

## Finalist 2



### **The "SI500" is designed by Snøhetta and manufactured by "Nordic Comfort Products NCP"**

Our aim with the Snøhetta designed l677 chair in collaboration with Nordic Comfort Products - NCP (furniture manufacturer) and Nova Sea (fish-farm producer), who are both from the Helgeland coast in the North of Norway, has been to produce new furniture from 100 % locally recycled plastic from the ocean. We want to emphasize how to use recycled plastic in new ways through innovation and design and at the same time boost local community and business with a circular economy mindset. Our goal is to show the potential in something that is currently regarded as valueless to the public and industries globally, and to emphasize the value and resources that are inherent in already existing materials. The l677 chair is inspired by Bengt Winge's R-48 chair – a Nordic classic from the 70's due to its excellent comfort, weight/strength ratio, and ideal design for injection molding. Injection molding of a chair shell is an effective manufacturing technique due to its rapid production time, the texture and surface possibilities embedded in the actual cast, as well as the limitation of the amount of assembly parts needed. All together this process limits the waste and after-work processes that other manufacturing techniques often require. The chair shell will be made of 100 % locally recycled ocean plastic which has been utilized as e.g. big bags, ropes and fish nets along the coast of Helgeland, provided by fish-farm producer Nova Sea. The production and assembly of the chair will be done at NCP's facility in Hemnesberget, which is also located along the coast of Helgeland. The chair subframe will be made of 100 % recycled Norwegian steel. The full product, including packing and shipping to customer, is expected to entail merely 6 kg CO<sub>2</sub> per chair from cradle to grave, which is extremely low CO<sub>2</sub>-emission. We believe that the l677 chair will have the potential to showcase multiple stories that will inspire people to take part in circular economy initiatives. One is by showcasing how one can contribute to local growth in an area like Hemnesberget/Helgelandskysten, where industry is limited and jobs are scarce. Another is to teach school children about the journey of ocean plastic in the sea and in the value chain, and the ways in which the material can be reused for better purposes. The third is to generally show how a curiosity for material innovation can lead to the design of new and exciting products made from untraditional (and traditionally considered) "waste" materials. Our overarching goal is that other industries will be inspired by the l677 chair story and delve into their own material knowledge and innovation projects, to the benefit of people and the environment.

## Finalist 3



### **The "Siesta" chair is designed by Ingmar Relling and manufactured by "L. K. Hjelle Møbelfabrikk AS"**

A chair with low weight and low volume. With a long lasting durability for generations. The flexible design allows easily to be transformed into new styles/colours/materials. Easy to assemble. Made by local suppliers in environmentally friendly components. The bentwood gives the chair high comfort.

The Siesta chair consist of sustainable materials. The design allows less material than common chairs. The load-bearing construction is made of only 4 different parts made out of plywood. The bent laminated parts have a core made of beech, and a top layer of ash or oak can be added on top. The cotton canvas is braided by a thin rope to the front- and back legs, to support different styles of cushions. This is a clever solved solution that enables flatpack transportation. The volume of one high back chair is 0,154 m<sup>3</sup> and the weight is 12,0 kilograms. There can be loaded 190 units in a 20 feet container. The original Siesta chair has been produced since 1965 and is shipped world-wide. It can be made as highback, lowback, with or without armrests, and also as a ottoman.

## Finalist 4



**The "HÅG Sofi Communication 7502" chair is designed by Frost produkt, Powerdesign, Flokk design team and manufactured by "HÅG/Flokk"**

HÅG SoFi communication is a friendly, generous with a light appearance. The highly innovative lumbar support enhances the end user ergonomics and makes the chair feel comfortable and tailored to the highest number of users and work situations. HÅG SoFi communication is a visual attractive and ergonomic fully functional office chair with yet strong environmental properties; low carbon footprint of 93 kg CO<sub>2</sub>, no glue or harmful chemicals, and 41% recycled materials with 33% plastic from household waste. The Rivet textile is made of 100% recycled post-consumer plastic. High circularity is secured through Flokk's 5-III eco-design principles; timeless design, 10 years warranty, changeable wearing parts and disassembly with no need of special tools.

## Finalist 5



### The "Vippeistol" chair is designed by Gunnar Eidsvik Tvedt

The objective behind this project was to combine functionality and aesthetics in a way that challenges existing products in the same category. Products such as baby bouncers are characterized by an extensive use of plastic parts, limited lifetime and a sole focus on practicality. Since these products are often a necessity, it might seem like aesthetic qualities are seen as superficial and of lesser value. Based on this the plan was not only to create a product that performs a specific set of tasks, but a functional piece of furniture. By elevating the material and aesthetic values of such a product, you will also prolong its lifespan and encourage reuse through resale or inheritance. This would require few and sturdy components to also be able to keep the sales price on a competitive level. By maximising the potential of each part and material the product is made up from, a more viable and sustainable product can be achieved. Even though children's products tend to last for a limited time interval due to growth, there is no need to make such products with a limited life span. The sustainable value of this product is based on its longevity. This is enforced by its aesthetic quality which evokes emotional attachment making it more prone to resale or handing down to the next generation. These connections are substantial when considering the lifespan of objects and will by that reason have a great impact on its general value. The tendency today, also among products for children, is to incorporate technology and added functionality to make everyday life easier. In this case it can directly impact the relationship between parent and child. By making use of material properties, this baby bouncer will make use of the child's own movements to create soothing motions which is the one and only real purpose of such a product. The bouncer can also be folded flat both for transportation from the factory, but also to make it flexible for the user. Every part is interchangeable, and there is no permanent connection between different materials. There are also no plastic parts.

## Finalist 7



**The "Bow" chair is designed by Petter Knudsen, Anders Berg & Steinar Hindenes and is manufactured as a prototype.**

To make a small furniture family, based on a Stool, a Chair, a Bench and Tables in variations... all in solid wood. The visual form is simple but with a strong expression. It gives a unique character. The idea for model BOW comes from the line that occurs when a wooden board is processed on different sides with the same profile. That gives a feeling of a volume with 'no' sides. The meeting of top and under seat is going as a loop edge. All parts of solid wood. All parts are easy to produce. Show also possibilities for some upholstering part. We do have prototypes of a high and low barstool. A long life because all parts of solid wood. The material and the surface is easy to refresh after a long use. All parts can go back to nature after a long life & duty.