



GRSS ONE

MATERIALS CARD

What do we recover from PV panels?

GRSS ONE separates end-of-life and damaged modules into material fractions prepared for further processing and industrial reuse.



**180-200
kg**

aluminium / tonne

**650-750
kg**

glass / tonne

3-5 kg

copper / tonne

20-30 kg

EVA / PVC / tonne

From a PV panel to the next material cycle.



Aluminium

**180-200
kg / tonne**

Mainly from panel frames and structural components. The fraction is prepared for further sorting, cleaning and remelting.



Glass

**650-750
kg / tonne**

The largest material stream in a typical PV module. The fraction is prepared for further cleaning and classification.



Copper

**3-5 kg /
tonne**

A small share by weight, but high material value. The fraction is prepared for cleaning or smelting.



EVA / PVC

**20-30 kg /
tonne**

Fractions requiring further separation, composition assessment and the selection of an appropriate processing technology.

Important: the quantities depend on the design and composition of the processed modules. They are indicative values per tonne of panels.

Recycling does not end with separating the panel.

01

PV panels

End-of-life or damaged mono and bifacial panels enter the process.

02

ONE process

The technology guides the separation of successive materials.

03

Fractions

Material streams are created that require further preparation.

04

Further use

After further processing, materials can return to industry.

Market applications

- reprocessing aluminium and copper,
- further use of glass,
- processing polymer fractions,
- facade elements and lighting fixtures.

R&D directions

- thermal energy storage,
- new building materials,
- protective infrastructure,
- dual-use solutions.

Let us discuss a GRSS ONE deployment.

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