




PANGUANETA

Plywood For Life

**DISCOVER
PANGUANETA**



Panguaneta Spa is a **LEADER** in the production of poplar plywood in Italy and Europe.

It is a family-run business now in its third generation, deeply **ROOTED** in Sabbioneta.

Panguaneta manages **CERTIFIED RAW MATERIAL** and ensures the total traceability of its origin, almost entirely from Italian poplars with a short supply chain.

Panguaneta is committed to
BUSINESS SUSTAINABILITY

BALANCE

between business
and the environment

FUTURE

and training

COOPERATION

with the supply chain

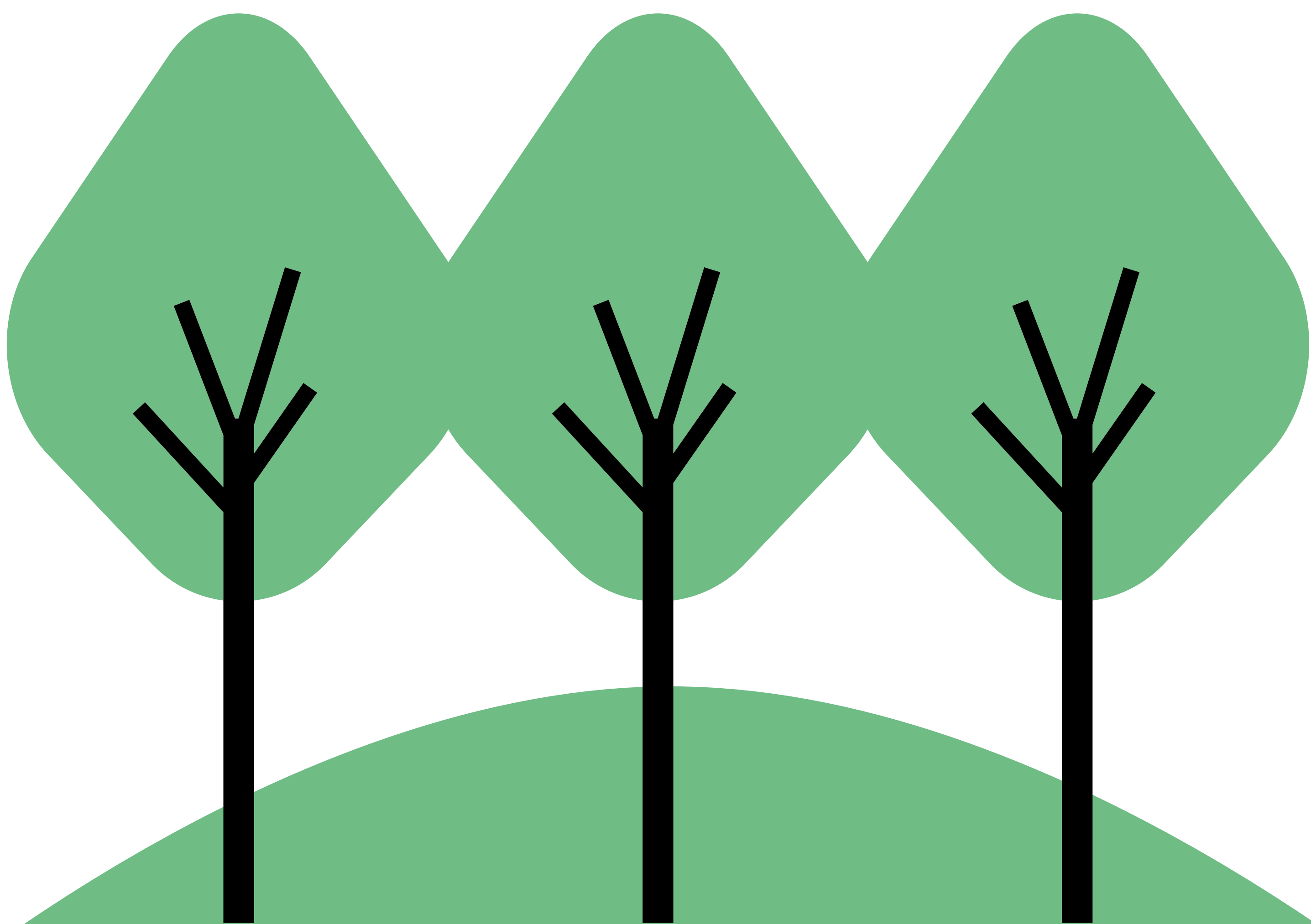
RESPONSIBILITY

towards the territory

INNOVATION

of products and processes

CULTIVATION



Certification of poplar groves

Verification of ecosystem services

CO₂ storage (Carbon Sink)

Safeguard of the landscape

Protection of biodiversity

Reduction of soil erosion

Enhancement of tourism and leisure activities

Employment of local manpower

PRODUCTION



Employment of over 250 workers

**Quality management system certification
(ISO 9001)**

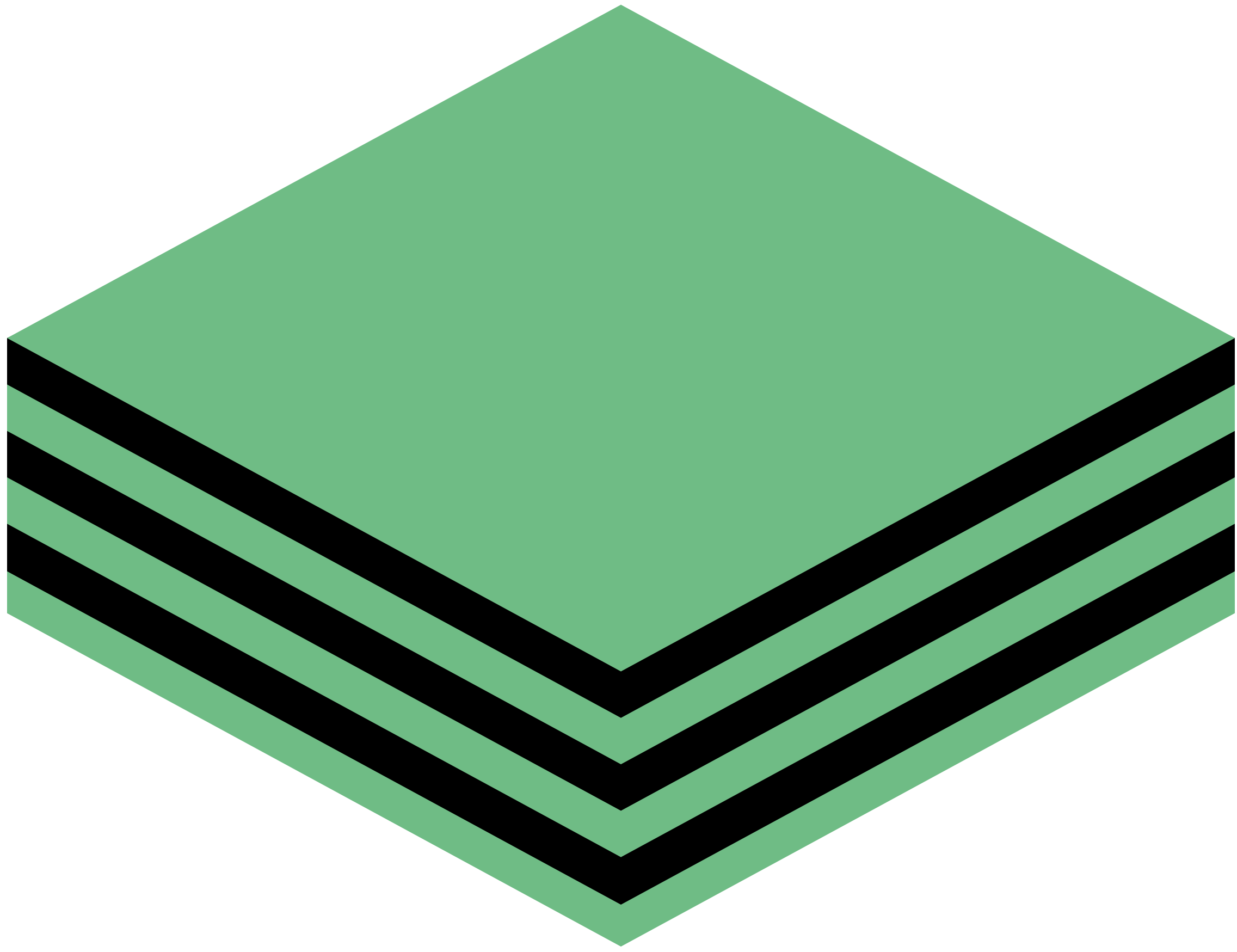
Environmental certification (ISO 14001)

Energy certification (ISO 50001)

**Constant technological investments
to reduce consumption**

**R&D of new products
and new gluing without formaldehyde**

PRODUCT



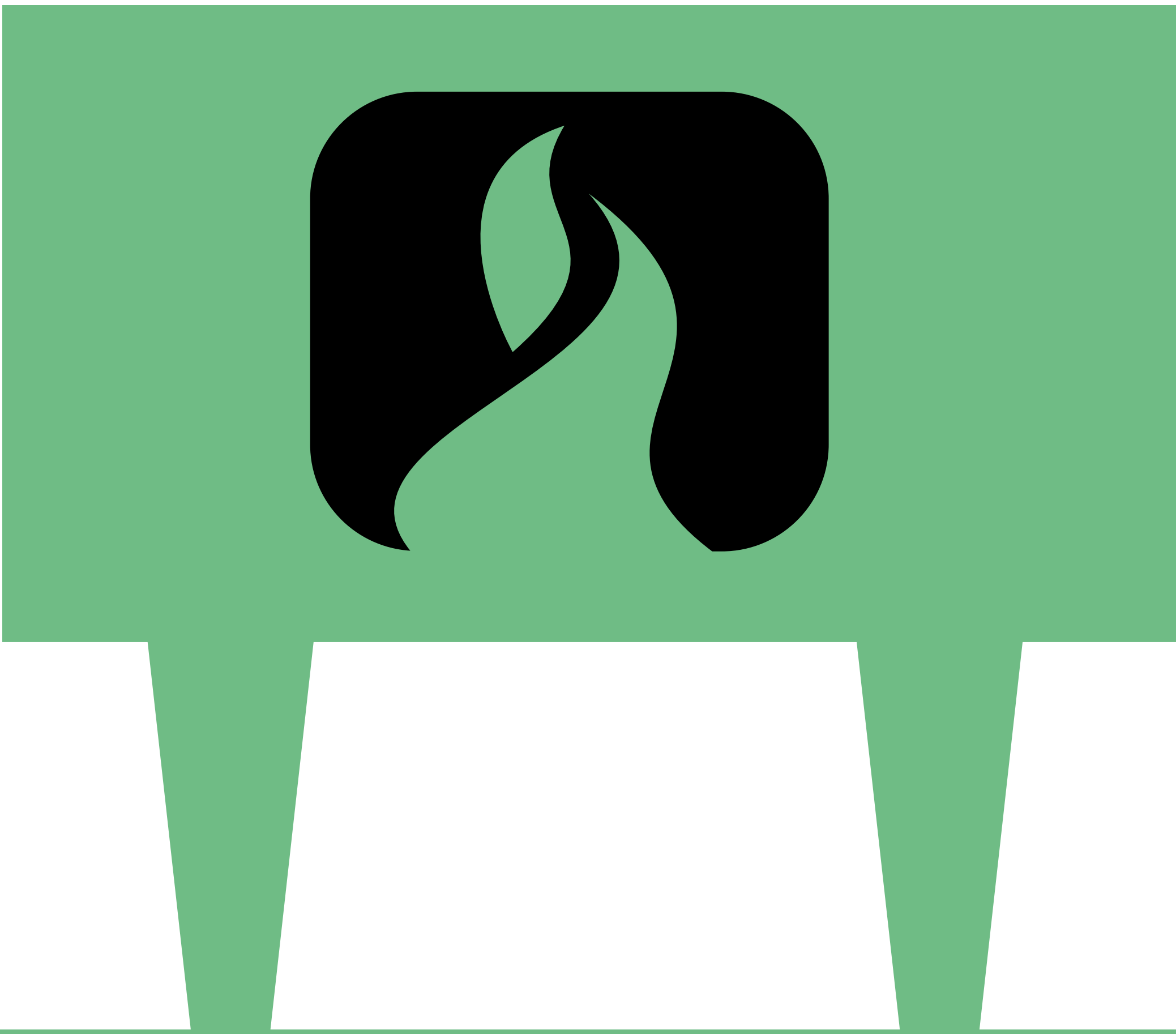
**Constant CO₂ storage (Carbon Sink)
throughout the entire product life**

**Life Cycle Assessment for plywood panel
(LCA)**

**Environmental Product Declaration (EPD)
Certification**

**Replacement of poorly ecological products:
synthetic materials,
solid wood from forest harvesting,
wood of uncontrolled origin.**

POWER



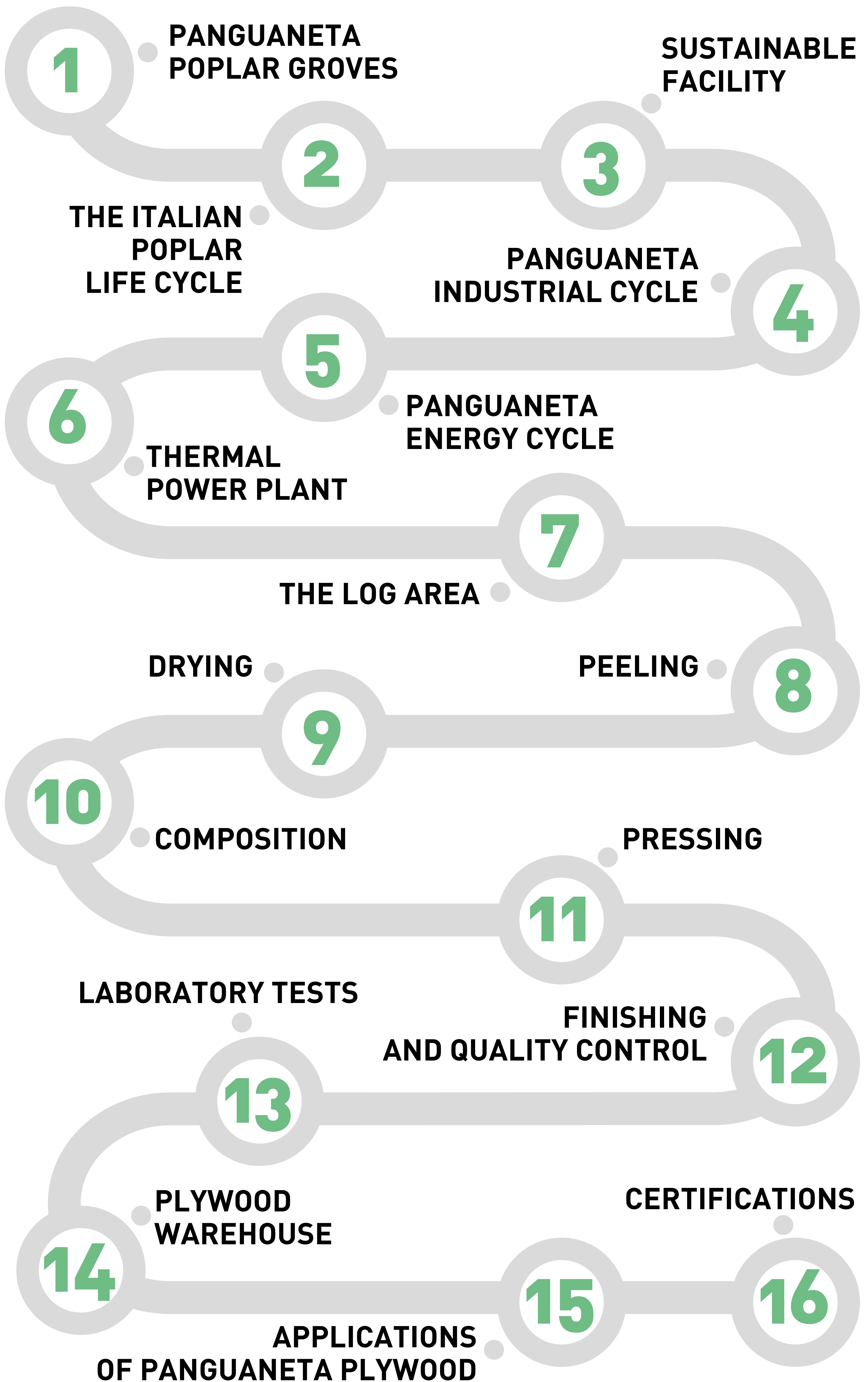
**Completely self-produced
thermal energy (from biomass)**

No fossil fuel

**Continuously controlled
and certified emissions**

Certified energy efficiency

Land, facility, energy ...

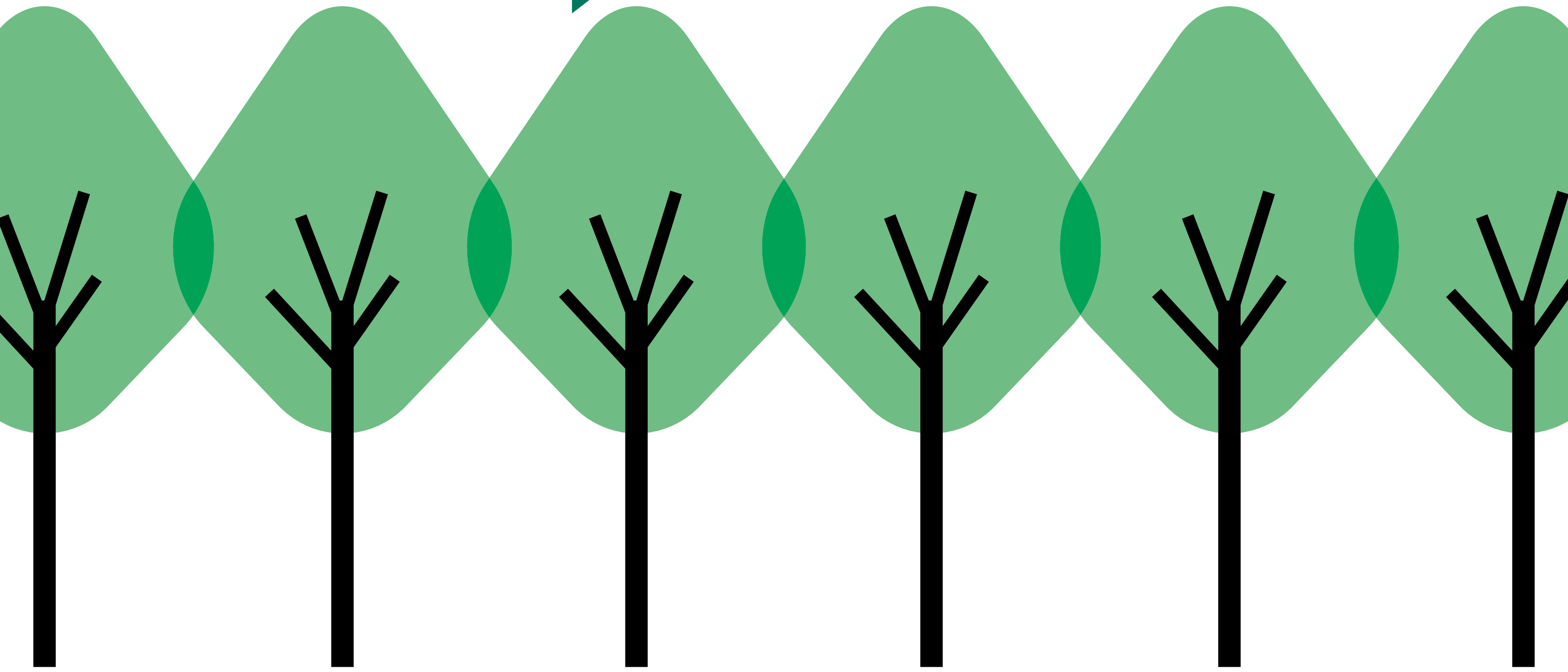


... work, product, certifications

1 Panguaneta poplar groves

POPLAR GROVES
CULTIVATED FOR PANGUANETA

10,000 Ha



CO₂ STORED

200,000 t/year



from
controlled
sources



Short
supply
chain



50% poplar groves
directly managed

50% logs purchased
from qualified suppliers



20
years

Birch



30
years

Beech



50
years

Fir

3

Sustainable facility



CARBON SINK



LOCAL PRODUCTS



PROTECTION OF BIODIVERSITY



100% THERMAL ENERGY FROM BIOMASS



EMISSION CONTROL



EMPLOYMENT AND SATELLITE ACTIVITIES



FIGHT AGAINST DEFORESTATION



LANDSCAPE PROTECTION



PHYTODEPURATION



100% MADE-IN-ITALY POPLAR



COMPLETE TRACEABILITY



NAF - NO ADDED FORMALDEHYDE



ENHANCEMENT OF TOURISM



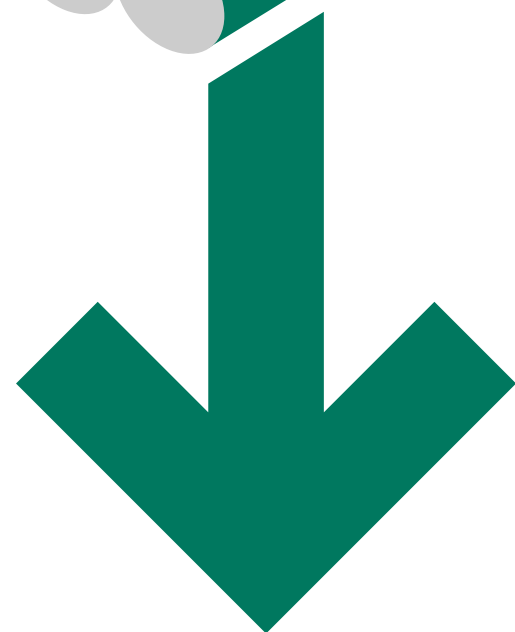
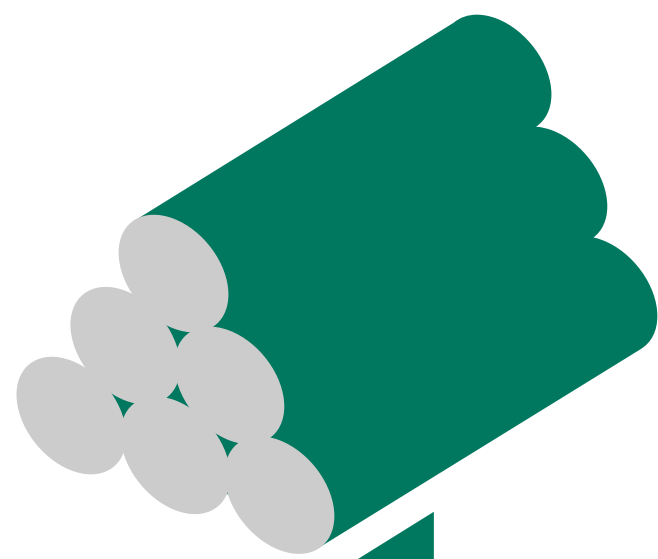
SOIL EROSION REDUCTION



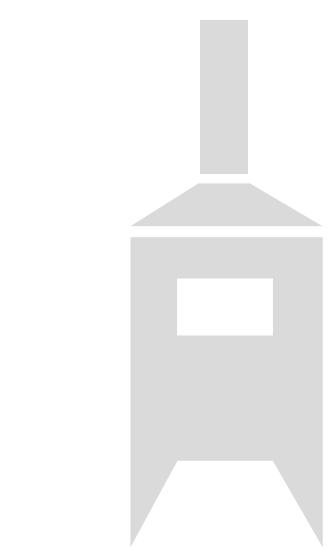
ENVIRONMENTAL PRODUCT DECLARATION

POPLAR LOGS

150,000 t/year



FACILITY



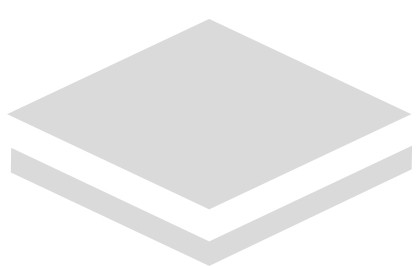
PELLETS



PAPER



PACKAGING



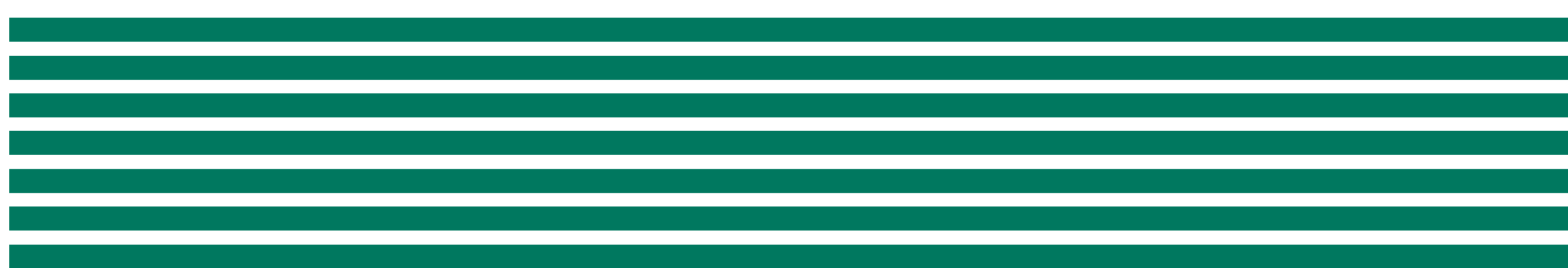
CHIPBOARD

BY-PRODUCTS

BARK
CHIP
SCRAP

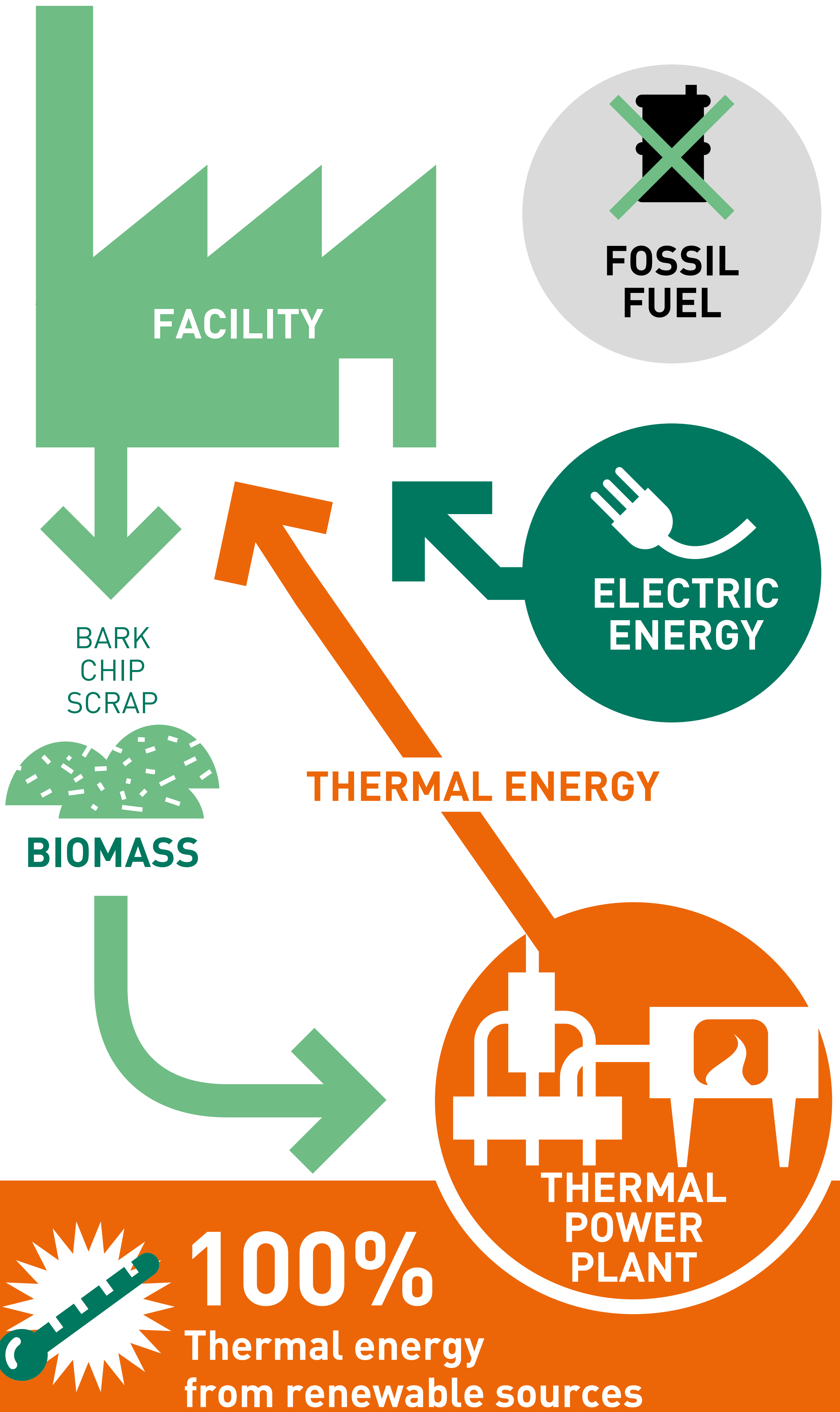


BIOMASS



PANGUANETA PLYWOOD

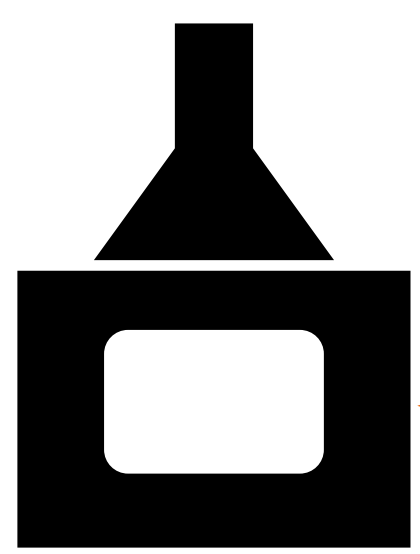
90,000 m³/year



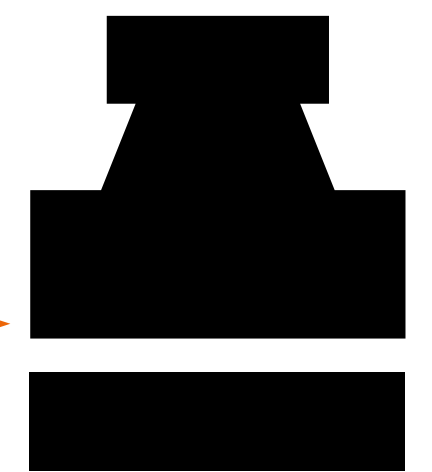
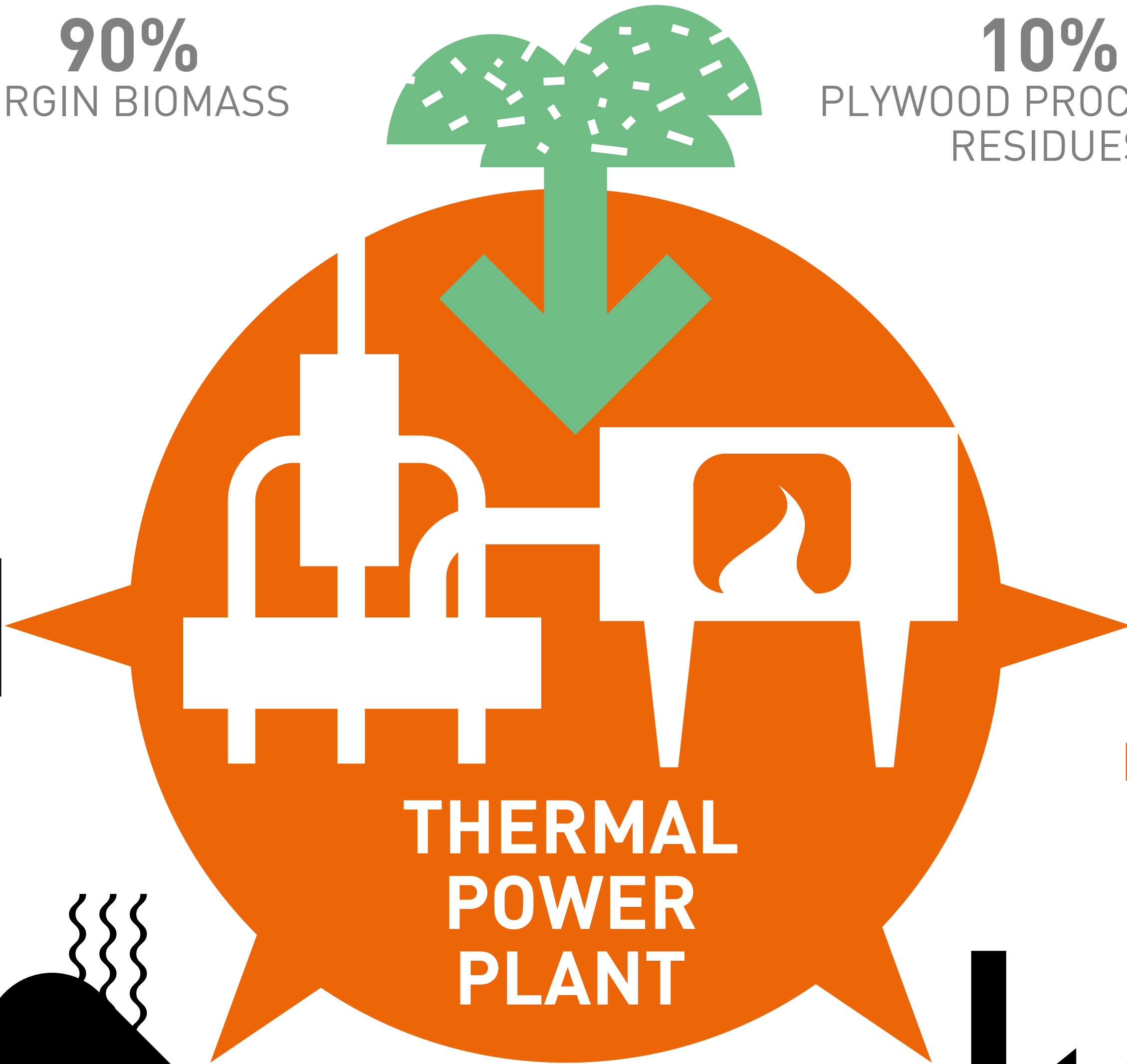
100% Biomass

90%
VIRGIN BIOMASS

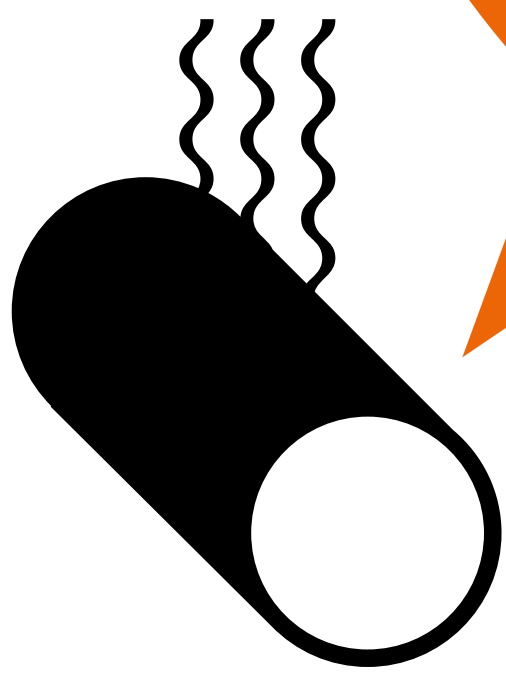
10%
PLYWOOD PROCESSING
RESIDUES



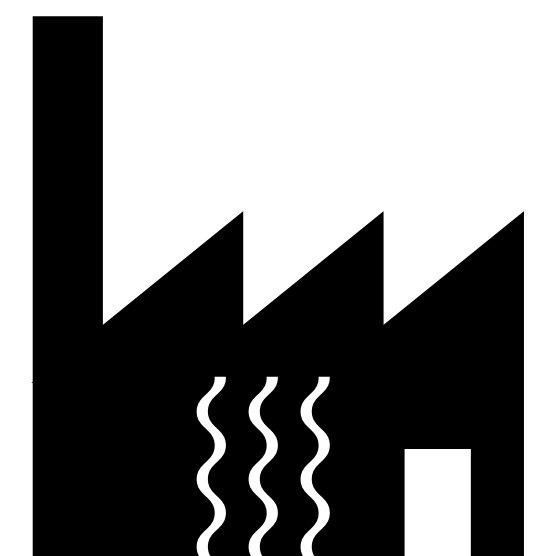
DRYERS



PRESSES



LOG DEFROSTING



FACILITY HEATING



15.5 MWt
Installed power



ZERO

Consumption
of fossil fuel



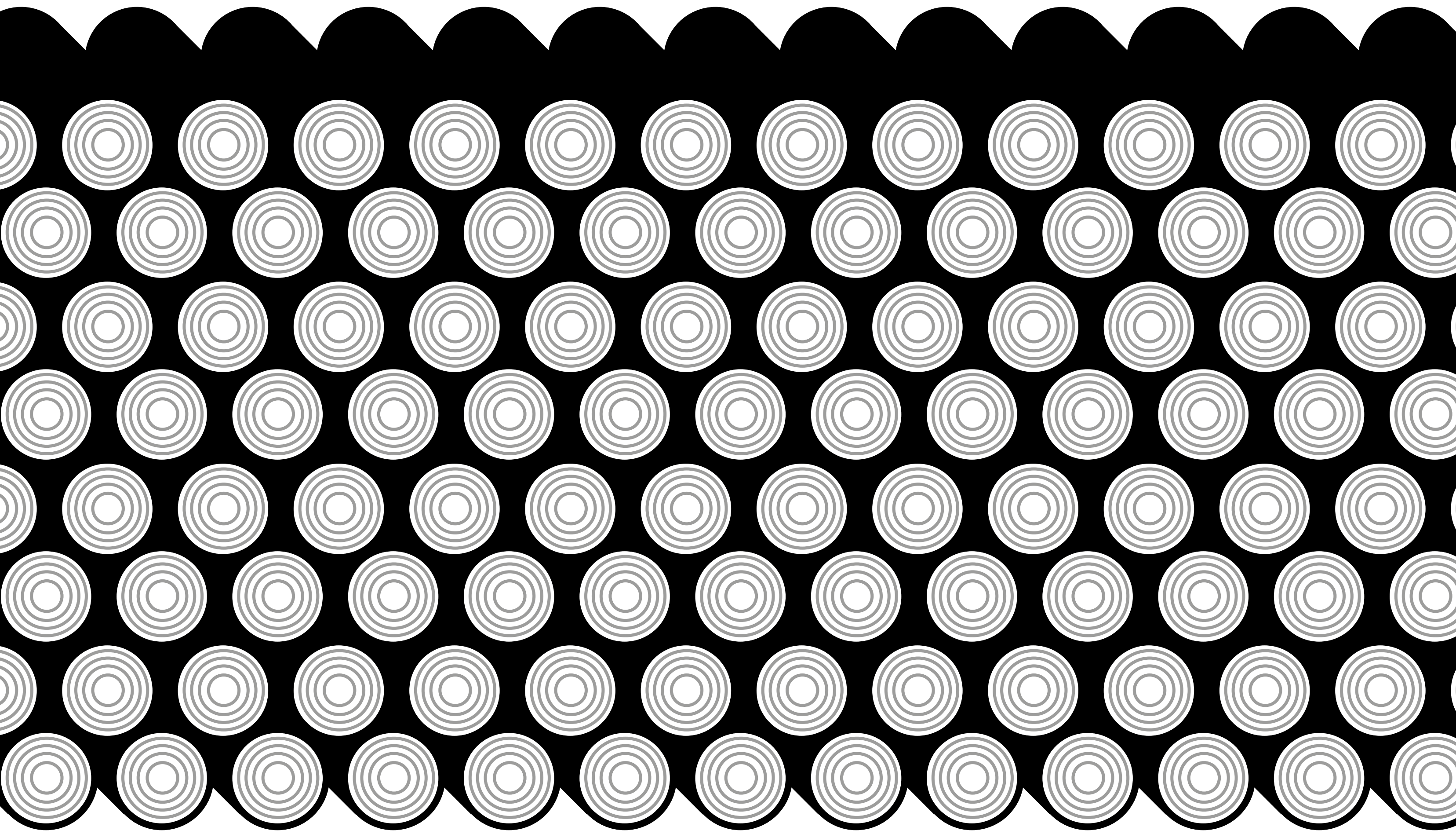
14,000 t/year

CO₂eq saving compared
to production with fossil fuel

7

Log area

40,000 m²



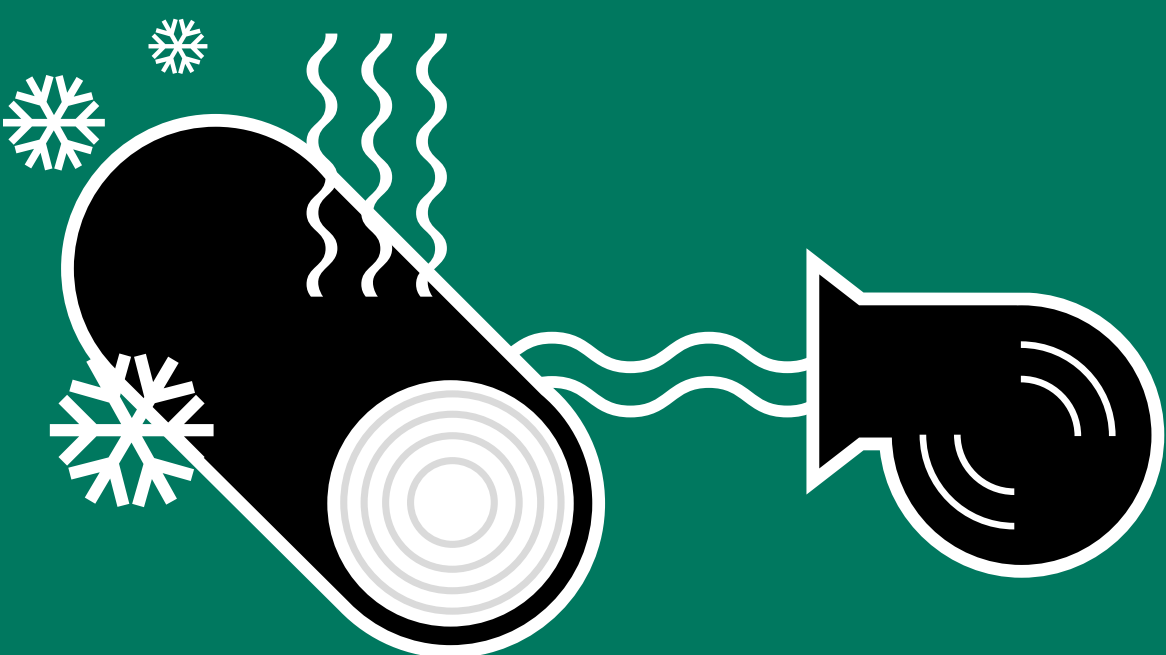
15,000 t



Rotation
every
15-25
days



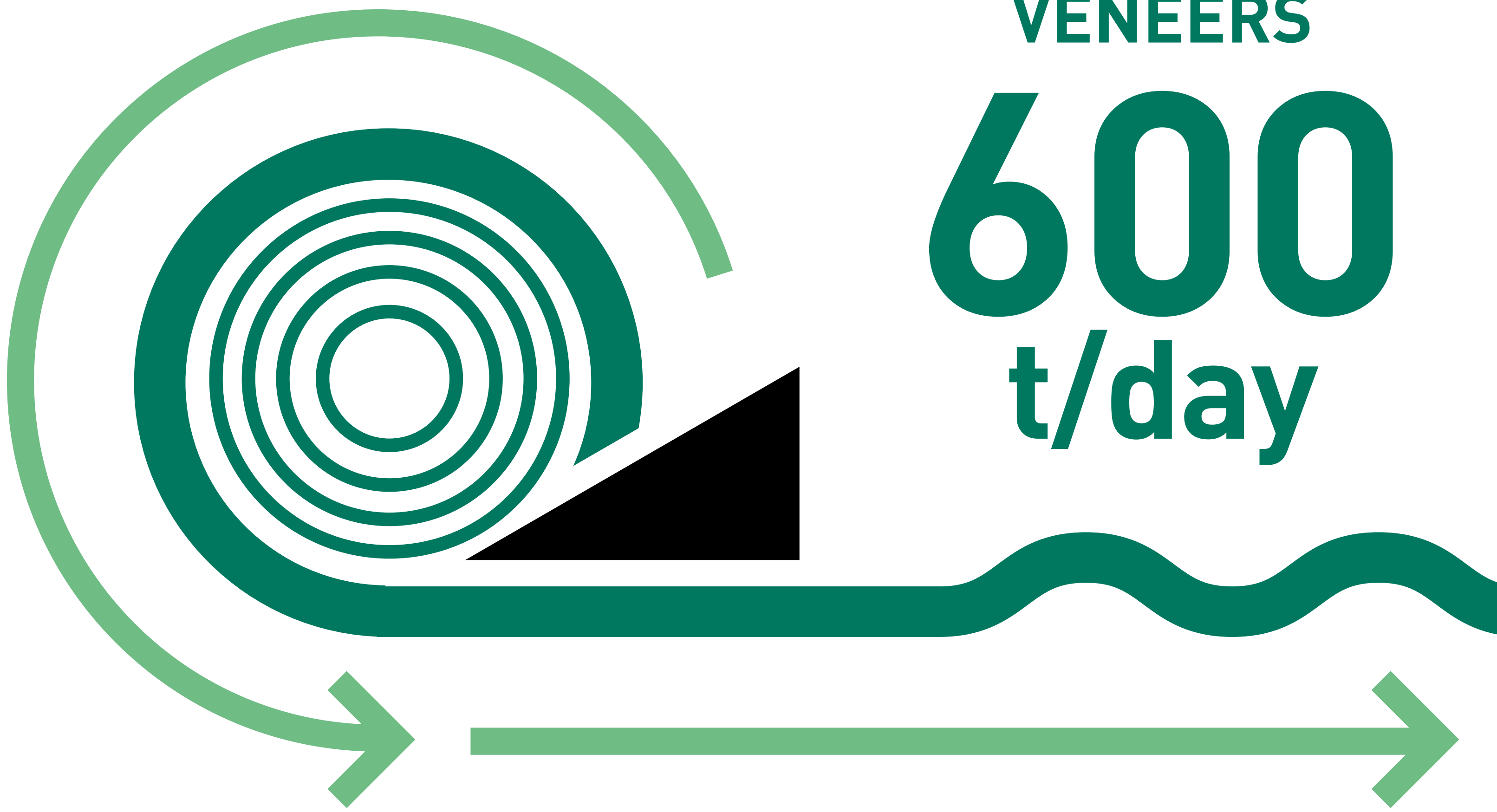
Log selection



Log defrosting



Debarking



DEBARKING



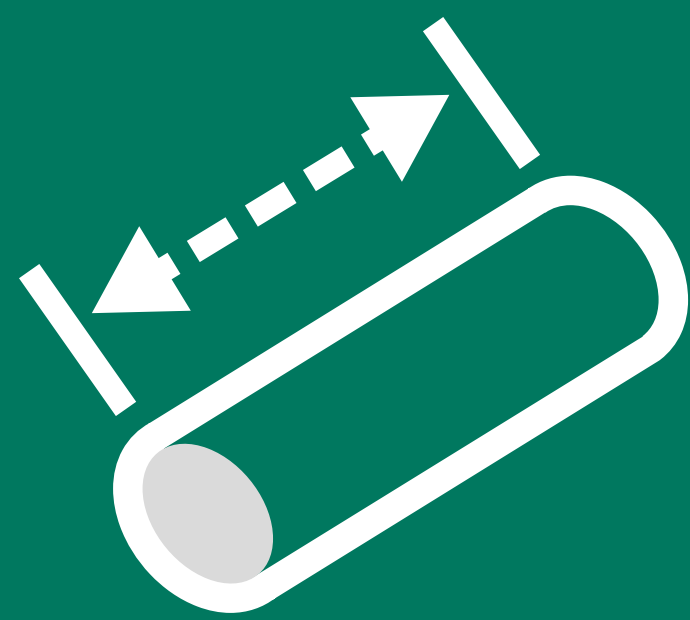
3

Debarking machines



3

Peeling machines

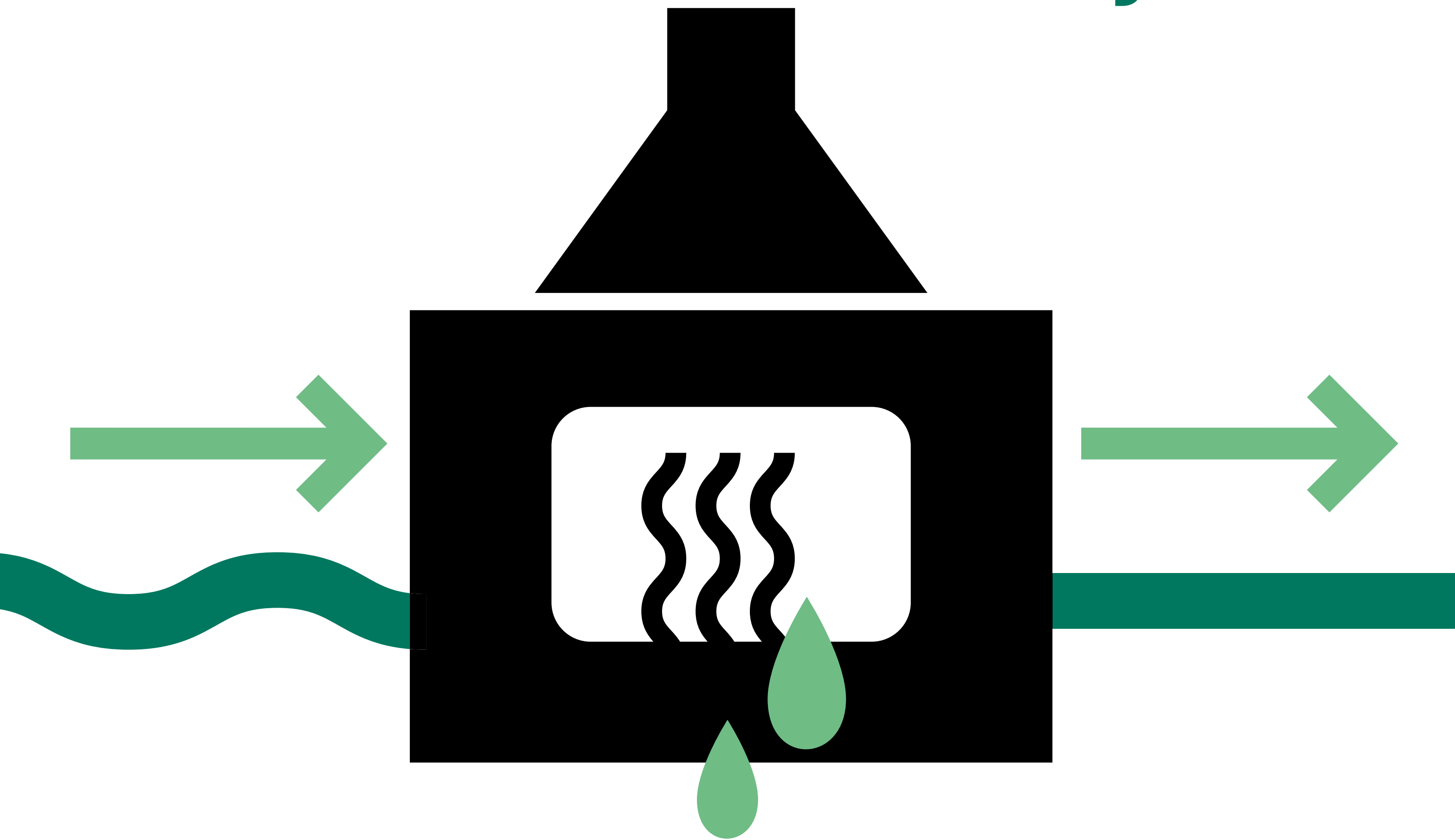


330 cm

Maximum log length

VENEERS

350 m³/day

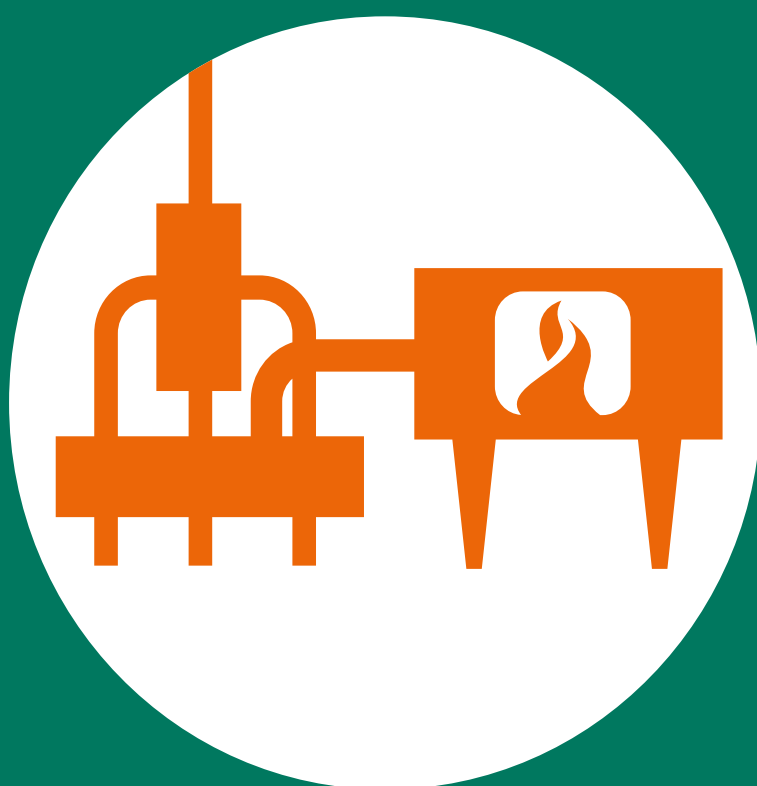


3
Dryers

100%
Thermal energy
from renewable
sources

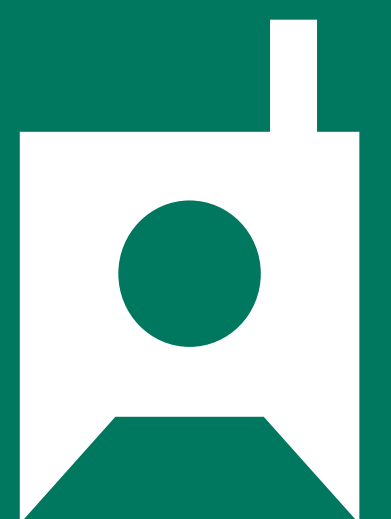


BIOMASS

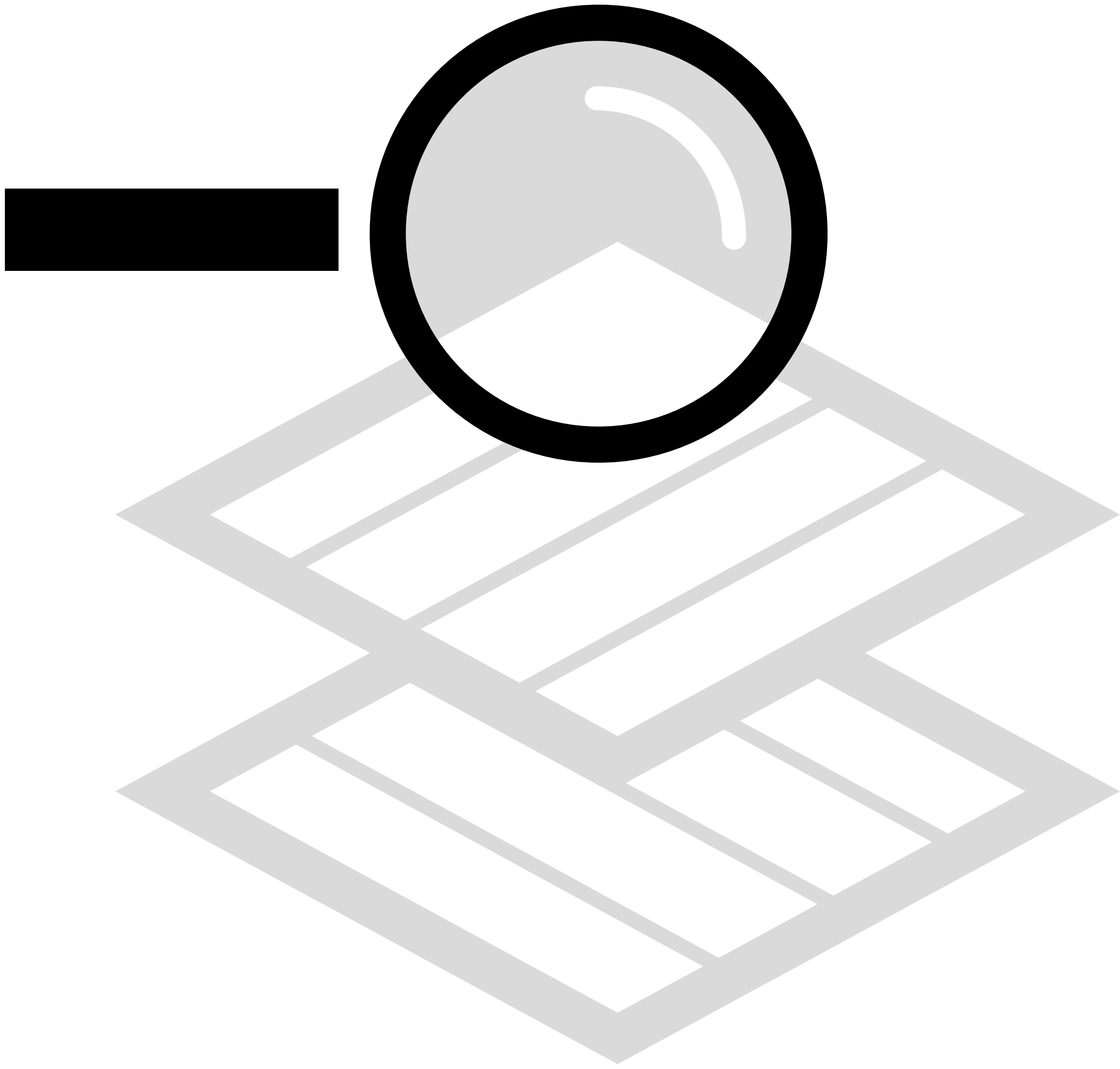


THERMAL POWER PLANT

THERMAL
ENERGY



10 Composition



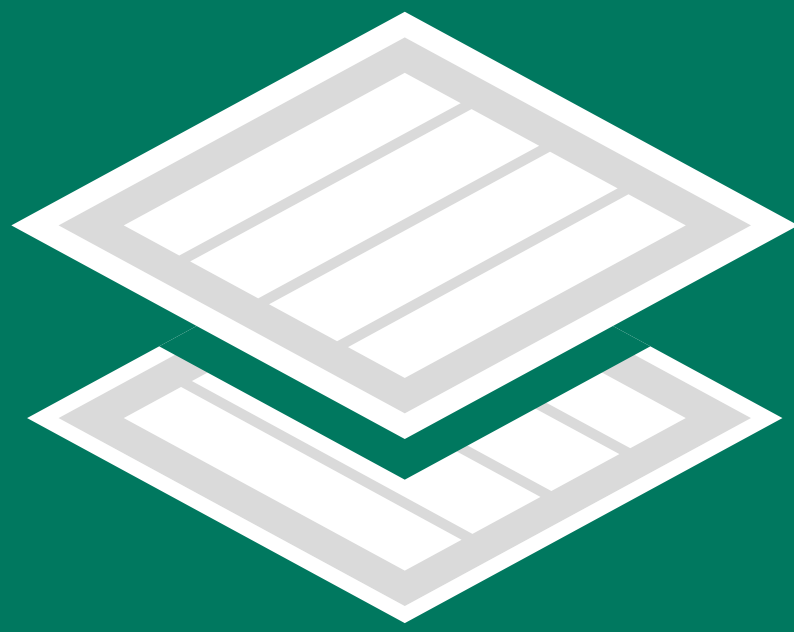
VENEERS

400 m³/day



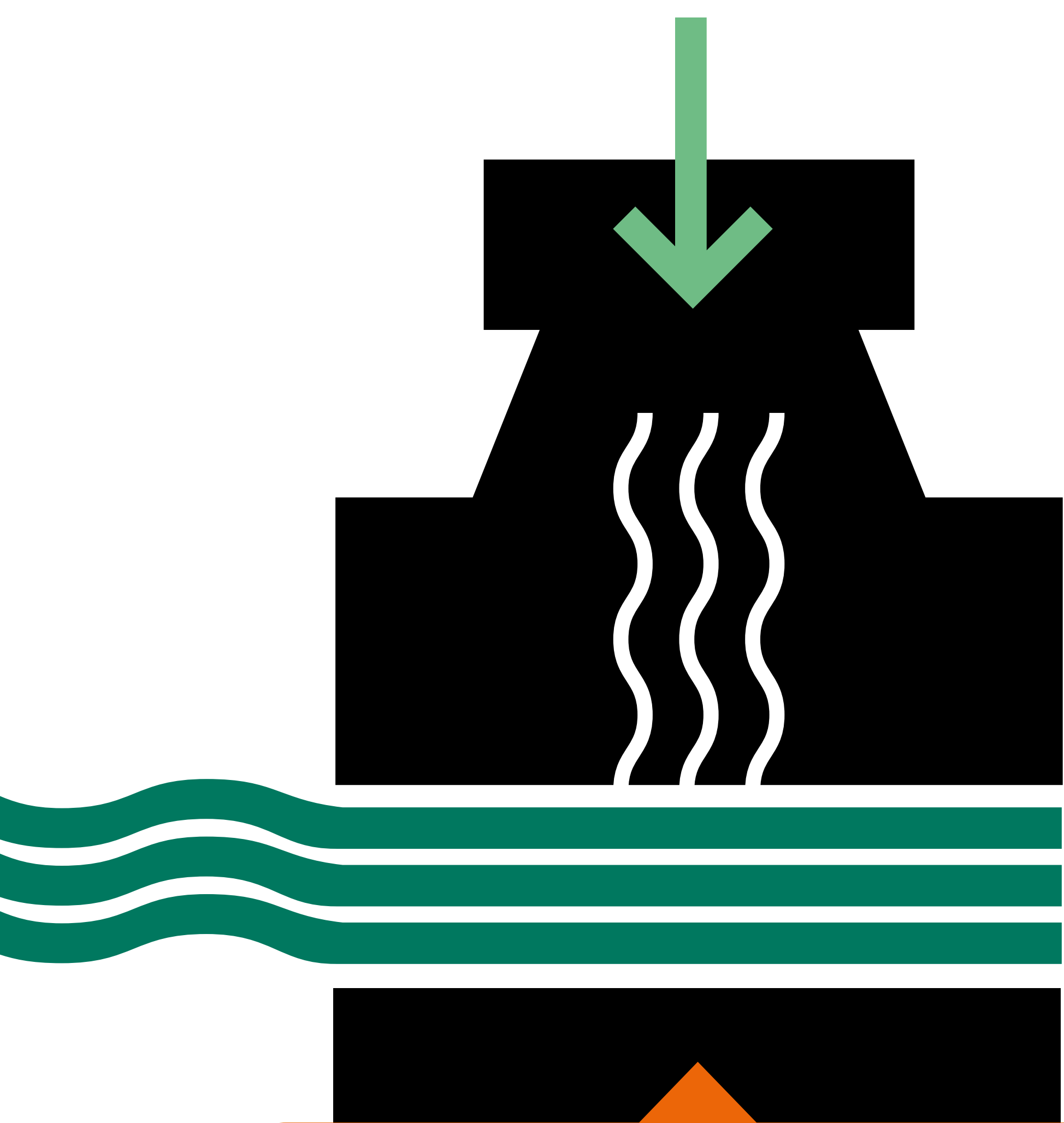
SELECTION

COMPOSITION
OF CROSS-FIBRE LAYERS



LONGITUDINAL
FIBRES

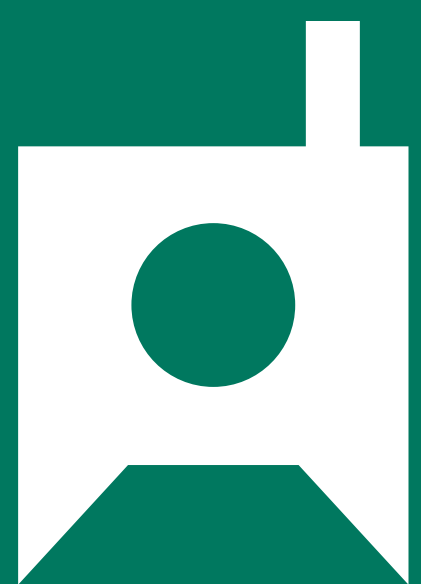
CROSS FIBRES



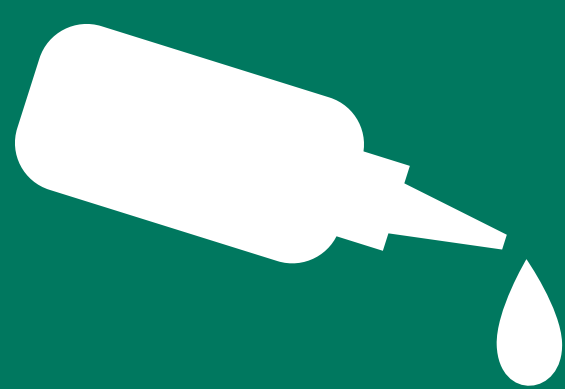
PLYWOOD
350
m³/day

312x212
max cm

100%
Thermal energy from
renewable sources



3
Plants



Gluing

CLASS
1

CLASS
2

CLASS
3

CTB-X



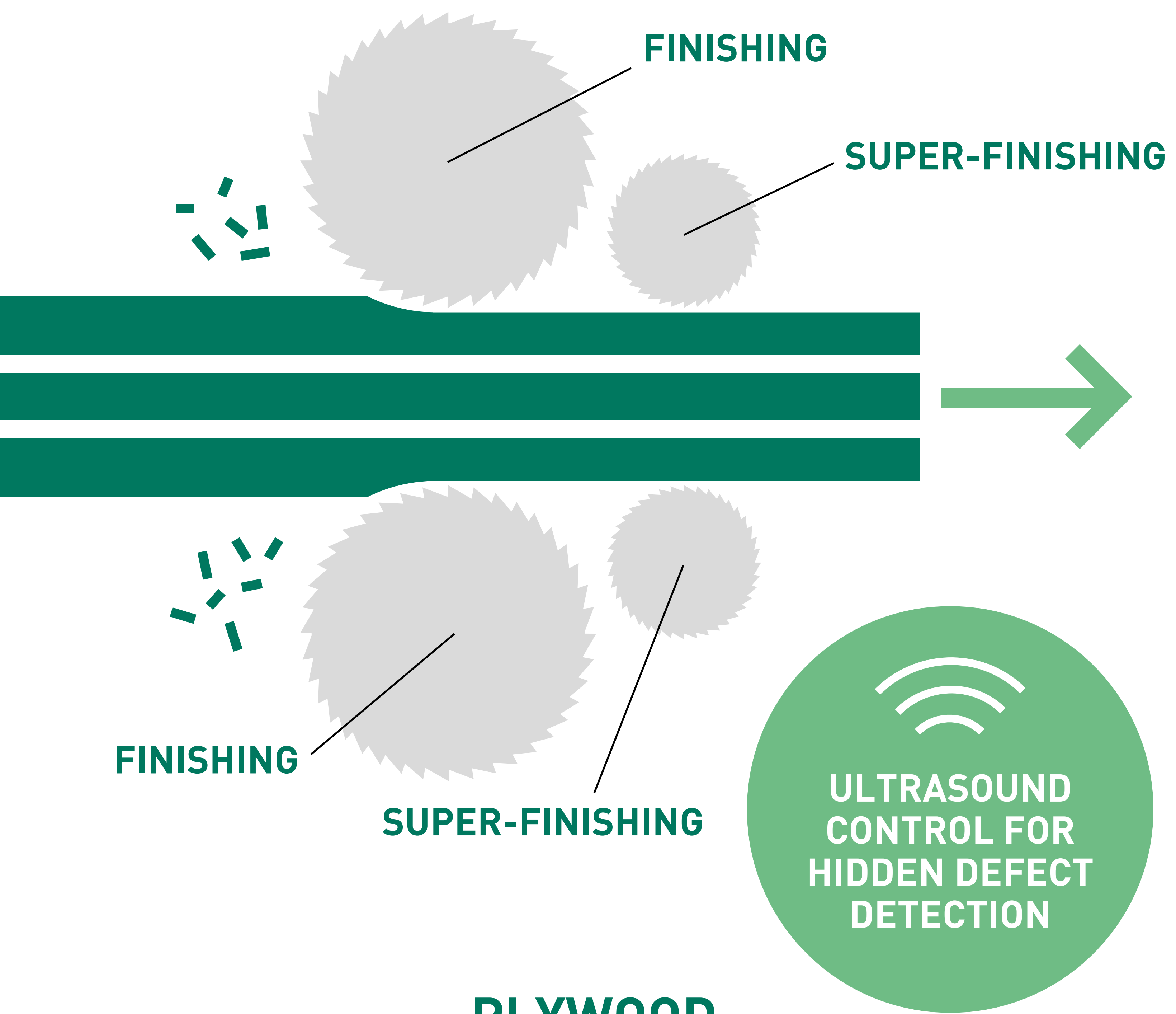
Emission
classes

E1

E05

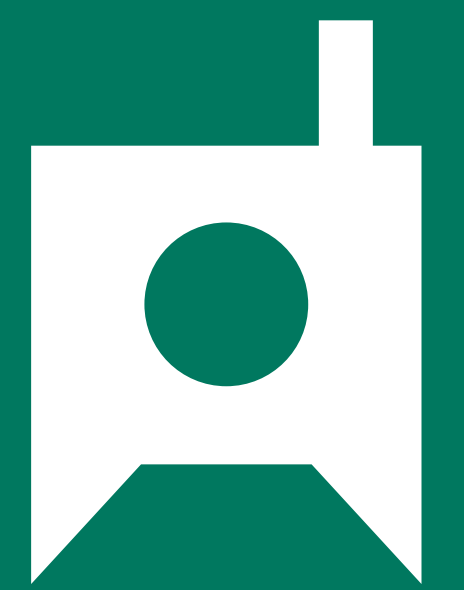
CARB P2
TSCA TITLE VI





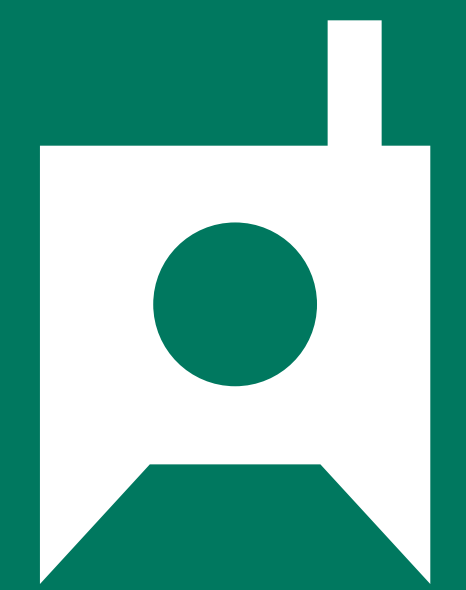
PLYWOOD

400 m³/day



2

Squaring machines



2

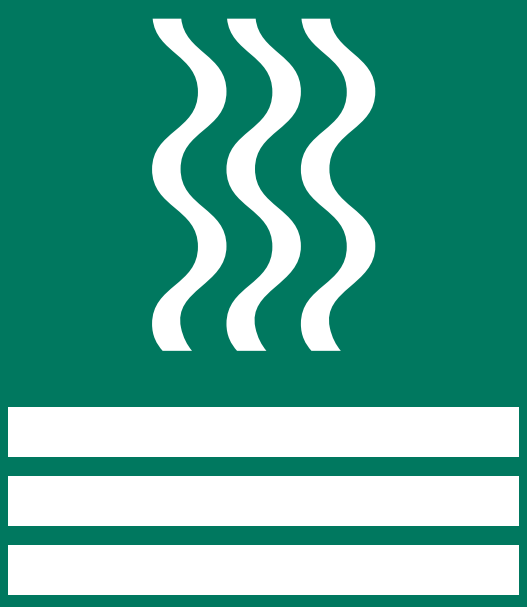
Wide belt sanders



Quality control



OVER
1,000
tests/year



Constant
emission
control



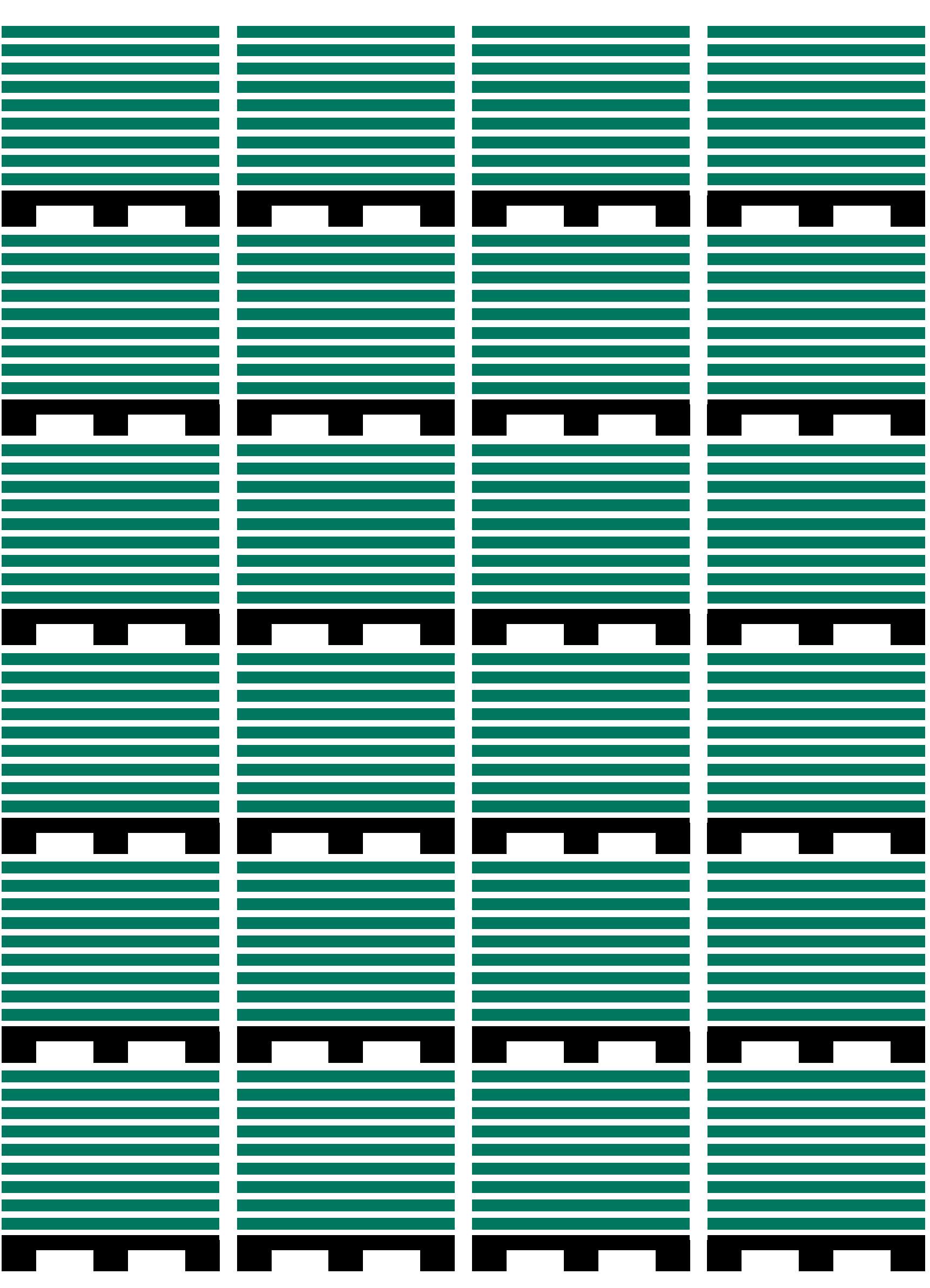
Physical and
mechanical
product
properties
tests



R&D
Research
and
Development

14

Plywood warehouse

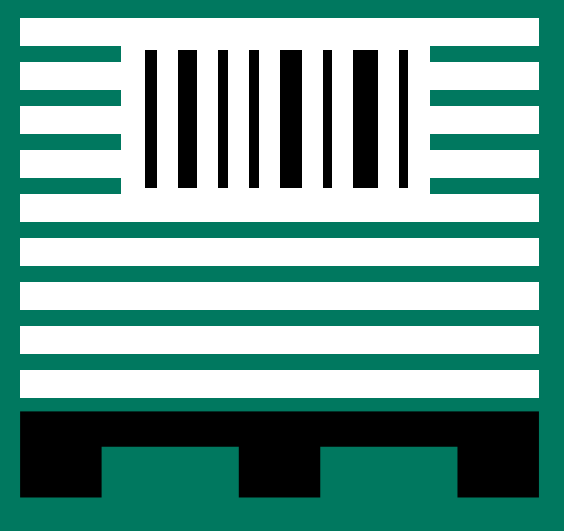


4,000 m³

350,000 m²



Rotation every
15-25
days



Constant
traceability



Optimized transport
for environmental
sustainability



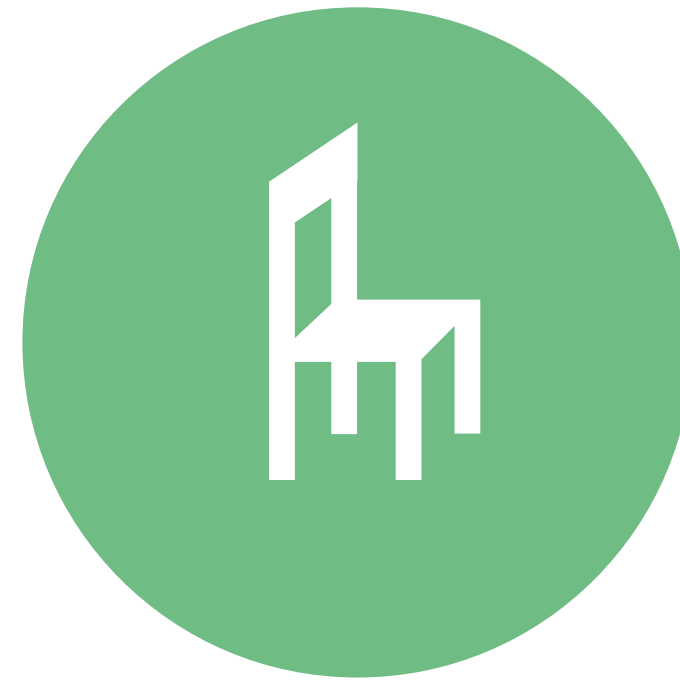
LEISURE VEHICLES

INDUSTRIAL VEHICLES



MARINE INDUSTRY

FURNITURE AND DESIGN



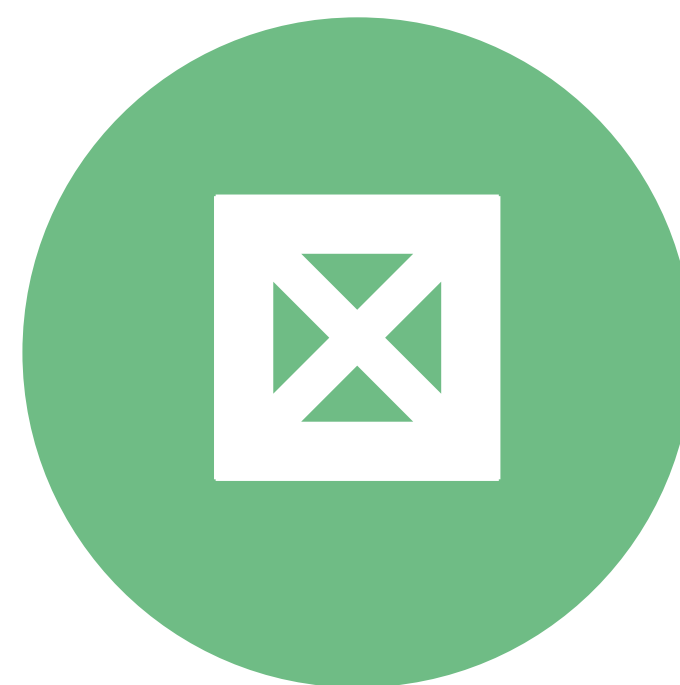
ARCHITECTURE AND DESIGN

PUBLIC TRANSPORT



PARQUET

PACKAGING



DO IT YOURSELF

16 Certifications

ISO
9001

QUALITY
MANAGEMENT

ISO
14001

ENVIRONMENT
MANAGEMENT

ISO
50001

ENERGY
EFFICIENCY

LCA
EPD

ENVIRONMENTAL
PRODUCT
DECLARATION

FSC®
FSC-C019345

PLANTATION
MANAGEMENT

PEFC

PLANTATION
MANAGEMENT

NAF

GLUING
WITH NO ADDED
FORMALDEHYDE

CARB P2
TSCA TITLE VI

FORMALDEHYDE
EMISSION
CONTROL

BLAUER
ENGEL

HEALTH AND
ENVIRONMENT
REQUIREMENTS

A+

VOC EMISSION
CLASS

CARBON
FOOTPRINT

GREENHOUSE GAS
EMISSIONS



PANGUANETA

Plywood For Life

DISCOVER PANGUANETA

was intended as a short and informative guide on Panguaneta's activity.

The data provided, although obtained from reliable sources, are indicative.

For further information:

www.panguaneta.com

Issue April 2022