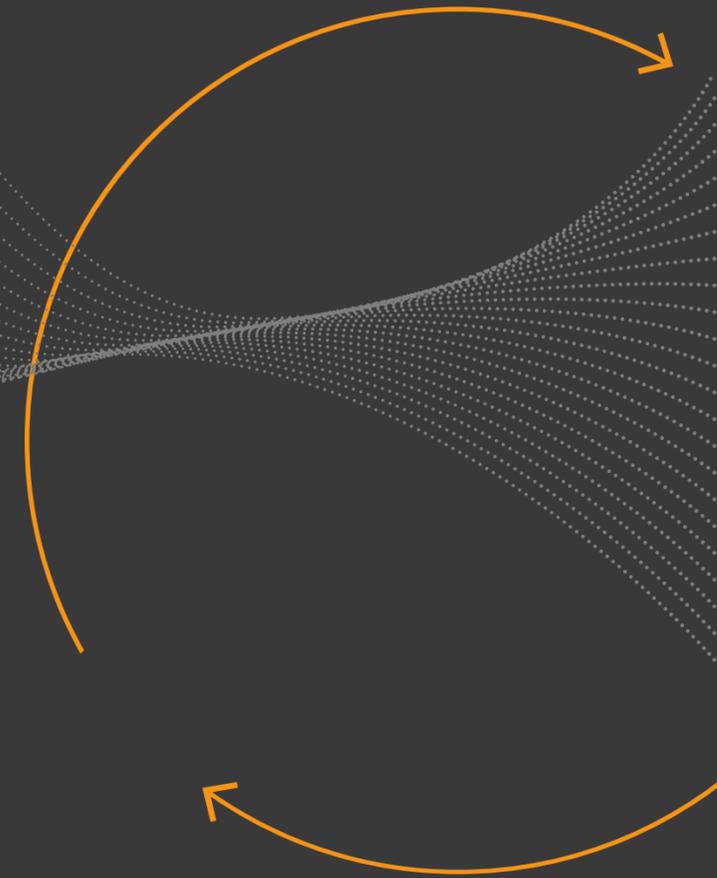


# BEYOND RENEWABLES

SUSTAINABILITY THROUGH CIRCULARITY

# Value Proposition

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# end-to-end Recycling Solution

At **B**YOND, we specialize in providing a seamless, end-to-end solar panel recycling solution designed to eliminate waste, reduce costs, and strengthen sustainability leadership.

We take ownership of the entire process, including collection, logistics, dismantling, material recovery, and environmentally responsible disposal, so our waste procurement partners can focus on their core operations without added burden.



# Sustainable Recycling vs Informal Scrapping

## **Heavy metal contamination:**

Lead,  
Cadmium,  
Arsenic, etc.,  
contaminate  
soil/leach into  
water bodies.

## **Air Pollution:**

Burning of such  
waste in  
unscientific  
manner by  
informal sector  
players can  
release toxic  
fumes into the  
environment.

## **Health concerns:**

Handling of  
such waste in an  
unscientific  
manner may  
cause adverse  
health impact.

# BEYOND's CPCB Compliance Guarantee

## Transportation

As per the latest CPCB guidelines from June 2025, transportation of solar waste should be done in covered trucks, preferably in trucks authorized for transportation of hazardous wastes.

## Storage

CPCB guidelines require solar waste to be stored in a covered area on a non-leaching surface in a manner that does not affect reuse, refurbishing, or recycling.

## Space

Additionally, the space required for storing solar modules, panels, or cells (CEEW 14) category of e-waste should be at least 19.5 m<sup>3</sup>/tonne. CPCB also mandates a maximum height of 20 layers or 2 meters, whichever is less.

# Extended Producer Responsibility

## Future EPR Certification:

Avoid potential penalties, delays, or compliance risks as the solar waste management regulations tighten in India.

## Estimated Saving:

Compliance fines can range from ₹5–10 lakhs annually; partnering with Beyond Renewables ensures zero risk.

## Audit-Ready Documentation:

Beyond Renewables will provide transparent records and certifications, reducing administrative burden.

# Our Recycling Promise

## Eco-Effective

We practice Carbon Negative recycling, ensuring neutralization of hazardous emissions and effluents.

## High-Value

We aim for >95% recovery and purity rates for all extracted materials. Our process ensures that decomposed polymers are also recovered in resin form, and any dust generated is also collected through filters.

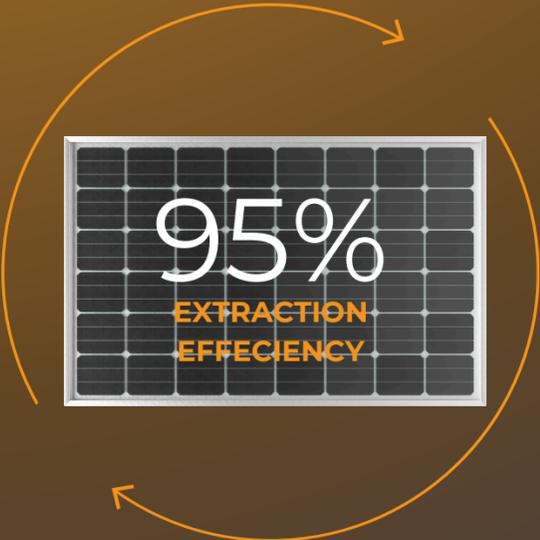
## No Incineration or Landfill

We don't incinerate or landfill waste materials. Our process involves thermal treatment which occurs in an oxygen-free vacuum environment, preventing waste materials from catching fire.



## Compliant

We ensure our process complies with guidelines from MoEFCC and CPCB, abiding by all e-waste recycling regulation.



# Direct Cost Benefits



## Storage Costs

We collect and store solar waste on your behalf.



## Logistics Cost

We bear the transportation cost for waste procured from you.



## Penalty Costs

Ensuring compliance through us enables you to protect against regulatory penalties.



## Disposal Costs

Landfill disposal or waste management will cost you; let us pay for waste you generate.

# Waste to Value

Our proprietary, eco-effective, & high-value recycling process enables us to provide you with competitive prices for different waste materials:



Cell Scrap

₹ 300 - 400 / kg



Frameless Sheets

₹ 3 - 7 / kg



Damaged Panels

₹ 17 - 23 / kg

\*Prices negotiable, subject to quantity & location

# Case Study

Module Manufacturer

A module manufacturer with a capacity of **1 GW** experiences **1% wastage** annually.

1% of 1 GW = 1% of 2.4 million panels

(assuming 2.4 million panels in 1 GW)

**Scrap generation: 24,000 panels / year**

**24000 panels = 672 tonnes**

(assuming 1 panel = 28 kgs)

## Storage Cost

CPCB guidelines mandate at least 19.5 meter cube/tonne and maximum height of stacked panels <2m;

For 1 tonne, you require 9.75 square meters of covered area with non-leaching surface for storage of waste.

## Sell to Us

**Value = ₹ 20 / kg \* 672000 = ₹ 1.34 crores**

Additionally, savings on storage, logistics, and other compliance related costs.

# Recycle with Us

By diverting defective panels from landfills and maximizing material recovery, **our waste procurement partners** reinforce their circular economy commitment, enhancing credibility with regulators, investors, and customers.

Eliminate  
Storage &  
Disposal  
Costs

Convert  
Waste to  
Value

Build  
ESG  
Credibility

Prevent  
Compliance  
Risks

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# BEYOND RENEWABLES



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