

Sustainability is a choice

Our approach to sustainability

CEO perspective

With our new strategy in place during 2016, Cermaq has geared up and refocused its vision as a driver for sustainable aquaculture.



Working in the aquaculture industry for more than 30 years has been a spectacular journey, and in the past decade the focus on sustainable development in the salmon industry has moved to the core of our operations.

By aligning our strategy with the UN Sustainable Development Goals (SDGs), we are prioritizing areas where we can have a significant impact and make a difference. Our important work in the Global Salmon Initiative (GSI) continues, and is going forward, and it is now time to expand our efforts also outside the salmon industry. As a consequence of our new strategy, Cermaq has entered into selected partnerships with the seafood industry and the wider food sector within the areas of ocean stewardship and responsible food production. In November 2016, we started a comprehensive dialogue with seven of the largest seafood companies in the world in the initiative Seafood Business for Ocean Stewardship, and established clear commitments to transparency, ocean sustainability, innovation and responsible supply chains. In 2017, we joined the FReSH program initiated by EAT and the World Business Council on Sustainable Development. Our goal is to contribute to reshape the global food system and develop frameworks for healthy and sustainable food production, and integrating sustainable seafood in diets worldwide.

Cermaq's approach to sustainability is based on the pillars of transparency, partnerships and perfor-

mance. We believe a company which openly reports its results also has a better overview of its risk and oppor-

tunities, a stronger basis for dialogue with stakeholders, and a better ability to actually make progress on material topics. At the same time, strong partnerships enable us to achieve more progress on common challenges such as the SDGs, and be at the forefront of innovation. We are the only company in the industry to have audited sustainability reports, and the only seafood company with quarterly performance updates online. We hope there will be more companies who follow.

Our efforts have not gone unnoticed, and we are proud to have been ranked #1 of 100 seafood companies in Seafood Intelligence's flagship report on transparency in the global seafood industry in 2017. In 2016, we were recognized as a corporate champion on SDG14: Life below water by DNV GL in their report "The future of spaceship earth", projecting progress towards the SDGs.

As one of the world's largest seafood companies, we recognize that we are a part of a small but very influential group. And we have a responsibility to ensure that the seafood industry is not only profitable but also sustainable, working to achieve progress on the SDGs, in particular those related to the sea. With our partners, we represent a global force that can – and intend to – make a positive difference.

1. Malik

Geir Molvik, CEO Cermaq Group

April 2017

It is not only about supplying sustainable seafood to consumers; it is about becoming stewards of the world's ocean and aquaculture environments.

- The Seafood Business for Ocean Stewardship initiative

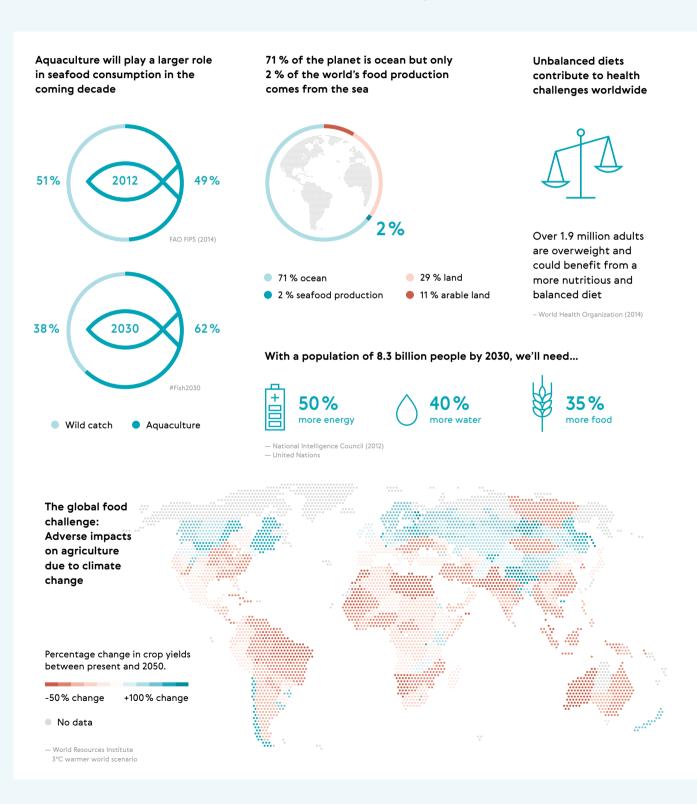
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Global megatrends

A profound change of the global food and agriculture system is needed to nourish today's 765 million hungry and the additional 2 billion people expected by 2050.

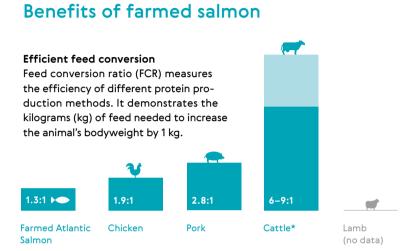
- UN Sustainable Development Goal #2



The solution

Aquaculture is crucial for supplying the world's food needs for the next 50 years.

- Former UN Secretary General Kofi Annan (AquaVision 2012)



 The FCR of cattle production has a larger range due to the varying types of feed used. Varying feed costs for the industries considered above have an influence upon the feed conversion ratios.
 Global Salmon Initiative

High edible yield

Edible yield is calculated by dividing edible meat by total body weight.



These calculations take into account differences in FCR, differences in edible yields, and the cost of progeny. - Global Salmon Initiative

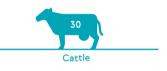


Small carbon footprint A carbon footprint measures the total greenhouse gas emissions caused directly and indirectly by the production of one kilo of edible product.











A carbon footprint is measured in kilograms (kg) of carbon dioxide equivalent (kgCO2e) per kg edible part of the product. – Global Salmon Initiative

"Fisheries and aquaculture is supporting the livelihoods of 12 percent of the world's population."

Cermaq's strategy

Our sustainability work is centered around five concrete focus areas, each describing our approach to contribute to achieving a corresponding Sustainable Development Goal (SDG).

Focus areas



Our ambition is to produce healthy and nutritious food to a growing world population, and play a role in improving the global food system. By aligning our work with the SDGs which we can significantly impact, we can achieve more progress and pursue common opportunities in collaboration with our customers, local communities, public and private partners.

Sustainability in Cermaq means to produce healthy and nutritious salmon in an environmentally, socially and economically responsible manner. Producing sustainable salmon means we work continuously to ensure sustainable practices in all aspects of our operations, throughout the value chain. We do this through the means of partnership, transparency, and performance focusing on our highest impact areas, as outlined in our five focus areas.

Being open about results is key to corporate responsibility and is a driver of progress. Our quarterly and annual performance reports can be found on www.cermaq.com/sustainability Our approach to achieving progress on our focus areas is based on three pillars:

Transparency We are transparent in our work to create trust, ensure traceability and be accountable to our stakeholders. Our audited annual sustainability reports and quarterly online performance updates are examples of how we work on transparency.

Performance We work continuously to create sustainable value through operational excellence, research and innovation.

We focus on our highest impact areas and innovate across disciplines to create shared value with society for the long term. Some measures to achieve this is ASC certification and a dedicated global R&D team.

Partnerships We share knowledge and engage in partnerships to find solutions to common challenges.

This means collaborating on key issues, sharing knowledge and engaging in dialogue. Our active engagement in the Global Salmon Initiative (GSI) illustrates one of our partnership activities.



Farmed salmon is rich in healthy nutrients such as marine omega-3, proteins, vitamins and minerals, and is a healthy food choice.

Healthy and nutritious food

Cermaq is committed to quality, traceability and food safety at every level, from broodstock to the delivery of delicious, nutritious food. Salmon is one of the richest sources of omega-3 fatty acids, which are known to help lower the risk of cardiovascular disease. Experts recommend replacing some meat meals with fish, because it is a healthier source of protein and a good source for other essential nutrients. It's a healthy change, and an essential one for our planet.

Transparency The best salmon has a delicate color and perfect texture, exquisite flavor and is rich in healthy nutrients. We hold ourselves and our salmon to the highest standards, working with third-party certification bodies to build on the reputation for quality that our customers expect. Transparency and traceability is our promise to our customers. We report our sustainability performance quarterly on our web page and actively provide information related to our many certifications.

Performance Healthy fish is a necessity in all fish farming operations and of crucial importance to Cermaq in delivering a high quality product. We work continuously to ensure optimal conditions for our salmon and the environment in which they live – in Patagonia, Tofino or the Arctic.

Good routines adapted to the different environmental conditions determine the management choices we make on each farm every day, throughout the whole life cycle of the salmon. Keeping the fish in good condition, in a favorable location, is a key element in Cermaq's fish health management. In our operations, we pay great attention to water quality, genetics and stress reducing practices to enhance fish welfare.

Our salmon receive the nutrients they need in each life stage through the feed. This is crucial to ensure a high

quality product. We follow strict regulations and measures to ensure that our fish meet the highest safety and quality standards. The salmon diet consists mainly of protein and fats. About 30 percent of the feed come from marine sources, such as forage fish, fish trimmings and byproducts. By increasing the share of vegetable ingredients in the feed, the environmental footprint on marine resources is reduced without compromising nutritional value. Certified soy, gluten (from wheat) and rapeseed oil are some of the ingredients used. However, most marine omega-3 today comes from fish oil, and Cermaq is engaged in research and initiatives with the salmon industry and feed producers to develop novel sources responding to future needs.

Partnerships We work actively with our customers and partners to deliver high quality salmon and create awareness of the role of sustainable seafood in healthy diets. As business partners to initiatives such as EAT and the FReSH program (see page 22), we work together with companies in the food sector, research institutions and civil society to integrate both health and sustainability aspects into global food production and consumption.

SDG2 importance

In a growing world population



with challenges related to obesity and hunger, farmed salmon may provide a solution to the growing demand for protein and healthy diets. Farmed salmon is a healthy food choice and is rich in nutrients such as omega-3, proteins, vitamins and minerals.



Cermaq's fish welfare index (CWI)

Fish quality depends on fish health and welfare. Cermaq has a holistic approach to fish welfare and recognizes the importance for our salmon to meet its needs at any given time, both physiological but also behavioral, in order to have good welfare. Based on this recognition, Cermaq Norway has chosen to develop a welfare index which can be used to classify the fish welfare status in each stage of the production. The Cermaq Welfare Index (CWI) is based on measurable criteria of the physical environment in which the salmon lives (including water quality parameters) and scoring of the fish at an individual level and at a population level.

Salmon as superfood

Health authorities and nutrition advisors recommend eating more seafood. Salmon contains marine omega-3 fatty acids, vitamin D, iodine, and selenium; nutrients which are rare in other types of food. In addition, salmon provides highly digestible protein. According to NOFIMA, farmed salmon today contains over 20 times more essential fatty acids (EPA and DHA) compared to chicken, red meat and eggs. Farmed salmon have one of the highest omega-3 levels of any seafood in the grocery store, with between one and five grams of omega-3 per 100 gram serving.



Thriving oceans

Cermaq depends on healthy oceans to produce sustainable salmon, both in our operations and through our feed supply. Ocean stewardship and SDG14 is at the top of our agenda.

To grow our salmon, Cermaq and the salmon industry rely on thriving oceans and healthy marine ecosystems. Ecosystem integrity and access to marine resources is a necessity for us to grow our salmon and for our industry to provide the world with healthy seafood. We work through partnerships and with strong commitment to transparent reporting to build trust, share best practice and drive progress on SDG14.

Transparency Responsible sourcing is a key measure to preserve biodiversity and natural resources, and to strengthen resilience to climate change. Our biodiversity impact is monitored and reported on our web page, where we also map species present on the IUCN red list in areas of operation. Cermaq monitors the benthic impacts of fish farming, and ensure that we comply with or exceed all fallowing requirements and have good benthic status. Wildlife interaction and sustainability indicators are reported monthly and in some cases weekly for our ASC certified sites. This information can be found on the ASC Dashboard on our webpage.

Performance If fish farming is to be sustainable, the industry depends on sustainable feed resources. To reduce impacts on marine resources, an increasing share of the fish feed comes from agriculture (approximately 70 percent). Responsible sourcing in the agricultural sector is therefore increasingly relevant for fish farming. Our impact on fisheries is also through our feed supply, and to manage risks in our feed supply chain, we have established a Supplier Code of Conduct specifically for feeds suppliers. Measures include certified sources of the feed ingredients used and R&D on optimal fish diets.

Partnerships We work with our suppliers and the industry to eliminate any Illegal, Unreported and Unregulated (IUU) fishing from the supply chain and promote transparency and sustainable practices in fisheries and aquaculture. One example of this is through our participation in the Seafood Industry for Ocean Stewardship initiative, established in 2016, together with some of the world's largest seafood companies regarded as keystone actors in marine ecosystems.

In our operations and through our engagement in the Global Salmon Initiative (GSI) we work together with the industry to find solutions to key sustainability challenges in salmon farming, including feed and nutrition, biosecurity impacts and implementing best practices through standardization.

SDG14 importance



The farming practices in the salmon farming industry are more technologically advanced than any other fish farming practice. The salmon farming sector may offer knowledge and technology transfer to other aquaculture areas to enhance and encourage a sustainable use of the ocean in the rise of the blue economy.

Responsible sourcing of fish feed

Cermaq's Code of Conduct for feed suppliers specifies requirements to our feed suppliers on quality, traceability and sustainability, including social standards. Requirements include that fishmeal and fish oil should only be sourced from regulated and certified fisheries, and raw materials used should be accompanied by certifications (e.g. MSC). No ingredients shall originate from IUU catch or vulnerable or endangered species, and all soy purchased shall be certified by the Round Table on Responsible Soy (RTRS) or equivalent. Type of raw material, country of origin and name of supplier is to be reported regularly. The Code is available on www.cermaq.com

Seafood Business for Ocean Stewardship

Initiated in 2016, the Seafood Business for Ocean Stewardship (also referred to as Keystone Dialogues) is an initiative that, for the first time, connects the global seafood business to science, connects wild capture fisheries to aquaculture, and connects seafood companies all over the world. The ambition is to lead a global shift towards sustainable seafood production and a healthy ocean, actively contributing to the UN SDGs – in particular SDG14. In the first dialogue, a joint statement was produced by eight of the world's largest seafood companies, including Cermaq, committing to working for ocean stewardship on a set of key areas.



People leadership

In Cermaq, we rely on motivated employees and we want to be a responsible partner for the local communities where we operate, to earn the trust we need to grow fish in our common waters.

Salmon farming is often located in remote coastal areas, and our operations provide employment in local communities. Cermaq contributes to local value creation in many ways: we provide jobs, we purchase from local businesses, support community activities and events, and provide education and learning opportunities in our areas of operation.

Transparency Cermaq aims to be a responsible community partner with a long term perspective. People leadership involves establishing good relations with our stakeholders including employees, customers, local communities and suppliers. Establishing and maintaining good relationships based on dialogue, transparency and mutual understanding is important to us. Our stakeholder dialogue is reported on our webpage and we provide quarterly health and safety updates for all our operations. We conduct community meetings and reach out to different stakeholders including trade unions, environmental organizations and authorities, describing our performance and activities, and responding to requests for dialogue and information.

Performance Important elements of our people leadership are also to ensure a safe and motivating workplace. Our performance depends on the wellbeing of our people, and it is our goal to be an employer of choice, attracting and retaining skilled and motivated employees who want to be part of a growing and innovative industry. We strengthen our health and safety awareness through a clear tone at the top of the importance of safety and visible leadership. 'Health and safety first' is reflected in Cermaq's Leadership Principles and performance is reported monthly to Cermaq's management.

Partnerships An important part of being a responsible partner is being a responsible employer. This implies

ensuring safe working conditions, respecting human rights and indigenous peoples' rights, and working to ensure good labor standards in our operations and supply chain. One example of such dialogue is Cermaq Chile's CSR committee, established with members from Cermaq Chile's management team and trade unions to discuss key topics on a regular basis.

Cermaq is a member of the UN Global Compact and we work to ensure adherence to the ten Principles in our operations and supply chain, covering the topics of Human Rights, Labour, Environment and Anti-corruption. We encourage our suppliers to do the same and to integrate the UN Sustainable Development Goals in their strategies. An example of how we work on indigenous peoples rights, is the agreement between Cermaq Canada and the Ahousaht First Nation, which is based on Cermaq Canada's Principles for First Nations relations.

SDG8 importance



Salmon farming contributes to rural jobs and local value

creation. According to the UN, fisheries and aquaculture is supporting the livelihoods of 12 percent of the world's population, and the market value of marine and coastal resources and industries accounts for about 5 percent of global GDP (FAO 2016). 60 million people are directly employed, with 140 million employed in the value chain.



Mechuque Island community training

Cermaq Chile supports social training in regions with limited work opportunities. In 2016, Cermaq Chile conducted community training on Mechuque island within the Archipelago of Chiloé, an island with a population of 1 090 habitants, where Cermaq has operations. Cermaq Chile funded a training course for 18 women to promote their skills in cut and confection of clothing as well as interior decoration, to promote self-employment. The women received 18 hours of theoretical training and 32 hours of practical training. The objective of Cermaq Chile's community training activities is to support the development of skills which may help the participants to find employment, improve small businesses or to change their field of work.

Principles for First Nation Relations, Cermaq Canada

To guide the development of respectful relationships and agreements with the Indigenous peoples in whose territory we operate or propose to operate, Cermaq has established a set of principles for First Nations Relations. The 10 principles include a recognition of traditional territories and respecting the diversity of cultures among First Nations, as well as a common commitment to sustainability.

Developing a mutually beneficial protocol agreement was the goal between the Ahousaht First Nation and Cermaq Canada. To achieve this goal, the Cermaq Canada Principles of First Nation relations were used to guide the agreement. The principles are available on www.cermaq.com



Responsible production

Our aim is to be a responsible salmon farmer with a small environmental footprint contributing to a sustainable blue economy.

Current practices in food production do not provide sufficient responses to properly address natural resource constraints or the growing demand for food, water and energy. A transformation of the global food system is needed, and the ocean will contribute to a larger share of our food production in the future. Farmed salmon is an efficient food source, providing a high content of healthy nutrients with a small ecological footprint compared with other animal proteins.

Transparency Customers and stakeholders can be confident that Cermaq is working actively to meet environmental requirements and operate in a socially responsible manner. To strengthen our environmental footprint, we work to optimize our value chain and identify, manage and monitor risks. We seek to build trust and improve our sustainability performance by adhering to the most advanced standards for sustainable food production and being transparent about our choices.

Performance A natural premise for sustainable growth is demonstrating our efforts for responsible farming through certifications and practices beyond compliance with laws and regulations. Aquaculture Stewardship Council (ASC) certification, BAP and Global G.A.P. are some of Cermaq's third party certifications which drive our commitment to continuous improvement. All our







certifications are approved and third party audited by certification bodies we work with including DNV GL, KPMG and Bureau Veritas. Examples of other standards where Cermaq can supply certified products include the Aboriginal Principles for Sustainable Aquaculture (APSA) certification in Canada, Halal certification in Chile and Kosher certification in Chile and Norway. Cermaq has a goal to achieve ASC certification on all our sites by 2020.

Partnerships To address the challenges in our global food system, Cermaq has become a member of the FReSH program, initiated by EAT and the World Business Council on Sustainable Development (WBCSD). Our goal of advancing the role of sustainably produced seafood in the global food supply is a key element in this work.

SDG12 importance



Farmed salmon is an efficient food source, providing a high content of healthy nutrients with a small ecological footprint compared with other animal proteins. High energy and protein retention, high edible yield and a relatively small carbon and freshwater footprint makes sustainably farmed salmon a responsible food choice.

Aquaculture Stewardship Council (ASC) certification

Cermaq has ASC certified sites in all production regions, and was the first Company that obtained ASC-certification in Chile. The standard includes more than 150 indicators related to seven principles:

- 1. Comply with all applicable national laws and local regulations
- 2. Conserve natural habitat, biodiversity and ecosystem function
- 3. Protect the health and genetic integrity of wild populations
- 4. Use resources in an efficient and responsible manner
- 5. Manage disease and parasites in an environmentally responsible manner
- 6. Develop and operate farms in a socially responsible manner
- 7. Be a good neighbor and conscientious citizen



FReSH program

Cermaq is a partner in FReSH (Food Reform for Sustainability and Health program), which is an EAT and World Business Council on Sustainable Development (WBCSD) initiative. Launched in 2017, FReSH is designed to accelerate transformational change in global food systems, to reach healthy, enjoyable diets for all, that are produced responsibly within planetary boundaries. Participants include Arla, Cermaq, Danone, Google, Kellogg's, Nestlé, Unilever and Yara.

FReSH

Climate action

Farmed salmon is a climate friendly food source, providing a solution to the world's food needs in the coming years.

The production of food is a major part of our climate challenge and contributes to a significant amount of global greenhouse gas emissions. Emissions from food production and impacts of climate change on agriculture and the food system will deeply affect the way we produce food in the future. Currently only 2 percent of our food consumption comes from the sea. But sustainable aquaculture will need to play a larger part to respond to climate change and to reach the UN Sustainable Development Goals.

Growing sustainably is Cermaq's long term strategy. This involves adapting to climate change and increasing resilience while, at the same time, playing a natural part in the low carbon future by providing climate friendly food to our customers.

Transparency We communicate our energy use and emissions in our annual report and conduct annual reporting to the Carbon Disclosure Project (CDP), describing our strategy and initiatives, targets, risks and opportunities. In addition, our ASC certified farms provide climate accounting at a farm level.

Performance Growing sustainably means that we need to farm our fish within the environmental boundaries of the ecosystems in which we operate, build resilience to climate change and anticipate developments in environmental conditions. Our fish is directly affected by climate risks such as rising sea water temperatures, algae blooms, ocean acidification and extreme weather events. We therefore engage heavily in research and development initiatives e.g. working together with partners in the development of closed cage solutions, environmental monitoring, and vaccine development. Efficient energy use is important to Cermaq and we are taking steps to lower emissions on our sites. Initiatives include connecting to land based electricity from hydropower on sea water sites in Norway, implementing low emission solutions on hatcheries, implementation of a carbon and energy management program in Canada and use of renewable energy on sites in Chile. In line with global climate agreements, we are working to reduce our emissions by setting a science based emission target.

Partnerships A large part of emissions from salmon production is in the supply chain, through the feed production and in transportation to markets. Cermaq is working with feed suppliers to encourage climate friendly feed solutions, and engage with partners in the Global Salmon Initiative (GSI) to encourage the production of oils rich in marine omega-3 from novel sources to build resilience. Increasing filletation instead of transporting whole fish is one way to reduce transport emissions as well as encouraging low carbon solutions in our supply chain.

SDG13 importance



Being at the forefront of sustainable aquaculture, salmon farming has the potential to drive innovation in climate friendly seafood going forward. The production of food accounts for a significant part of global greenhouse gas emissions. Farmed salmon has a small carbon and water footprint compared to other sources of protein, and can contribute to a solution to the climate challenge.

Carbon and Energy Management Program, Cermaq Canada

Cermaq Canada has developed a Carbon and Energy Management Program (CEMP) for its entire operation in alignment with the ISO50001 Energy Management Standard. The main objectives are to reduce GHG emissions and energy use, enhance social license to operate, and lower operating cost.

The plan includes a company wide target of 5% of emission reductions in 2018 based on a 2014 baseline, the program has identified KPIs and assigned a dedicated Energy Team to drive progress on specific activities. The program also uses an energy tracking tool, where energy consumption and emissions is recorded for tons of fish biomass produced by year, facilities, group of fish, growth stage and feed consumption, to enable measurement of progress.

Replacing diesel with hydropower, Cermaq Norway

Many salmon farming sites are located in remote areas, depending on diesel generators for their power supply. In Cermaq Norway, a project is ongoing to implement hydropower electrification on farms with proximity to the shore and access to power connection. In 2017, five farming sites will be connected to the grid, leading to an estimated decrease in CO_2 emissions by 1.158 tons annually.

Of the five sites, one is located in Nordland, the Oksøya farm, and four are located in Norway's northernmost county, Finnmark: the Ytre Koven, Skinnstakkvika, Kråkevik and Slettnes farms.

Cermaq's material topics

The table below provides a summary of each of Cermaq's five focus areas with material topics, their importance to each corresponding SDG and indicators that we report on. Our performance is available on www.cermaq.com

	Healthy and nutritious food	Thriving oceans	People leadership	Responsible production	Climate action
Material topic	 Product quality Fish health and welfare Feed ingredients 	 Biodiversity Biosecurity Blue economy 	 Safety and workspace Community relations Human rights 	 Value chain approach Certifications Beyond compliance 	AdaptationEmissionsInnovation
Importance for SDGs and Cermaq	In a growing world pop- ulation with challenges related to obesity and hunger, farmed salmon may provide a solution to the growing demand for protein and ensure healthy diets. Farmed salmon is rich in nutri- ents such as omega-3, proteins, vitamins and minerals, and is a healthy food choice. Healthy fish is a ne- cessity in all fish farming operations of crucial importance to Cermaq in delivering a high quality product. A healthy fish given nutritious feed increases the quality of the salmon.	The salmon farming industry is more techno- logically advanced than most other fish farming practices. Our industry may offer knowledge and technology transfer to other parts of aquacul- ture to enhance and en- courage a sustainable use of the ocean in the rise of the blue economy. As a salmon farming company, Cermaq de- pends on healthy oceans to produce sustainable salmon, both through our operations and through our feed supply. Sustain- able farming is at the core of our operations.	Salmon farming contrib- utes to rural jobs and local value creation. According to the UN, fisheries and aquaculture is supporting the livelihoods of 12 per- cent of the world's pop- ulation and contributes to about five percent of global GDP (FAO 2016). Cermaq relies on motivated employees and a good dialogue with local communities. We seek to contribute to local value creation in many ways: by providing jobs, purchasing from local businesses, supporting community initiatives, and providing education and learning opportunities.	Farmed salmon is an efficient food source, providing a high content of healthy nutrients with a small ecological footprint compared with other animal proteins. High energy and protein retention, high edible yield and a relatively small carbon and water foot- print makes sustainably farmed salmon a responsi- ble food choice. Efficient use of resources and responsible practices is a prerequisite for sustainable growth. Through advanced certifi- cations, Cermaq demon- strates high standards and build trust.	of sustainable aquaculture, Cermaq and the salmon farming has the potential to drive innovation in climate friendly seafood going forward. Cermaq and the industry engage
Material indicators (Cermaq specific and GRI)	 Raw material ingredient Customer health and safety assessment Fish mortality Medicine use Animal species and breed type Non-compliance with product health & safety Fines for product non-compliance 	 Feed sourcing and supplier assessment IUCN red list species with habitats in areas of operation Wildlife interaction Vaccination program Fish escapes Sea lice counts Area Management Agreements 	 Injuries, lost days, absence Senior management hired from local community Local community en- gagement programs Community complaints Non-compliance with societal regulations Incidents of violations involving indigenous peoples's rights Economic value gener- ated and distributed Country-by-country financial and organiza- tional data 	 Fallow time, benthic impact Water withdrawal and recycled input materials Non-compliance with environmental regula- tions Climate change risks and opportunities Whistle blowings Anti-corruption training Incidents of corruption ASC certification 	 Energy consumption GHG emissions (Scope 1, 2 and 3) Energy reduction initi- atives Financial implications, other risks and oppor- tunities due to climate change
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More details can be found in our sustainability report on www.cermaq.com

Value chain

Salmon farming follows the same life cycle that take place in the wild. Eggs are harvested from broodstock fish and are grown in fresh water to smolt size. Smolts are entered into sea water to grow to full size. Then they are carefully harvested and processed, and shipped to customers worldwide.



Research and innovation

When we solve a problem or overcome an obstacle, everyone benefits.

We encounter many challenges and opportunities as we deepen our knowledge in sustainable salmon farming, and as an industry leader it is our responsibility to take a proactive approach to meet these challenges. Our research focuses on fish health, farming technology, fish genetics and nutrition/feed to ensure that our salmon is strong and healthy and our operations are at the forefront of sustainable salmon farming.

Cermaq runs more than 50 research projects on an annual basis. We have our own R&D site in Colaco (region X) in Chile, in Bergen and in Finnmark, Norway. The projects are run by dedicated R&D teams, including six researchers in Cermaq's global R&D team who works closely with research personnel and operational experts in each of the operating companies. Our global team takes part in setting the overall research agenda for the industry through participation in industry research funds and national research organizations. Cermaq is a partner in two Centers of Research Based Innovation (SFI) established by the Research Council of Norway: CtrlAqua and EXPOSED. A main objective of these centers is to enhance innovation through long term research and close cooperation between research-intensive enterprises and prominent research groups. CtrlAqua focuses on research on closed containment systems, and EXPOSED explores opportunities for expansion into new areas currently unavailable for fish farming.

Some of our research

We are seeking innovative ways to use new technology to drive sustainability and efficient use of resources in our operations. Initiatives and research capabilities include:

- The concept iFarm is a sensor based technology which take an individualized approach to raising fish by using automatic image processing. This technology would give us comprehensive information about each individual salmon, while lowering fish stress through reduced handling.
- In Finnmark, Cermaq has four R&D licenses for the Arctic Salmon Research Centre for the period 2015-2020. The center does research on optimal feed for salmon farming in an Arctic environment, and is a cooperation between Cermaq, EWOS, NOFIMA, the University of Nordland, and the Norwegian University of Life Sciences.
- Cermaq's R&D Center in Colaco has offices, laboratory and net pens of semi-commercial size. The facility can be used for trials on fish feed, vaccines, non-pharmaceutical treatments, genetics and technology assessment.

Egg monitoring at Forsan hatchery in Nordland, Norway.

Key partnerships

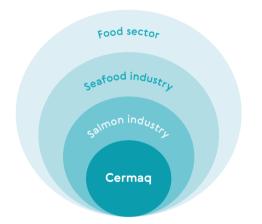
We want to make a positive difference – and through our local and global partnerships, we are working on key priorities in our five focus areas, and in particular SDG14.

Local communities, environmental organizations, labor unions and global initiatives such as the Global Salmon Initiative (GSI), UN Global Compact (UN GC) and World Business Council on Sustainable Development are all valuable partners helping us to get better – every day.

Below are some key partners and business initiatives Cermaq is engaged in. On our webpage you will find ongoing information on our stakeholder engagement and work in local communities.

Our approach to driving SDG progress in business

We work in four dimensions: to enhance the sustainability performance of our own operations; to improve industry performance together with the salmon industry (Global Salmon Initiative, GSI); to drive sustainability in the seafood industry (e.g. Seafood Business for Ocean Stewardship); and in the wider food sector (e.g. the FReSH program). In addition, we work at a global level through UN GC, and we are engaging in targeted initiatives to drive progress on SDG14: Life below water.



	Partners	Objective
Salmon industry	Global Salmon Initiative (GSI)	Cermaq is a founding member of GSI, which was established in 2013. GSI is an industry initiative aiming to find solutions to common sustainability challenges in the salmon industry. As of April 2017,
	85I)	it represents 12 companies accounting for 50% of global salmon production, and works actively to solve industry challenges on three areas: feed and nutrition, biosecurity and standardization. www.globalsalmoninitiative.org
Seafood industry	Seafood Business for Ocean Stewardship (SeaBOS)	Established in 2016 with eight of the world's largest seafood companies, SeaBOS is an initiative that connects the global seafood business to science, wild capture fisheries to aquaculture, and seafood companies worldwide. The ambition is to lead a global shift towards sustainable seafood production and a healthy ocean. www.keystonedialogues.earth
Food sector	FReSH program	Food Reform for Sustainability and Health (FReSH) is a joint program between EAT and the World Business Council on Sustainable Development (WBCSD), where Cermaq contributes in two work- streams (A: Healthy and sustainable diets; and B: Food production). Launched in January 2017, the program is designed to accelerate transformational change in global food systems.
	HKe)H	www.wbcsd.org/Projects/FReSH
Global	UN Global Compact	UN Global Compact is an initiative based on CEO commitments to implement universal sustain- ability principles and to take steps to support UN goals including the SDGs. Member companies
		work to align their strategies and operations with universal principles on human rights, labour, environment and anti-corruption, and take actions that advance societal goals. www.unglobalcompact.org

Our sustainable choice

We want to provide the world with healthy and sustainable food. To achieve this goal, we want to work in partnerships with those who share our vision to make a positive difference.

Photo – by Aksel I Design – neue.no Front page photo: Road to Cermaq farming sites in Skyring, Región de Magallanes, Patagonia, Chile. We must plant the sea and herd its animals using the sea as farmers instead of hunters. That is what civilization is all about – farming replacing hunting.

- Jacques-Yves Cousteau, Oceanographer

www.cermaq.com