

EU INNOVATION FUND (IF24) - PAPERSHELL SELECTED FOR FUNDING

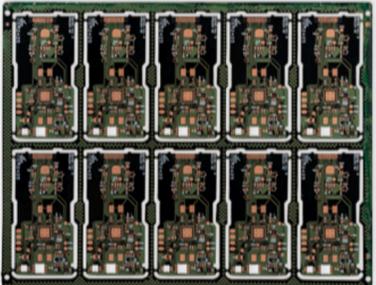
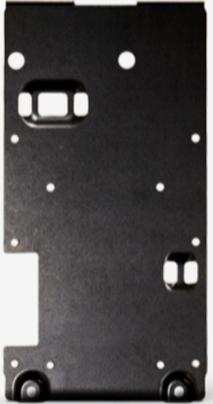
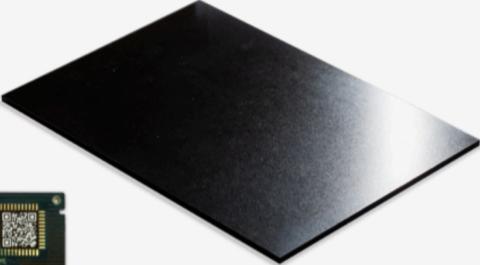
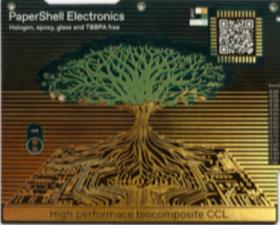
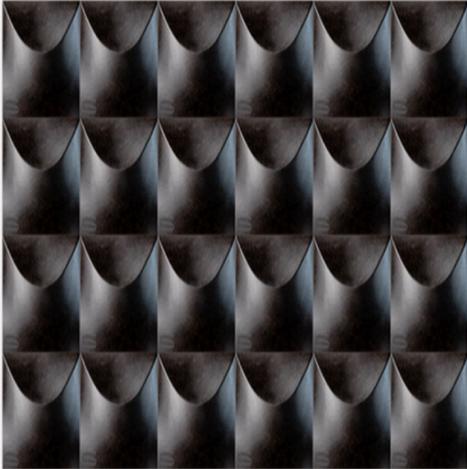


Key figures

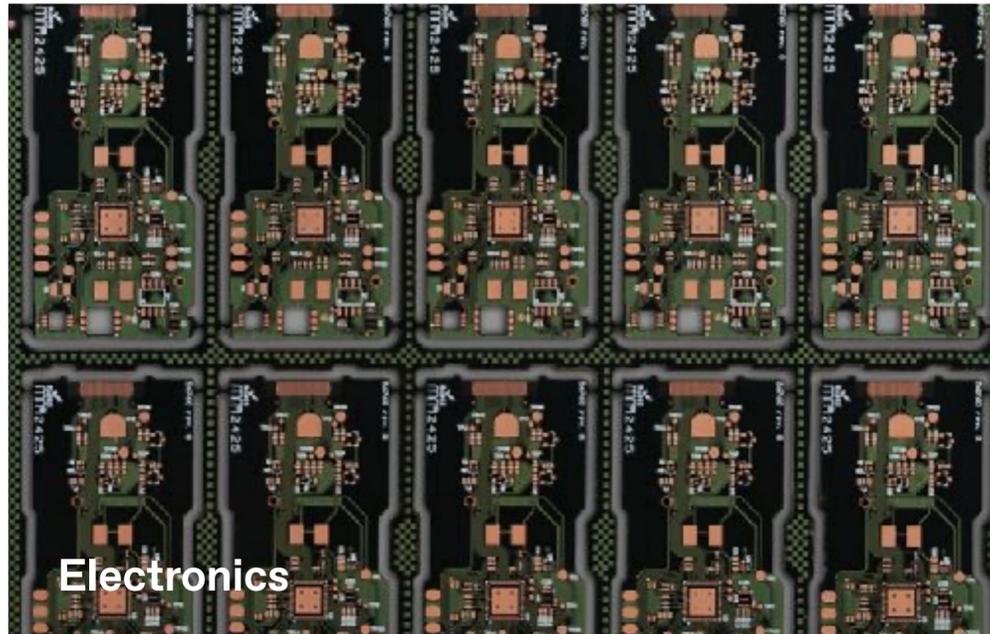
- **Total project investment:** €83.2 million (\approx 955 MSEK)
- **EU Innovation Fund support:** up to €40.3 million (\sim 48%)
- **Project duration:** 10 years (performance-based contract)
- **Entry into Operation (EiO):** Month 47 (January 2030)
- **Production output (2030):** \sim 23,000 tonnes per year
- **Construction market vertical :** \sim 90% of total production volume
- **Off-take agreements at Financial (Q3 2027):** \geq 50% of EiO output
- **Absolute GHG emission avoidance:** \sim 2.35 Mt CO₂e over 10 years
- **Relative GHG reduction vs reference:** \sim 99.4%
- **Cost efficiency:** \sim €17 per tonne CO₂e avoided
- **Biochar production:** \sim 400–500 tonnes per year
- **Jobs (FTEs) created:** \sim 87 direct and \sim 131 indirect

Figures are indicative and subject to final Grant Agreement.

PaperShell - 100% Biogenic Material (Group)



PaperShell - Business Verticals



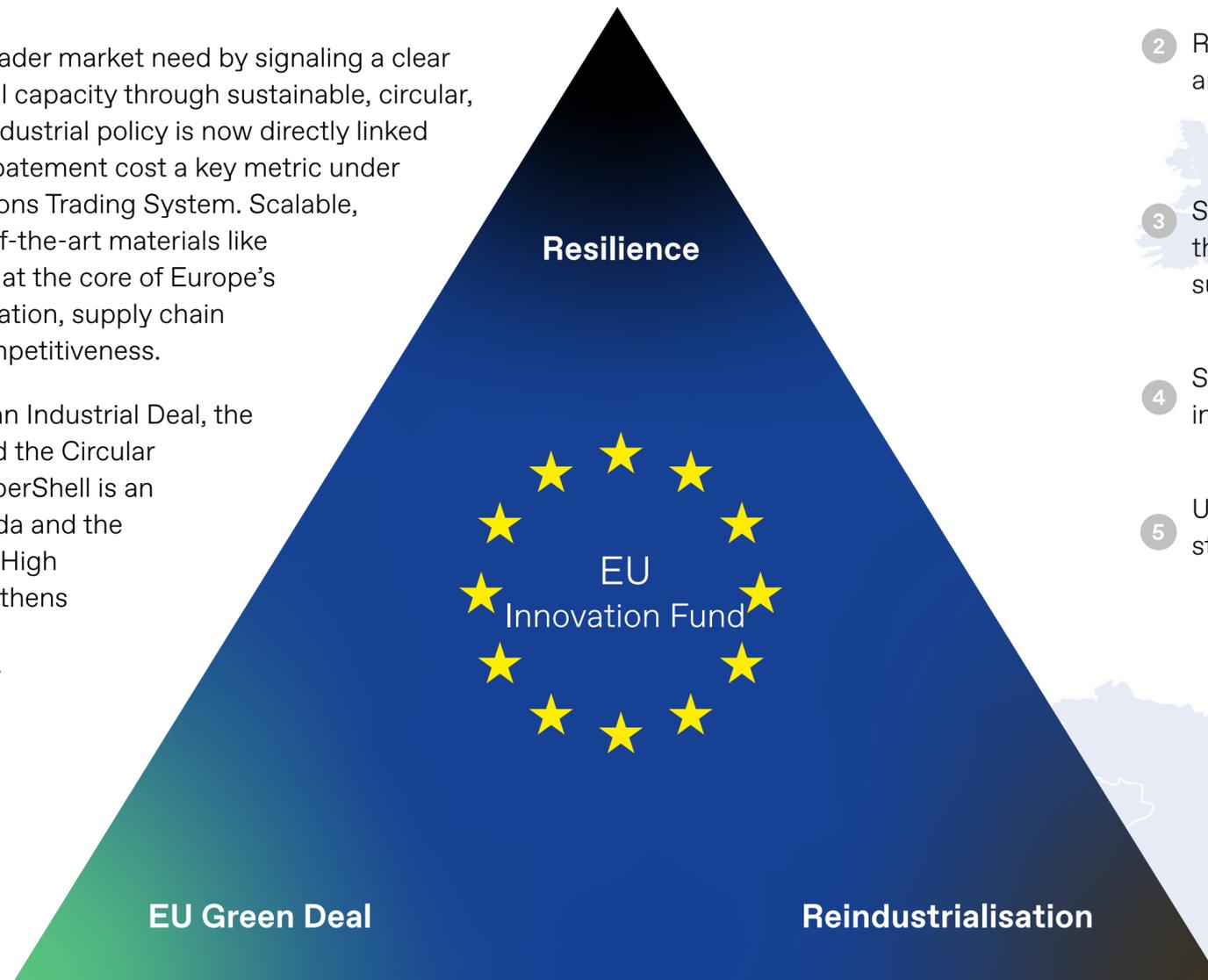
A new competitive landscape - impact reduction, resilience and re-industrialisation drives demand



Sustainability is no longer treated in isolation but as a foundation for competitiveness and geopolitical stability. Europe's sustainability agenda has evolved from the Green Deal into a broader industrial doctrine, where climate goals are combined with the urgent need of increased supply chain resilience and re-establishing industry in Europe.

The EU illustrates this broader market need by signaling a clear direction: rebuild industrial capacity through sustainable, circular, and sovereign systems. Industrial policy is now directly linked to material choice, with abatement cost a key metric under CBAM and the EU Emissions Trading System. Scalable, low-emission, and state-of-the-art materials like PaperShell are positioned at the core of Europe's strategy for re-industrialisation, supply chain security, and net-zero competitiveness.

Fully aligned with the Clean Industrial Deal, the Net-Zero Industry Act, and the Circular Economy Action Plan, PaperShell is an ideal fit for Europe's agenda and the global demand it reflects. High automation further strengthens competitiveness, even in comparison to low labour-cost countries.



EU's new industrial mandate is focused on:

- 1 Reducing dependency on imported fossil- and mineral-based inputs.
- 2 Rebuilding domestic manufacturing and clean tech capacity.
- 3 Securing critical raw materials through circular flows and substitution.
- 4 Scaling climate-positive technologies in high-priority sectors.
- 5 Using public procurement to strengthen regional supply chains.

PaperShell delivers through:

- 1 **Local, fossil carbon free, EU based 100% biogenic and circular feedstocks**
- 2 **Re-industrialisation** - state-of-the-art and fully automated production lines developed together with EU machine suppliers. Enabling Asia independence and cost competitiveness.
- 3 **Resilience** - secure and EU based supply chains of critical inputs (fibres, impregnation, end-of-life, and future in-house binder) eliminating exposure and dependency of non EU suppliers .
- 4 **Carbon net zero (and beyond)** - large-scale substitution of aluminium, plastics and GFRP, avoided emissions and permanent carbon storage.
- 5 **Cost Reduction & Revenue Creation** - Delivering cost-effective CO₂ reductions with negative abatement costs in key applications.



PaperShell's Production process, step by step



Nordic Kraft paper is impregnated with a hemicellulose derivative. And is converted to advanced and load bearing components in highly automated, reconfigurable and flexible continuous lines.

Cycle time
180 - 360
Seconds

Thickness
0,5 - 10
mm/component



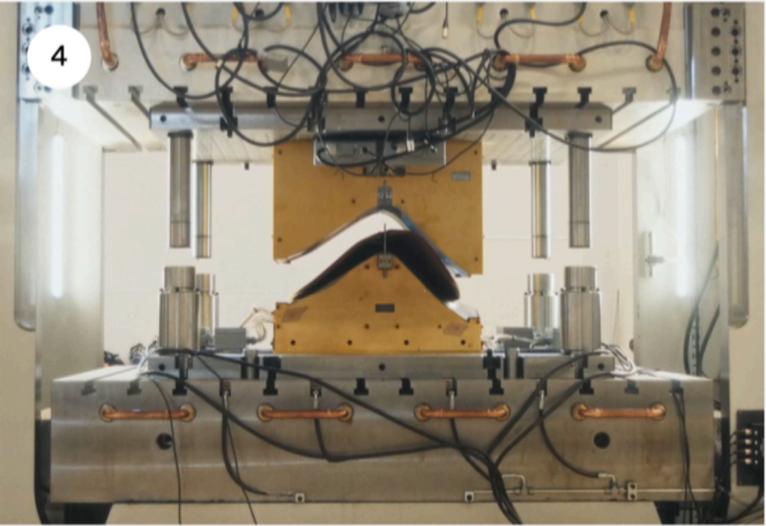
1 The process begins with rolls of kraft paper, impregnated with bio-binder ready to launch the process.



2 The cutting machine creates precise blanks, each one a vital piece of what's to come.



3 One by one, these blanks are carefully stacked, preparing for the next stage.



4 Under the right heat and pressure, the stack transforms, bonding into a solid, durable component.



5 Precision tool mills and trims the edges, refining each component to perfection.

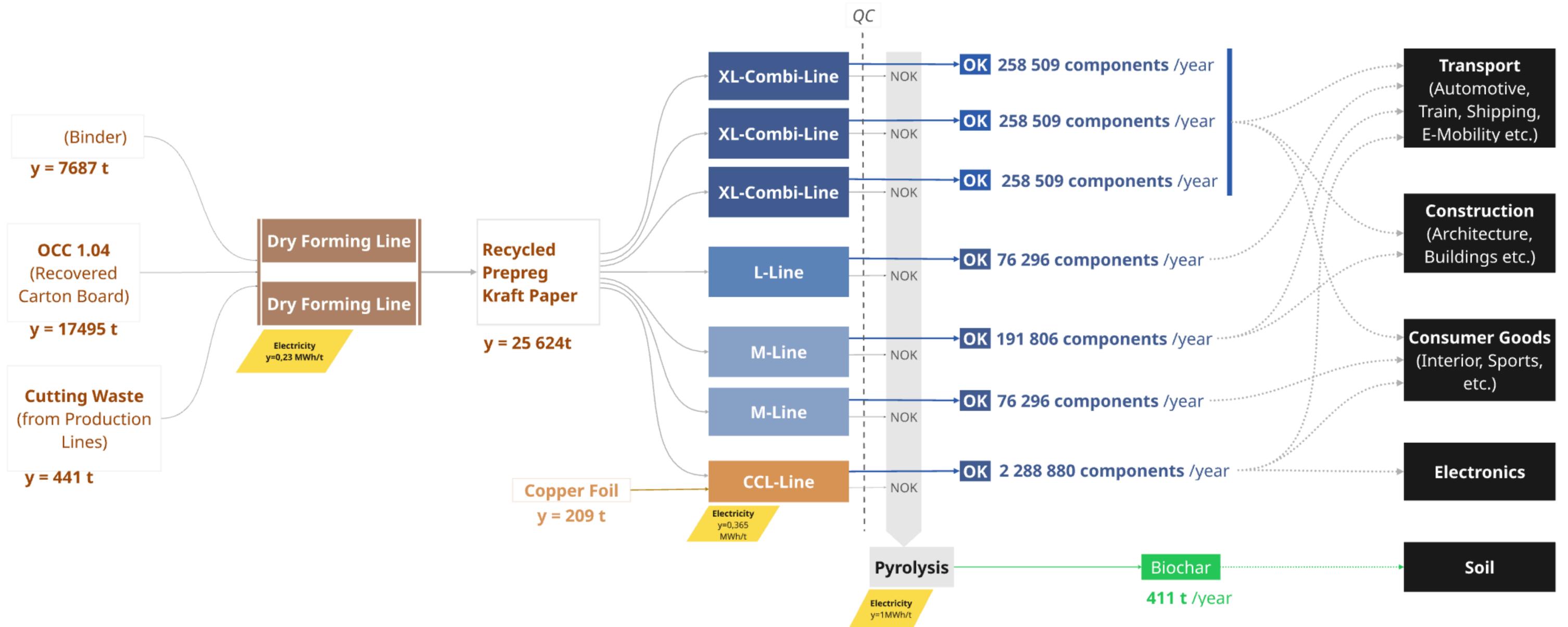


6 Every piece undergoes a final quality check and receives its label, ensuring it meets the highest standards and



7 At last, the components are packed with care and sent on their way, ready to make an impact with our clients.

SCALING MODULAR PRODUCTION ARCHITECTURE



IF24 – PROJECT OVERVIEW

Phases · Work Packages (WP) · Core Deliverables (2025–2034)

