

A TRUSTED KNOWLEDGE PARTNER

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A trusted knowledge partner.

Agri Value Chain Services Private Limited (AVC) is a design, engineering and project management consulting firm established in 2014 at Chennai, India. AVC encourages and guides cold chain & food processing industry project investments in Agriculture, Horticulture, Dairy, Poultry and Fishery sector. AVC has the expertise and knowledge to setup projects across in India, Asia and Africa.

INTEGRATED COLD CHAIN AND PACKHOUSES SOLUTIONS



Our Mission

To improve the **"Availability and Affordability"** of food by reduction in post harvest and supply chain losses.

Improving food and Nutrition security
Guiding private and public sector investments in post-harvest management, integrated cold chain, food processing and process cooling.

Skill development & capacity building
Strengthening institutional capacity through skill development programs in post-harvest, Agri logistic management.

Protecting our planet

Institutional support to NGO's, state, government & international organizations for reducing climate change & environment impact in the ago-food supply chain through energy-efficiency and renewable energy solutions.

Global Value chain development
Global value chain development and International Cooperation for reducing poverty and malnutrition.

Our mission goals and pillars



Business Area of Expertise



Cold Store Facilities



Food processing plants



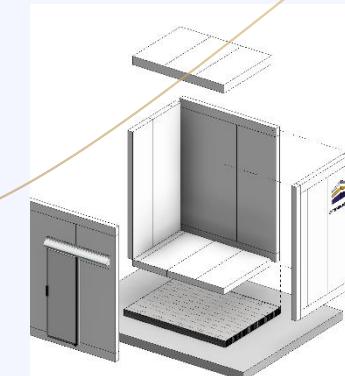
Warehouses and Distribution Centers



Port Temperature Controlled Logistics



Packhouses for Horticulture Products



Modular Cold Rooms





End-to-End Services: From concept to Turnkey Project

CONSULTATION



DESIGN



PROJECT MANAGEMENT



TRAINING



Agrivaluechain Services offers comprehensive solutions, ranging from concept to complete turnkey.



Integrated planning & Design of Post Harvest Management Infrastructure

Expertise in integrating science, engineering, and green technology to create value chain projects:

- Post-Harvest Management System
- Integrated Cold Chain Infrastructure
- Agri Logistics and distribution center
- Ripening and de-greening systems
- Agro Cluster Development



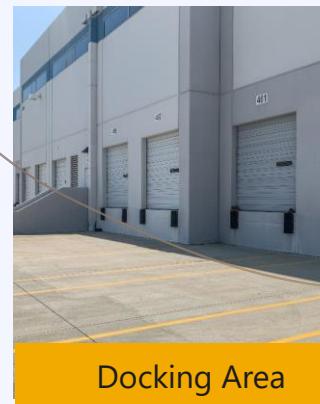
Packhouses



Insulated Building



Material Storage System



Docking Area



Refrigeration Plant



Solar Panels





Post harvest Management Solution



1. Pack house Infrastructure design
 2. Post harvest Process Plan
 3. Post harvest protocols for domestic and export markets



Integrated Cold Chain Facility and Distribution center - Project References

Location: Tamil Nadu

Year of completion: 2014

Client: NSR Farm Fresh

Project Value: 30 Crores

PROJECT FACTS

Building Floor Area: 80000sqft

Capacity of Cold Storage: 8000 MT

Cold Rooms: 8 Rooms

Temperature: +20°C to -20°C

SCOPE OF SERVICES

- Turnkey Design
- Project Management consulting services for Insulated building
- Docking system
- Freon Split Refrigeration plant
- Control system and Automation system

TYPE OF FACILITY

- Short construction time
- New concept as regards Docking Stations
- Very low energy consumption
- Hygienic and easy to clean



Material Storage



Racking System



Material Handling



Docking System



Gati Kausar Cold Chain

Location: Haryana

Year of completion: 2015

Client: Gati Kausar Cold Chain

Dharuhera

Project value: 40 Crores

PROJECT FACTS

Building Floor Area: 50000sqft

Capacity of Cold Storage: 5400 Pallets

No of Cold Rooms: 8 Rooms

Temperature: +2° to -20°C

Refrigeration plant: Ammonia
centralised system

Product Stored: Fresh and Frozen
Products

SCOPE OF SERVICES

- Design
- Project Management
- Consulting services for Refrigeration plant, and Automation system.

TYPE OF FACILITY

Integrated Cold Chain and 3PL
Distribution centre



Material Handling



Material Storage



Evaporator Unit



Refrigeration System



Integrated Cold Chain with CA technology

Location: Uttar Pradesh

Year of completion: 2016

Client: MKC Agro Fresh

Project value: 30 Crores

PROJECT FACTS

Building Floor Area: 50000sqft

Capacity of Cold Storage: 3000 Pallets

Cold Rooms: 14 Rooms

Storage: Controlled Atmosphere for apples

Ripening Chambers: 80 MT per day

Refrigeration plant: Brine Circulation system

SCOPE OF SERVICES

- Design
- Project Management
- Consulting services for Refrigeration plant of CA storage
- Ripening Rooms
- Automation system

ACHIEVEMENT

- Turnkey project features over 12,000 sqm facility including ripening facilities, pre-cooling, packing area and cold storage.
- Focus on developing local teams' skills for installation, enhancing operational efficiency and driving economic growth.



Processing Hall



Sorting



Packing



Electric Control Panel



TNWC Cold Storage

Location: Tamil Nadu

Year of completion: Ongoing

Client: Tamilnadu Warehousing Corporation

Project Value: 4 Crores

PROJECT FACTS

Building Floor Area: 10000sqft

Capacity of cold storage: 500 MT

Cold Rooms: 8 Rooms

Temperature: 2°C to 15°C

Relative Humidity: 85% to 90%

Solar Pv panel: 50 Kwp

Products stored: Fruits and Vegetables

SCOPE OF SERVICES

- Turkey Design
- Project Management
- Consulting services for Insulated building
- Freon Split Refrigeration plant
- Solar Pv system
- Automation system

TYPE OF FACILITY

Solar Supported Cold storage for Fruits and Vegetables



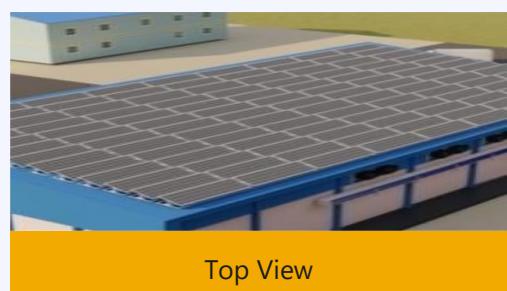
Solar Pv System



Back View



Side View



Top View



Distinct Snow Land Cold Chain

Location: Tamil Nadu

Year of completion: 2020

Client: Distinct Snow Land

Project Value: 15 Crores

PROJECT FACTS

Cold Storage Floor Area: 7000 sqft

Room Temperature: 1°C to 10°C

Distribution Centre Area: 8000 sqft

Solar PV Panel capacity: 75 Kwp

Refrigeration Capacity: 160kw

No. of Cold Rooms: 6

No. of Pre cooling Room: 2

SCOPE OF SERVICES

- Cladding and roofing.
- Turnkey Design and Project Management Consulting services for Insulated building
- Docking system
- Refrigeration plant
- Control system
- Automation system



TYPE OF FACILITY

Integrated Cold Chain Facility and Distribution centre - Solar Energy Supported with PV panels



Material Storage



Refrigeration System



Material Handling



Electronic Control Panel



Integrated Cold Chain and Distribution Center

Location: Pattambi, Kerala.

Year of completion: 2024

Client: AMA International

Project Value: 15 Crores

PROJECT FACTS

Capacity: 30 to 40 Metric tons per day turnover of distribution with storage capacity of 1500 pallets

SCOPE OF SERVICES

- Logistic Systems: Docking, Double deep racking, barcoding, palletizing, and traceability.
- Thermal Building: Kingspan Quad core technology & automatic high-speed doors
- Refrigeration: Eurovent certified equipment to maintain temperature and high RH.

ACHIEVEMENTS

- Energy Efficiency through Automatic electronic controllers and Central monitoring & control system
- Planted trees around for green cover, Rainwater harvesting, integrated with Roof top Solar PV system of 150 kWp to reduce carbon footprint



Material Storage



Thermal Insulation



Refrigeration System



Logistic System



Global Reach

In-house Expertise.

We specialize in tackling challenging ambient conditions in **Asia, Africa and Middle East**, providing efficient, sustainable solutions every time.





PHM operations in a pack house



Receiving from Farm



Washing



Drying



Sorting & Grading



Quality Checking



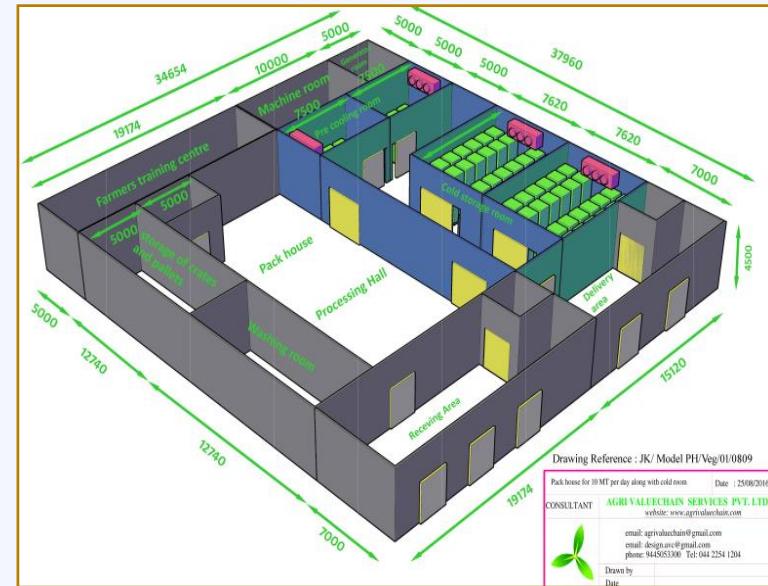
Holding in Cold room



Pre-Cooling



Domestic & Export Packing



Multi-Vegetables Pack-House



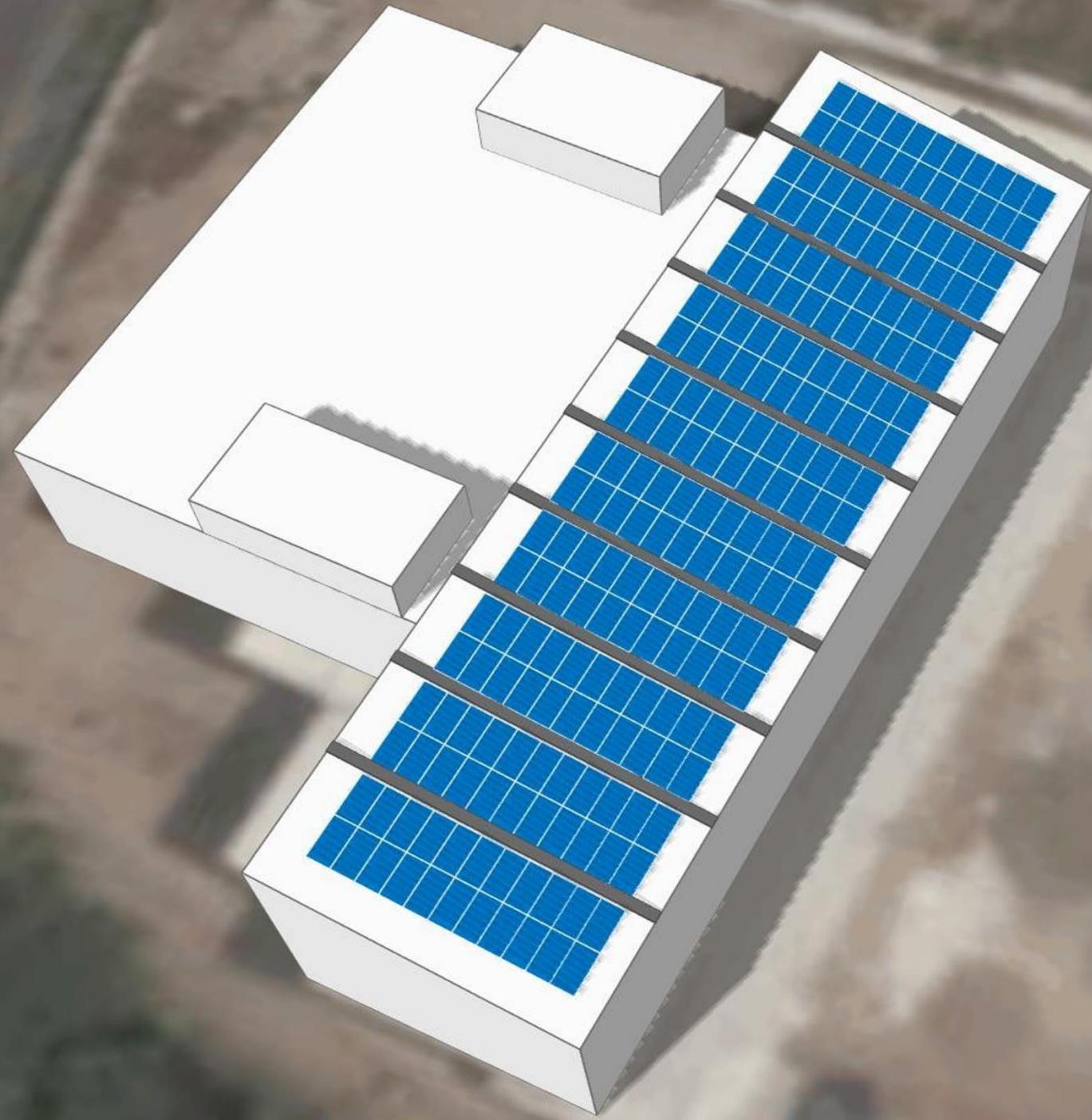
Case Study

Environmental Impact of Solar panel Integration in Cold Chain project

Year: 2020

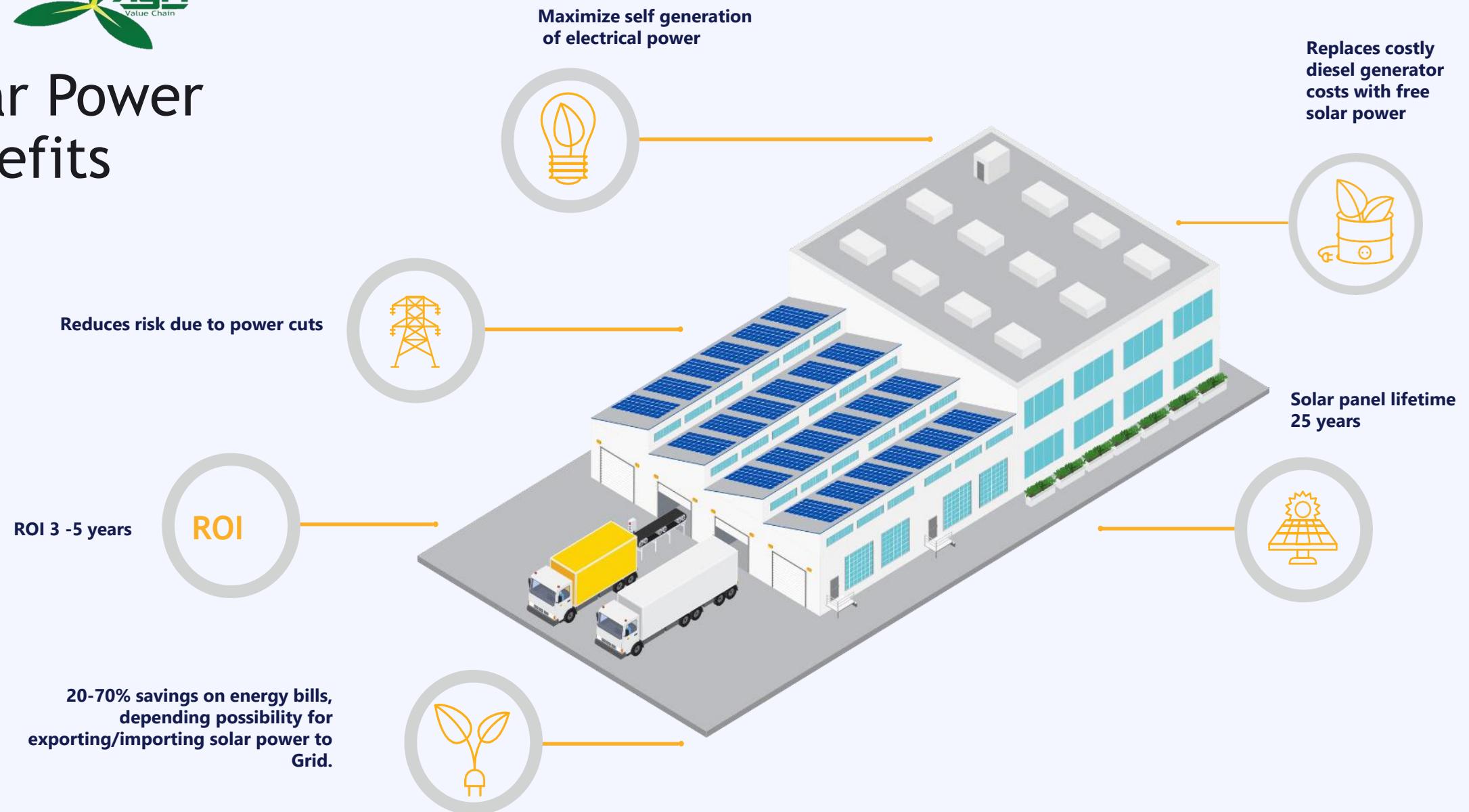
Client: Distinct Snowland Cold Chain

Location: Erode, Tamil Nadu





Solar Power Benefits





Distinct Snow land Cold Chain

**Solar Integration in cold storage
and Environmental Impact**

Installed Capacity : 75 kwp

Year	kWh Generated	CO2 reduction	No of Trees Saved
2021	97.20 mwh		
2022	110.12 mwh		
2023	92.88 mwh	470 metric tonnes	64000 trees
2024	112.47 mwh		

GREEN ENERGY GENERATED

