

Upcycling composite materials

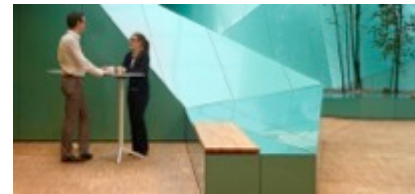
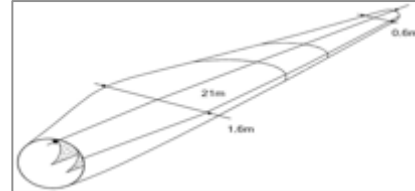
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engineering company
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 sales offices in UK, IR, FI, FR and NO
 main activity in Scandinavia
 activities overseas: India, China and USA



← Romain ← Peter ← Morten ← Paul-Erik



Sustainability Projects Manager
 Logistics Manager
 Industrial designer
 Founder

partnerships

institutes

PlastCenter
 Force Technology
 Teknologisk Institut ...

universities

Aalborg University
 DTU Copenhagen
 Nottingham University ...

private

LM Glasfiber
 Siemens Wind
 Power ...



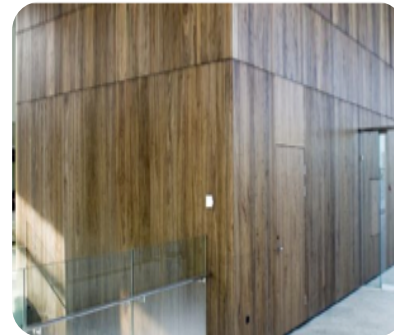
specialized in niche products for the building sector, but growing demand from industry for on-demand alternative and green materials.



Dahl Advokater, Viborg



DSB train station, Aarhus



Aller's headquarters, Cph



KPMG office, Cph

hence, creation of
2013

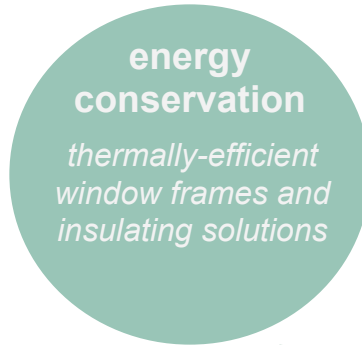


sustaining the industry with
resource-efficient solutions

30% resources



20% resources



50% resources



research

waste overflow issue

Customer A

- Defining waste quality, quantity
- Defining material quality requirements



- Inventorying recycling technologies



- Map flows of waste



- Life Cycle Costing
- Life Cycle Impact Assessment



- Activate the partners



- Production
- Logistics



- Customize the semi-finished material (design, dimensions,...)



- Sale
- After sale services



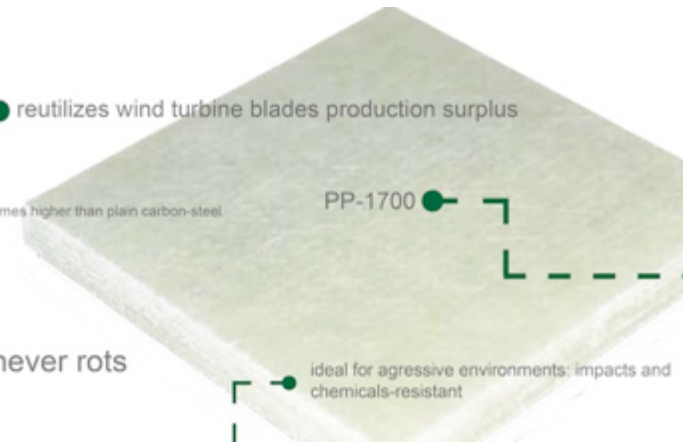
need for alternative material

Customer B

greener, upgraded alternative solutions...

- stronger than virgin fiberglass
- strong recycled epoxy-reinforced glass fiber
- a carbon footprint on average 10 times smaller than comparable board solutions
- completely inorganic

- reutilizes wind turbine blades production surplus
- strength-to-weight ratio 7 times higher than plain carbon-steel



- never corrodes, never rots
- ideal for aggressive environments: impacts and chemicals-resistant

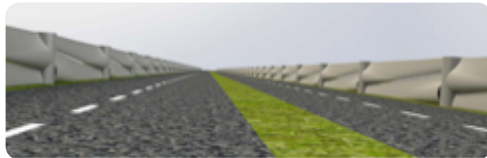
- recycled polyurethane foam
- low thermal conductivity of 0,076 W/mK
- never corrodes, never rots
- looks and machined like wood
- surpluses from the car, refrigerator and foam industries
- a carbon footprint on average 10 times smaller than comparable insulating solutions
- completely inorganic
- ideal for humid and temperature changing environments



PT-200

RecyBlade

The reuse of epoxy-bonded glass fiber windmill blades for structural purposes, potentially used in the aquaculture, mariculture and other infrastructures.



GenVind

The development of recycling technologies to convert end-of-life composite materials from the wind turbine industry into reusable resources.



Vestas



WasteFoamReuse

The reuse of end-of-life PVC components to be foamed and integrated into thermally performant PVC window frames, allowing consequent environmental footprint reduction.



Fraunhofer



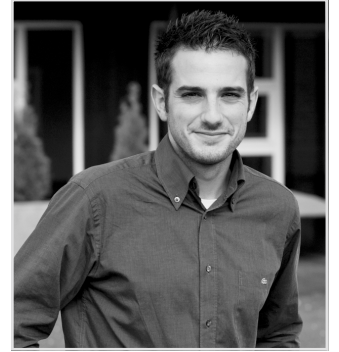
Romain Sacchi

Sustainability Projects Manager

With an environmental engineering background from Aalborg University, Romain has specialized into Environmental Assessment techniques, such as Life Cycle Assessment and Environmental Product Declaration.

Additionally, Romain developed a strong interest for Environmental Management and issues regarding corporate responsibilities vis-à-vis the environment, the waste treatment and clean production techniques.

Finally, Romain holds a bachelor degree in Production and Logistics management.



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