Sustainable ship design for a sustaina

In response to climate change, current megatrends, stakeholder expectations, as well as evolving international regulations, Aker Arctic has developed a sustainability guidance plan towards a more responsible future while helping customers to achieve their sustainability goals.

The sustainability plan is aligned with the three main topics outlined in EU corporate sustainability reporting directives, namely E=Environment, S=Social, G=Governance (ESG).

The areas considered most relevant in Aker Arctic's daily work have been identified. In these we believe we can add most value for our customers, our stakeholders, our people, and our planet.

Good governance is the basis for everyday work

Aker Arctic's projects have increasingly shifted towards renewable energy production, for instance wind power, and supporting markets for renewable fuels, including hydrogen, methanol and ammonia.

We will continue to focus on projects in these areas, while working with responsible customers, shipyards and stakeholders. This is in line with our renewed strategy that now incorporates ESG.

Aker Arctic's mission is to produce and develop services and products that enable sustainable and safe operations in ice-covered waters. We are therefore fully committed to International Maritime Organisation (IMO) greenhouse gas reduction targets.

Throughout the company's history, Aker Arctic experts have actively taken part in and facilitated discussions in the industry. Examples include: participating in IMO workshops, presenting R&D at global shipping events, arranging the yearly Arctic Passion Seminar in Helsinki, as well as publishing articles on new projects, development trends and research findings in Arctic Passion News – the printed and online company magazine.

In our selection of partners, codes of conduct and safety have always guided us, but now ESG has been added to the requirements.

Preserving the environment for future generations

As an engineering office, Aker Arctic's own emissions are quite small. However, Scope 1 & 2 greenhouse gas (GHG) emissions have already been monitored for five years, and the aim is to continue reducing them through various actions. Scope 3 emissions will be defined during 2024.

Scope 1 emissions are direct GHG emissions from sources owned or controlled by the company. Scope 2 emissions refer to indirect GHG emissions associated with the purchase of electricity, heat, or cooling. Scope 3 emissions encompass all other indirect emissions in the value chain.

About six years ago, solar panels were installed on the office roof, providing renewable electricity during the sunny months of the year. Nevertheless, Finland has many dark months, during which

ble planet

outside providers are needed. The target is to switch to 100 % renewable energy year-round in the near future.

Enabling customers to reach their goals

Increasing the carbon handprint and climate impact in the value chain are where the prime positive environmental influences can be achieved. In every new vessel project, the design should be more sustainable than its predecessors.

This means considering what fuel options can be implemented to reduce climate impact. Additionally, lower emissions can be achieved both in construction and operations by utilising the latest technologies and implementing new approaches.

For example, in the recently designed Swedish icebreaker, the requirement was to design a vessel with 70 % lower emissions than the previous one, and this was achieved.

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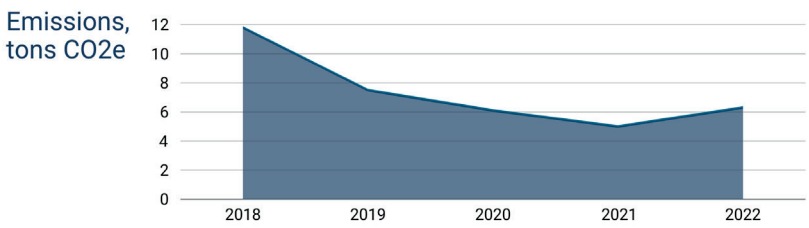
Lifecycle assessments (LCA) are further recommended in every new project, where GHG emissions in the design are calculated to support customers in their decisions. The aim is to help customers find ship solutions that reach their requirements, consume less energy, and use carbon-neutral energy alternatives.

Carbon footprint per employee



Solar panels installed on the office roof have provided renewable electricity for about six years. Photo Catarina Stewen

"In every new vessel project, the design should be more sustainable than its predecessors."

Passionate ice people are the key to success

Aker Arctic employees are all tremendously enthusiastic about ice, icebreaking, Arctic areas and improvements in technology. This is the place where our passionate team finds daily meaning in their work. We are continuously developing our expertise to achieve even more successful operations in ice. Aker Arctic's high employee satisfaction score, long-term employment and low sickness leave records testify to this.

In addition to competitive salaries and a salary equality policy, employee benefits are on a high level; occupational healthcare and regular joint recreational activities being among them.

As a responsible and flexible employer, cycling and public transport to work is encouraged. Remote working opportunities are offered, and free charging points for employees using electric cars are provided.

All ESG actions are part of creating a green organizational identity, where every Aker Arctic employee actively cares about ESG and contributes to a more sustainable future.

We will continue to monitor key sustainability indicators such as carbon footprint, energy efficiency and social impact metrics and publish results annually to ensure transparency and to track our progress towards a more sustainable future.