machine

If you need massive, permanent warehouse infrastructure in an urban center with reliable, uninterrupted power supply. Best suited for high-volume operations where fixed location is strategic.



Choose Hybrid Machine

If you specifically require fixed deep-freezer capabilities and want to reduce electricity costs through partial solar integration. Ideal for specialized frozen product storage with grid backup.



Choose Solar + EV Machine

If you want freedom. Complete freedom from electricity bills, diesel costs, and infrastructure constraints. Move your cold storage wherever business opportunities emerge.

The machine doesn't just run for free—it **puts ₹18 Lakhs back in your pocket over 5 years.**

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