

ANNUAL REPORT 2016

TECHNOLOGY FOR A BETTER SOCIETY

Research for transition and competitive competence



Digitisation and the so-called green transition are powerful drivers of change worldwide. Not only in the field of technology, but also in connection with business models, communication and the way in which enterprises are run.

These changes are having a major impact on SINTEF – mainly because, as a research institute, our aim is to consolidate competitive competence during a period in which value generation in new sectors needs a boost if we are to replace declining future revenues from the oil, gas and traditional energy sectors.

But we also have to restructure our own organisation. In order to be able to invest in new research, laboratories, systems and expertise that will put us in a position to adapt to new business models and digital competition, we must continue to take steps to ensure that SINTEF is well managed and that it generates results, both in terms of research and profitability.

Following a very difficult year in 2015, our financial results are showing some improvement, but the situation is still unsatisfactory. In 2016 we have implemented key measures to reduce costs and promote efficient operations, and this will continue in 2017.

A major event in 2016 was the launch of the new institute SINTEF Ocean, which has merged much of SINTEF's ocean space research activities into a single and powerful entity. I am convinced that this will help Norway to consolidate its position as a world leader in the fields of marine and maritime research. Our ambition for 2017 is to take similar steps with the aim of consolidating our research activities linked to the oil and gas and process industry sectors.

In terms of research, 2016 has been a good year. One of the highlights was the creation by the Research Council of Norway of eight new Centres for Environmentally-Friendly Energy (CEERs). SINTEF is participating in all eight centres. SINTEF continues to be the Norwegian organisation that performs best in competition for EU research funding. This applies not least to technologies most closely linked to digitisation.

We saw a significant increase in activity linked to the launch of new enterprises based on ideas generated at SINTEF, and we currently own a promising portfolio of high-tech spin-off companies.

2016 was my first year as President and CEO at SINTEF. I am proud to lead an organisation that boasts such a broad diversity of highly skilled specialists, whom I see as willing to embrace change and committed to delivering results. By combining this expertise across the organisation under the "One SINTEF" banner, we can be even stronger in promoting our vision of "Technology for a better society".

Alush Bah Cija

Alexandra Bech Gjørv

The front page shows Marianne Bakken (SINTEF) with a drone from the project "Mobile and autonomous sensor systems – Masens". (Photo: Werner Juvik)



The SINTEF year in brief – 2016

SINTEF is merging all its marine research activities into a single new institute called SINTEF Ocean AS. Our ambition is to strengthen our position as a world-leader in the fields of marine engineering, and biomarine research.

■ Norway and Singapore are signing ten research collaboration agreements in the presence of the countries' respective heads of state. SINTEF is contributing with expertise with the aim of building large floating constructions that will help to meet Singapore's development space requirements.

■ A team of Norwegian, French and Australian researchers is the first in the world to succeed in quantifying the effects of radiation on individual cancer cells. This means that radiation therapies can now be tailored to individual tumours and thus be more effective.

Secretary-General Ban Ki-moon awards a prestigious prize at UN headquarters in New York. The prize is awarded to SINTEF for leadership and innovative practice aimed at meeting current global energy challenges.

The Research Council of Norway granted approximately NOK 1.3 billion in funding for eight new Centres for Environmentally-Friendly Energy. NTNU and SINTEF are participating in all the centres that were granted funding.

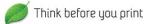
SINTEF is establishing offices in Mo i Rana and Ålesund, in close collaboration with industrial enterprises based in the two regions.

Trondheimsfjord has been selected as the world's first autonomous vessel test laboratory. SINTEF and NTNU are sponsoring the initiative, together with partners Kongsberg Gruppen, Trondheim Port Authority and Maritime Robotics.

Telenor, NTNU and SINTEF are setting up a research collaboration looking into digitisation. Part of this collaboration entails the establishment of an artificial intelligence and Big Data laboratory at NTNU.

The SINTEF-led project EcoGrid EU has been awarded the EU's Sustainable Energy Award. The prize was awarded for the establishment of a demonstration project for smart power grids on the Danish island of Bornholm.

The Norwegian Minister of Petroleum and Energy opens SINTEF's upgraded multiphase laboratory, which is the largest and most advanced of its kind in the world.





Board of Directors' Report for 2016

SINTEF is a universally beneficial research institute, organised in the form of a foundation with subsidiary companies. SINTEF utilises its outstanding solution-oriented research and knowledge production to generate significant value for its Norwegian and overseas clients, the public sector, and society as a whole. Our vision is "Technology for a better society".

SINTEF performs very well in competition for funding from the EU and the Research Council of Norway. This demonstrates that we are in the forefront of international research, which is essential if we are to realise our vision and promote development and value generation for our clients.

SINTEF has its head office in Trondheim and conducts most of its activities in Trondheim and Oslo. SINTEF has operational centres in several locations in Norway under the umbrella of the SINTEF Foundation and its subsidiary companies. We are committed to working closely with industry, and during 2016 have established offices in Mo i Rana and Ålesund.

SINTEF has established a partnership, and a close strategic and collaborative relationship with the Norwegian University of Science and Technology (NTNU) in Trondheim. SINTEF also has close working relationships with the University of Oslo and a number of other Norwegian and overseas research institutes. These partnerships contribute to SINTEF's high levels of technical quality and strong international profile.

Substantial earnings over several years have enabled SINTEF to make investments in laboratories, scientific equipment and research premises, as well as in self-financed technical projects in high-priority research areas. SINTEF aims to deliver a sound financial profit that reflects the value it generates, enabling it to make necessary future investments. In recent years SINTEF has experienced profitability pressures, and since 2014 we have taken major steps to safeguard operations.

Alexandra Bech Gjørv was appointed as SINTEF's new CEO on 1 January 2016. The year continued to be challenging time for both the oil and gas sector and the shipping industry. The onshore industries exhibited positive growth, and there were high levels of activity in the fisheries and aquaculture, and construction sectors. Following a very difficult year in 2015, there has been some improvement in financial results for the SINTEF Foundation and the SINTEF Group, but these remain unsatisfactory. In 2016, steps such as redundancies, the more efficient use of building premises, and other cost reducing measures have been implemented in some parts of the organisation. Moreover, we have launched a process of organisational restructuring and realignment. One major change that has helped towards the improvement of our financial results has been the introduction of new pension arrangements, which have resulted in considerable cost reductions and greater financial stability.

Strategy and our role in society

SINTEF's role is to contribute to the development of society by means of contract research projects and innovation. Our main aim is to be a world-leading research institute which, together with our clients in the private and public sectors, generates value and develops solutions to some of the great challenges facing society today. Our overall strategy document sets out five joint areas of focus in which Norwegian industrial and research expertise offer particular strengths. Much of the force inherent in these thematic areas of focus lies in the exploitation of radical new ideas, linked to enabling technologies, that interact with business-oriented innovation in fields where Norway has specific prerequisites for success.

The strategy focuses strongly on the concept of "One SINTEF", which entails a cross-disciplinary approach and our ability to make use of the best skills and expertise available across the entire SINTEF organisation as a means of safeguarding our role in society and meeting our clients' needs.

In spring 2016, the SINTEF Board decided to begin the process of consolidating all marine research at SINTEF into a single institute. This involved a merger of the institutes MARINTEK, SINTEF Fisheries and Aquaculture, and the Department of Environmental Technology at SINTEF Materials and Chemistry. The new institute, SINTEF Ocean, became operative on

1 January 2017. The Board intends that the institute will become an attractive business partner for all sectors operating in ocean space, and contribute towards making the entire scope of SINTEF's skills and expertise available to our clients in this field. This integration of expertise shall fuel our ambition to generate research-related, strategic, market- and cost-related synergies for SINTEF's future activities in ocean space.

Technology for a better society

By means of our high technical standards, combined with the excellent efforts of our employees, SINTEF continues to generate results for its clients and society at large, helping towards achieving our vision of "Technology for a Better Society". The following are some examples of our activities in 2016.

In the construction sector, digital tools, systems and processes all combine to promote better collaboration and shorter construction times. SamBim is a research project that addresses interaction during the construction process. It demonstrates that better planning and collaboration among technical disciplines prior to the commencement of construction, combined with digital aids such as 3Dmodelling and Building Information Modelling (BIM), make the construction process both more efficient and less expensive. Together with organisations such as Skanska, Fafo, Statsbygg, Link arkitektur and Multiconsult, both NTNU and SINTEF have participated in projects that, among other things, have utilised the new Urbygget on the campus of the Norwegian University of Life Sciences (NMBU) as a case study. This project introduced BIM kiosks to the construction site, enabling both designers and craftsmen to follow the construction process digitally. It has demonstrated that we can make considerable savings by getting construction right first time, and that the sector can increase its competitiveness by utilising digital aids such as BIMs, 3D models and sensor technologies.

SINTEF's traffic researchers are working to bring know-how from neuroscience to studies of people's behaviour and performance in traffic. Key topics in this research include risk willingness, learning, and child and adolescent development and performance capability. The way children cycle in traffic requires more than just keeping their balance. Children have to observe and interpret what the traffic is doing, make decisions and take action – all within variable frameworks of time and distance. There is a constant interaction between a child's neurobiology and the surroundings he or she inhabits. A child's brain is in a constant state of change, involving the gradual development of many functions such as attention control. SINTEF has been heading a project that aims to find out how proficient children are at consciously adhering to a plan and focusing their attention. The results will give us indications as to what cycling instruction in schools should focus on, and provide us with new knowledge about when it is safe for children to start cycling independently in traffic. The project was funded by Trygg Trafikk, the Sør-Trondelag county traffic safety board, Trondheim municipality's "Green Initiatives Package" and Bodø municipality.

All forms of energy production have an impact on the natural environment. The question is how, and by how much? The research centre CEDREN, headed by SINTEF, employs both biologists and technologists, and has developed an approach called "environmental design". The method facilitates the co-existence of energy production with healthy populations of salmon and other wildlife in rivers close to hydropower plants. In short, the approach enables the assessment, development and implementation of measures that enhance the living conditions of salmon and other wildlife in the river, while minimising consequent losses in power production. CEDREN is one of the Centres for Environmentally-Friendly Energy (CEERs), established and funded by the Research Council of Norway.

In spring 2016, the world's first industrial-scale experiment involving the three-phase transport of oil, water and gas in the same pipeline was carried out in the 'big loop' at SINTEF's Multiphase Laboratory. Technology developments such as this can contribute to major wealth generation. Reliable predictions of pressure drop are crucial to the optimal design of long, wet gas pipelines. Existing models are not equipped to describe the complexities of three-phase flow in pipelines. A campaign of experiments was carried out to study pressure drop at high gas flow rates in the presence of small fluid volumes while varying the volumes of water and oil. The experiments demonstrated a strong and complex relationship between pressure drop and water content. Measurement of these phenomena has provided the industry with important new knowledge, and new experiments are planned to examine this in detail.

A team of Norwegian, French and Australian researchers is the first in the world to succeed in quantifying the effects of radiation on individual cancer cells. This means that radiation therapies can now be tailored to individual tumours and thus be more effective. The recently developed sensor is the first of its kind and can measure radiation doses at the level of the individual cell. It enables doctors to obtain a picture of how much damage each cell has incurred following treatment. The very first sensor prototype saw the light of day at SINTEF's microsystems and nanotechnology lab (MiNaLab) following a major multinational project involving researchers in the field of medical radiation physics.

The spread of antibiotic resistance among pathogenic bacteria is a growing global threat to human health. New technology is essential if we are to counteract this trend and guarantee effective treatment of life-threatening infections in the future. In 2016, SINTEF Biotechnology and Nanomedicine launched a research project called INBio-Pharm, which is one of six projects linked to the Research Council of Norway's new biotechnology programme called "Digital Life". The INBioPharm project links key infrastructure platforms with leading Norwegian expertise in the fields of system biology and marine bio-prospecting at SINTEF and NTNU. The new technology platform will make it possible to discover new naturally-occurring antibiotic

substances more quickly, and thus enable new medicines to reach their markets faster.

In 2016, Norway took the initiative in the global race towards the development of autonomous (unmanned) vessels. Autonomous vessels can reduce emissions from shipping by up to 50 per cent and make considerable improvements to transport systems. In September, Trondheimsfjord became a centre for the testing of such vessels, and the fjord will be used as a laboratory for revolutionary new concepts. This is a global-scale pioneering project and the result of a research collaboration between NTNU, Kongsberg Seatex, Maritime Robotics and SINTEF. October also saw the establishment of the Norwegian Forum for Autonomous Ships (NFAS), which represents the establishment of a full-scale marine laboratory as well as a Norwegian collaborative project in the field of autonomous shipping technology.

In December 2016, based on its past and present achievements, SINTEF was awarded a prize by the UN Secretary-General for "leadership and innovative practice aimed at meeting current global energy challenges". The prize was awarded by Secretary-General Ban Ki-moon at UN headquarters in New York, following an international competition involving 157 nominees under the umbrella "sustainable transport". The first prize is a grant of USD 1 million to be used towards an activity designed to enhance he sustainability of global energy consumption. Specifically, the UN chose to award the prize to a joint Norwegian-Tunisian project application submitted by SINTEF and its partners in Tunisia. SINTEF will use the prize money to head a threeyear project in Tunisia, together with partners from Tunisia and Hungary. The aim is to rebuild a traditional Tunisian coastal vessel and transform it into a green demonstration vessel by using a batterypowered electric engine. This initiative will enable the construction of a solar panel farm close to the vessel's home port. Power from the solar panels will be used to charge the vessel with green electricity.

Commercialisation

At the close of 2016, SINTEF TTO had 15 companies in its portfolio, and during the course of the year invested a total of NOK 28 million via the SINTEF Venture fund. One of the funding recipients is a company called SpinChip Diagnostics, which is currently developing a device that analyses blood samples more quickly and more accurately than is currently possible at health clinics and by hospital laboratories. Rapid diagnosis ensures that critical treatment of serious conditions can be commenced more quickly. Instead of waiting for hours or days for an answer from a distant, centralised, laboratory, SpinChip Diagnostics' innovative tool will ensure that samples can be analysed at the treatment location, which may be a local health clinic, hospital ward or accident and emergency clinic. The device looks like a coffee capsule machine, and is just as easy to use. All you need is a sample from a pricked finger. The capsule containing the sample is then inserted into the device and the answer will appear in a matter of minutes. Initially, the company is focusing on an analysis method that provides more rapid answers in the case of a heart attack, which is a condition with diffuse symptoms but where rapid treatment can be decisive.

Health, Safety and the Environment

At SINTEF, HSE issues are assigned the highest priority and the safety

of our employees takes precedence over all other considerations. Our responsibility for our employees' safety and working environment is taken very seriously. Effective collaboration between employees and management is essential for promoting a sound and health-promoting working environment.

HSE issues have a prominent place in SINTEF's principal strategy, and we operate with four main aims in connection with our HSE-related work:

- SINTEF shall have a sound and health-promoting working environment.
- SINTEF shall achieve zero occupational sickness absence
- SINTEF shall incur zero levels of accident, injury, damage and loss
- SINTEF shall operate with a clear environmental profile

Work carried out to achieve improvements within the institutes is documented in SINTEF's annual HSE report and in local action plans.

The safety campaign "Bry deg" (Show You Care), which has been a major area of focus during 2015 and 2016, was completed during the first quarter of 2016. A total of 1600 employees took part together with more than 95 per cent of managers in a total of 69 meetings. The safety campaign contributed towards excellent progress in the field of safety, as revealed in SINTEF's working environment survey. The organisation has worked to follow up those areas for improvement and initiatives that emerged from the campaign meetings. The key lessons learned from the campaign have been summarised and presented to SINTEF's management and employees.

In 2016, a total of 32 incidents were recorded resulting in personal injury. Five of these involved subsequent sickness absence. During the autumn, a project was launched to obtain a better assessment of the causes of accidents and near misses that had been recorded during the year. The analysis revealed fewer personal injuries compared with 2015, but a much higher number than in 2014. There was a small increase in injuries requiring medical treatment, while injuries resulting in sickness absence and those requiring first aid showed a small decline. There are still too many injuries in the context of our zero-injury target.

In 2016, in the light of our goal to direct greater focus on serious incidents, SINTEF drew up a new procedure for experience sharing, called the "HSE one-pager". The idea is to provide a one-page presentation containing a brief description of the incident in question, focusing on the causes of, and lessons learned from, the incident. An "HSE one-pager" can be used at Group management meetings, institute management meetings and in other fora. During 2016, a total of 11 "HSE one-pagers" were presented to Group Management, all of which were made available to SINTEF's employees.

SINTEF's reporting and non-conformance system (Synergi) makes it possible for line managers and other relevant personnel to follow up incident reports. In order to enhance our safety culture, we rely on incidents being reported and followed up locally. Group Management is monitoring developments closely, and positive trends are emerging in the handling and subsequent closing of specific cases. In 2016 Synergi was expanded with a new function in the form of a root cause module enabling the analysis of causal factors. The Synergi app was introduced in April with the aim of encouraging higher levels of notification during fieldwork projects and business travel. To date however, no assessment has been made as to



whether this has resulted in a higher number of notifications from fieldwork sites and business travel.

In 2016, 510 HSE-related notifications were entered in the Synergi system, of which 40 were via the Synergi app. Of these, 418 were notifications of hazardous situations or observations, 50 involved near-misses, and 42 were actual accidents. Thirty-two of the incidents and observations were judged to constitute potential risks in critical areas. Approximately 60 per cent of the notifications came from laboratories and workshops, with 20 per cent from office and communal areas.

The incidents demonstrate that we must continue to assign high priority to work towards reducing occupational injuries. In 2016, the indices H1 (injuries resulting in sick leave) and H2 (personal injury frequency) were 1.4 and 4.8 respectively, compared with 1.9 and 4.3 in 2015.

The responsibility for ensuring that employees complete their HSE training rests with line managers, with support from HSE and HR personnel. In 2015 we introduced in-house mandatory training requirements, and during 2016 we have been working to close any training gaps. Some institutes have progressed further than others and have achieved high levels of implementation in relation to the HSE platform, combined with effective HSE risk assessment methods.

In 2016 an audit of a mandatory HSE-related e-learning course in laboratories and workshops was completed, and the course will be made available during the first guarter of 2017. Classroom training is arranged by the SINTEF School in collaboration with NTNU and the student welfare organisation in Trondheim. Mandatory training is also carried out locally within the institutes.

The use of chemicals is an important aspect of SINTEF's research activities, and effective procedures are essential to prevent personal injury and unwanted health consequences. In 2016, work has been carried out to develop a risk-based method for the selection of employees for health examinations, and this has helped towards developing a system that will meet the requirements for the establishment of an exposure register. The Norwegian Labour Inspection Authority has given SINTEF a positive assessment of the proposed system.

SINTEF's sickness absence rate stands at 3.7, which is still a little higher than our 3.5 per cent target. Occupational sickness absence was recorded at 0.3 per cent. SINTEF is an "Inclusive Working Life" (IA) enterprise and sickness-related absences are systematically followed up by the relevant institutes. Line managers, supported by HR personnel, are jointly responsible for the follow-up of sickness absences.

The arrangement with each SINTEF Foundation institute's WEC was established in 2015 and evaluated in 2016. The aim of this arrangement is to ensure that the WEC's statutory activities are carried out at local level, close to the personnel that are directly affected. The evaluation revealed that the arrangement was off to a good start and that the formalities are in place. The idea behind areas for improvement is to stimulate more discussion during meetings and consolidate role awareness and expertise linked to the tasks of the WEC. In 2017 work will be carried out to implement training for WEC members.

In 2016 it was decided that SINTEF should seek certification in compliance with the following three standards; Environmental Management Systems (ISO 14001:2015), Quality Management Systems (ISO 9001:2015) and Working Environment Management Systems (OHSAS 18001:2007). The preparations for certification have been ongoing during the second half of 2016. The first certification audit was completed in December 2016, and the certificates received in February 2017. Certification provides an important boost to the organisation in an increasingly demanding and competitive market. Certification of the entire organisation consolidates SINTEF's status as an integrated enterprise with a joint management system, providing high quality services to its clients.

Financial independence

In 2016 SINTEF reported an ordinary operating profit of NOK 80 million, compared with NOK 52 million in 2015 (prior to phasing out the pension scheme). The pre-tax profit was NOK 97 million, compared with NOK 60 million in 2015.

There was a decline in net operating revenues in 2016 of 2.8 per cent, compared with growth of 4.3 per cent in 2015. In 2015, sales of assets in the companies GasSecure and Resman generated one-off revenues of NOK 93 million.

The market has been challenging throughout the year, especially in the oil and gas sector. We continue to focus strongly on sales efforts, cost reductions and other measures designed to secure profitability in the markets where we operate. Cost reduction measures implemented in 2015 resulted in a total annual effect of NOK 230 million for the year from 2016, and a further NOK 70 million in 2016 for the year from 2017. At the start of 2017 all institutes have healthy project order books. This is the result of proactive sales efforts combined with many significant resource adaptations carried out in recent years.

At the close of 2016, our liquidity situation continues to be sound, but was observed to weaken in the latter half of the year, and is now the subject of close monitoring. SINTEF has established a joint arrangement within the Group for the investment of its liquidity reserves. The portfolio is invested in accordance with SINTEF's "Rules governing internal financial management", dated October 2016. In 2016, on average, NOK 292 million has been expended on administration, compared with NOK 313 million in 2015. Our low-risk profile contributed to a positive yield of 0.22 per cent in 2016, compared with 8.4 and 6.6 per cent in 2015 and 2014, respectively.

SINTEF is exposed to currency exchange fluctuations in that some of its project revenues are in foreign currencies, although project costs are entirely or largely in Norwegian kroner. Futures contracts are employed to reduce this risk. We have specifically evaluated the potential risk and our freedom of action in the event of serious collapse of the Eurozone.

During both 2014 and 2015 we experienced a significant weakening of the Norwegian kroner in the foreign exchange markets. This has made both 2015 and 2016 challenging years in relation to EU revenues based on contracts entered into in 2012 and 2013. The value of revenues from completed work is prepared based on exchange rates projected at the projects' reporting milestones.



It is essential that SINTEF succeeds in creating a financial surplus which can be invested in new research and skills development. In 2016, SINTEF invested NOK 100.2 million in laboratories, scientific equipment and other business assets. The corresponding amount in 2015 was 156.5 million.

SINTEF currently enjoys a robust financial position. As of 31 December 2016 SINTEF holds an equity of NOK 2,178 million (2,126 million), which represents 60 per cent (58) of its total equity. The corresponding figures for the SINTEF Foundation are NOK 1,929 million (NOK 1,875), which constitutes 66 per cent (65) of its total equity.

The annual profit for the SINTEF Foundation in 2016 was NOK 57 million, compared with a loss of NOK 207 million in 2015. This is allocated in its entirety to "other equity".

Our equity and operational status, combined with our cost-saving initiatives and a satisfactory order book, provide us with a good basis for declaring the organisation a going concern. The Boards of the subsidiary companies have made similar assessments, and all have concluded that we have the basis of a going concern. The Board is not aware of any circumstances that have arisen since the close of the accounting year which affect its opinion regarding the financial position of either the Foundation or the Group. On this basis the Annual Accounts have been prepared under the going concern assumption.

Clients

SINTEF creates opportunities for our private and public sector clients and contributes to their wealth generation. We also promote the healthy development of society as a whole. This is one of our most important contributions to the community at large.

In 2016, SINTEF completed 5,722 projects for a total of 3,954 clients of all sizes. Projects were carried out for both private and public sector clients in fields including renewable energy, oil and gas, the marine and industrial sectors, building and infrastructure, as well as enabling technologies, health and welfare and social science research.

A significant number of projects are carried out involving crossdisciplinary collaboration among the various SINTEF institutes. Broad, cross-disciplinary approaches provide unique opportunities for the development of effective solutions. A multidisciplinary focus is essential as a basis for delivering solutions to meet the great and complex challenges currently facing society, especially in connection with digitisation, health and welfare issues, and the so-called "green transition".

SINTEF's participation in the major, long-term, research centres also entails extensive involvement among our Norwegian and overseas clients. SINTEF is currently participating in nine Centres for Research-Based Innovation (SFIs) and 14 Centres for Environmentally-Friendly Energy Research (CEERs). Taken together, these activities involve the participation of just over 200 industrial enterprises. Participation in these centres provides these companies with long-term knowledge development at the forefront of international research, and contributes towards consolidating their networks and boosting their competitiveness. Our relationships with our clients and understanding of their needs are of crucial importance. The process of enabling effective dialogue with clients in an atmosphere of trust at all organisational levels is high on Group Management's list of priorities. This also involves increased levels of dialogue with the public authorities, primarily in Norway, but also in the EU and other countries. In 2016, SINTEF attended a series of high-level meetings with many international companies, public authorities and institutions.

Under the banner "Technologies that change working life", SINTEF'S CEO was one of the keynote speakers at the Annual Conference of the Federation of Norwegian Enterprise (NHO) on 7 January 2016. The presentation was based on a report that SINTEF had prepared for the conference containing scientific contributions from many of the SINTEF institutes. Since this conference, representatives from SINTEF's Group Management have attended most of the NHO's regional annual conferences with the dual aim of meeting the Norwegian business community and presenting the importance of new key technologies to Norwegian working life and commercial competitiveness. These fora have provided excellent opportunities for active dialogue on these issues throughout the country.

Contact between research scientists and their clients is important for the development and implementation of high-quality projects. Project management, effective implementation competence and teamwork are essential for effective project work. SINTEFs Group Management focuses strongly on project quality, and will boost its efforts in this area during 2017.

The company SINTEF TTO commercialises research results by facilitating the launch and development of new companies, patenting processes and the licensing of technology. In 2016 seven commercialisations were implemented in the form of three licensing agreements and start-up of the following companies:

- ChemFree has developed a new system for the chemical-free and environmentally sound dispersal of marine oil spills.
- Array-on-a-dime produces a microphone that dramatically improves speech recognition technology installed in devices such as mobile phones.
- BrainImage enables the more sensitive removal of brain tumours during surgery leading to better results by using a new and improved contrast fluid that is injected into the body prior to the operation.
- Zivid Labs has developed a new 3D camera that improves robotic vision in industries varying from furniture to car manufacture.

At the close of 2016, SINTEF TTO had 15 companies in its portfolio, and during the course of the year invested a total of NOK 28 million via the SINTEF Venture fund. In total in 2016, SINTEF TTO has contributed to the purchase of R&D services at SINTEF to the value of NOK 95 million. This has enabled the start-up companies to be supplied with the specialised technological skills and expertise that are essential for their success in global markets.

Research

The work to promote SINTEF's profile as a research centre continued during 2016. It is essential that SINTEF maintains an effective balance between academic publication and contract research projects. The most important demonstration of our research results occurs when new technologies and systems are finally made use of by our clients

and society at large. However, publication in the international arena is also assigned high priority, and the Board underlines the importance of SINTEF being actively involved in and contributing to its own skills development and the global advance of new knowledge by means of publication. Publication promotes the profile and enhancement of scientific quality. Our aim is to publish at least one peer-reviewed scientific publication per research scientist per year. In 2016 the figure was 0.71 publications per research scientist per year, compared with 0.69 in 2015.

SINTEF's size and international standing is significant for the effective exploitation of research funding in Norway. This is clearly expressed in connection with the EU's research programmes, where SINTEF is by far the largest Norwegian player. Participation in the EU's Framework Programmes is key to enhancing the quality of SINTEF's scientific output, enabling it to remain in the forefront of international research in fields such as ICT, biotechnology, energy, nanotechnology and materials science.

Investment in laboratory facilities is crucial if Norway is to continue to develop as a country where know-how is produced, boost its global competitiveness and attract the best students and research scientists. Since 2007 SINTEF has invested more than NOK 1 billion in laboratories, scientific equipment and buildings.

In December 2016 the Norwegian Ministry of Trade, Industry and Fisheries announced a concept selection study (KVU) linked to alternative models for a future knowledge centre for ocean space technologies - the Ocean Space Centre. The comprehensive report prepared by external experts concluded that the creation of such a centre would be beneficial in a socio-economic context, and endorsed the concept recommended by SINTEF and NTNU. This is an important step towards realisation of the concept, and it is also very positive to see that the government supports completion of the Ocean Space Centre as part of its new ocean strategy.

Strategic collaboration with universities and other research institutes is vital if we are to maintain a robust national research arena. The strategic collaboration between NTNU and SINTEF is of considerable importance. It contributes towards keeping SINTEF's applied research in the international academic forefront, while enabling NTNU to carry on extensive research directed at finding specific solutions to issues facing businesses and society.

In 2016 the respective Boards at NTNU and SINTEF adopted a plan for the intensification of this collaboration by means of the "Better together" project. Third party analyses of the project demonstrate that our 66-year collaboration has been highly significant for Norwegian research and innovation. It has also highlighted the need to define and be aware of the differences in roles and terms of reference between the universities and research institutes, and to boost incentives that promote collaboration and effective work demarcation.

SINTEF is an active participant in international research projects. There has been much focus on our involvement in the European Energy Research Alliance (EERA), which has an important strategic role in the field of European energy research. Together with NTNU, we are engaged in a strategic collaboration with leading research centres in Japan and the USA in the fields of energy and materials science.

Priority is assigned to the SINTEF Group's main areas of focus -

typically involving three-year cross-disciplinary research projects in fields that are of special importance to SINTEF. The following areas of Group focus were initiated in 2013 and will be completed at the start of 2017: bio-based products from sustainable resources, ManagelT, SEATONOMY and Welfare technologies. In total, SINTEF has invested NOK 180 million in twelve Group areas of focus since 2006.

In 2015, the Research Council of Norway established a number of new centres for research-based innovation (SFIs), all of which became operative during 2016. The SFIs support innovation in the form of significant investments in long-term research projects involving close collaboration between industrial enterprises with active R&D programmes and the leading research centres. SINTEF is involved in nine of the new centres, and has been assigned the role of coordinator for four of them. The centres in which SINTEF is participating involve the fields of exposed aquaculture operations, climate change adaptation, smart maritime technologies, fabrication, advanced materials, advanced ultrasound, the process industry and maritime operations.

In May 2016 the Norwegian Ministry of Petroleum and Energy granted approximately NOK 1.3 billion in support of eight new Centres for Environmentally-Friendly Energy (CEERs). Both SINTEF and NTNU are participating in all of the eight new centres, and SINTEF is acting as coordinator for three of them. Support payments will be made for up to eight years and will trigger equally large amounts from the business and industrial sector, as well as R&D partners.

In total, SINTEF is currently participating in 14 CEERs, and is coordinator for six of them. A summary report completed in August 2015 revealed that six of the CEERs that NTNU and SINTEF were then participating in had triggered as much as NOK 950 million in investment in research from business sources. This investment resulted in more than 200 registered innovations, including technology licences and start-ups derived from CEERs in which NTNU and SINTEF are currently participating.

It is positive that national research strategies such as the Energi21, Hav21 and OG21 programmes linked to a series of industrial sectors are being put in place. Joint research strategy platforms involving both industry and the public authorities are of great importance to both technical quality and innovative competence. SINTEF has assigned high priority to its participation in these processes. It is pleasing to see that the government has also indicated that it will be launching work to develop a similar strategy (Digital21) for digitisation.

In February 2016 an international panel of experts published an assessment of Norway's techno-industrial research institutes. The assessment concluded that the institutes play an essential role in the Norwegian innovation system and that direct and indirect economic spin-offs are of key importance to Norway, as well as Norwegian businesses and public sector organisations. SINTEF is highlighted as a well-run organisation with a strong management team and highly skilled employees, enjoying a particularly strong status in the EU's research programmes.

The social science research institutes were also assessed by an international panel of experts in 2016. SINTEF Technology and Society received a positive assessment, and is described as an institute that can demonstrate a significant impact on the shaping of domestic policy initiatives, health services and business development. The



assessment recommends that SINTEF should place strong emphasis on exploiting the full potential of the "One SINTEF" concept, and combine this in an effective collaboration between itself and NTNU.

People

SINTEF's aim is to be an attractive workplace offering unique development opportunities for people with knowledge and enthusiasm. Whether or not SINTEF is viewed as such is monitored by means of our working environment survey conducted every second year.

The survey was carried out in January 2016, with a response rate of 93 per cent. The results of the survey confirm that overall, SINTEF is a good place at which to work, although some need for improvement was also identified. These challenges are being looked into, and work is being carried out to utilise the results as a basis for future improvements. Follow-up measures were implemented during 2016 according to plan.

The role of management is vital in this context. SINTEF is working systematically to develop its management resources, with a focus on individual managers and team spirit. It is important to boost the quality of our middle management. We are placing increasing emphasis on the development of managers responsible for major, complex projects and on enhancing their aptitude for efficient teamwork across the scientific and organisational disciplines. This is essential if we are to address the major challenges of our times.

SINTEF continues to be successful in competition for skilled employees in the global market. We place great emphasis on taking care of and fostering the development of our current staff, while at the same time working to safeguard future recruitment by means of brand development and promotional activities in the domestic and global markets. SINTEF's ranking has improved in the list of attractive workplaces compiled on the basis of student surveys. Results from the major Universum survey reveals that we are currently third on the list of Norway's most attractive places to work among technology students.

2016 was the year in which SINTEF focused on safeguarding its operations in challenging economic times, while simultaneously exploiting its growth potential. Staff reductions were carried out in some of the research groups in order to adapt capacity to reduced activity in certain markets, most notably in the oil and gas sector.

As of 31 December 2016, SINTEF had a total of 1,960 employees. Of these, 1,154 were employed by the SINTEF Foundation. In 2016 SINTEF had a staff turnover of 6.8 per cent, and exhibited a turnover of 6 per cent within the group defined as "scientific personnel". Employees leaving SINTEF represent an important contribution to skills development in industry and the public sector.

Fifty-five per cent of our researchers have doctorate degrees, compared with 44 per cent in 2009. In 2016, 432 of our employees (22 per cent) hailed from a total of 74 countries outside Norway. This shows that SINTEF is attractive to international research scientists and that we are successful in bringing highly qualified researchers to Norway. SINTEF's overseas employees provide a valuable source of scientific and cultural expertise. The majority of employees from outside Norway are from Germany and France.

Equal opportunity and family policy

The Board and Group Management are fully committed to promoting equal opportunity at SINTEF. One of SINTEF's objectives is to increase the proportion of women among both its research scientists and managers. The President of the SINTEF Group is a woman. When vacancies arise, SINTEF aims actively both to recruit women and to develop female managers from its own ranks. Structural imbalances in recruitment practices applied in the educational establishments are nevertheless reflected in SINTEF's staff.

Gender distribution within SINTEF is shown in the table below.

	Men	Women
The Board	44	56
Group Management	71	29
Research managers and middle managers	63	37
Research scientists	71	29
SINTEF	65	35

In 2013, the Research Council of Norway awarded SINTEF a threeyear project (the so-called Balance Project) to promote a better gender balance among its high-level technical positions and research managers. The project is now in its final phase and has contributed towards increasing the proportion of female managers at SINTEF. It has provided valuable know-how that can be applied both at SINTEF and other Norwegian research centres.

SINTEF subscribes to the following agreements: NHO/Tekna, NHO/ NITO, NHO/Forskerforbundet, NHO-Abelia/LO-NTL and NHO-Abelia/ Parat. We conduct annual salary negotiations with employee representatives. Salaries and conditions of employment are determined by negotiation and discussion with representatives in the respective employee organisations. Women are considered on an equal footing with men. We carry out systematic monitoring to ensure that undesirable salary differentials do not arise.

81 per cent of our work force are full-time employees. 24 per cent of our female employees and 17 per cent of males work part-time. One reason for the part-time employment statistics is that employees are taking advantage of the opportunity to reduce their working hours while receiving an early negotiated pension. SINTEF makes very little use of temporary employment arrangements. At the end of the year, 47 employees (2.4 per cent) were in temporary positions, 20 of them women and 27 men.

SINTEF's working environment survey for 2016 revealed no significant differences in terms of how men and women felt about their work situation. We will continue to develop focused initiatives to ensure that SINTEF remains an attractive workplace for both sexes.

It is one of SINTEF's aims to be successful in the global recruitment market. Many vacant research positions are advertised in English, and applicants worldwide have access to all job advertisements.

To ensure that foreign employees are well taken care of, SINTEF has established an integration programme for employees from other nations and their families. The programme offers expat services, free Norwegian lessons and teaching in English at the SINTEF School. Diversity management is one of the themes of the SINTEF School's manager development programme. Findings from the working environment study indicate that overseas employees enjoy working at SINTEF.



SINTEF goes to great lengths to meet the needs of employees with special adaptation requirements. As part of our IA objectives we are committed to adapting workplaces to those of our employees who either have, or develop, disabilities. This work takes place in close co-operation with the Norwegian Labour and Welfare Administration (NAV), and we make full use of available public support arrangements to facilitate this activity. It is also a defined IA objective that we pursue the current practice of focusing on skills and qualifications during the recruitment process, rather than on any limitations resulting from a disability.

SINTEF shall be an organisation that welcomes rounded individuals with a life outside the workplace. We therefore allow flexible arrangements to meet the individual's needs, such as flexible working hours for all employees and special arrangements for parents with young children.

Internationalisation

It is SINTEF's objective to be a world-leading research institute. Internationalisation is an integral part of SINTEF's business operations. We have been successful in the following fields of our globalisation strategy: The strengthening of our academic network, participation in the EU's research programmes, international sales of R&D services and international recruitment. At the same time, we must acknowledge that we have yet to find workable solutions to the problem of establishing a profitable presence outside Norway.

SINTEF was by far the best-represented Norwegian participant in the EU's 7th Framework Programme for Research and Development, which was concluded at the close of 2013. As part of this programme, SINTEF was granted participation in 254 projects, and the role of coordinator in 55. The EU has awarded SINTEF a total of EUR 149 million in support funding. Research linked to some of these projects will continue up until 2018. We are currently focusing strongly on achieving new projects linked to the Horizon 2020 programme, which was launched in 2014. As of February 2017, SINTEF has been granted participation in 104 projects in this programme, including 25 as coordinator. The EU has awarded SINTEF a total of EUR 60 million in support funding.

SINTEF's competitive success in the EU's research market demonstrates that our expertise has achieved international recognition. In order for SINTEF to fulfil its role in society at large, it is essential for us to be able to develop globally competitive solutions and to bring state-of-the-art know-how and networks to our clients.

The biggest challenge we face in connection with EU research projects has been that on occasion we have experienced a lack of clarity regarding the terms of reference set out for our participation. Moreover, the EU's compensation arrangements are tailored to research practices in other countries, by which the host nations cover the greater part of the costs. SINTEF is pleased that 2015 saw the establishment by the authorities of the "STIM-EU" support scheme, which provides funds to protect research institutes' resources from overdepletion during EU research projects. Nevertheless, we still fail to achieve full costs coverage in connection with our EU research projects, and the Board emphasises that SINTEF relies on this investment in knowledge being rewarded with greater activity linked to industrial clients so that our overall research portfolio can deliver acceptable financial returns. In 2015 SINTEF established an office in Brussels at the same premises as NTNU and the University of Bergen. The aim of establishing a presence here is to further consolidate our networks and participation in EU-funded research programmes. Our experience from 2016 shows that our presence in Brussels is important.

The authorities have set out an ambitious EU-related research strategy, and this was followed up in the Norwegian budget with a considerable consolidation of the STIM-EU scheme. Further increases in support, in step with the extended scope of the EU programme, are crucial if the stated research strategy aims are to be met and stable terms of reference established. It is essential that SINTEF's costs for participation in EU projects are covered in the same way as for those funded by the Research Council of Norway.

International sales in 2016 amounted to NOK 448 million, compared with NOK 499 million in 2015. This corresponds to 14 per cent (17 per cent in 2015) of SINTEF's total sales. We have completed projects for clients in 63 countries, and EU projects represent about 50 per cent of our international activity (38 per cent in 2015).

The external environment

Based on our vision of "Technology for a better society", SINTEF aims to give due consideration to the external environment in all aspects of its business activities.

The aim of SINTEF's environmental policy is to ensure that both our research and the management of our own business activities are carried out with due consideration for the external environment. It shall also ensure the continuous improvement of our own environmental performance.

(Extract from SINTEF's external environment policy)

The certification process carried out in 2016 has demonstrated that SINTEF has potential for improvement in its approach to assessing and prioritising environmental issues linked to its own activities. At the same time, the certification body highlighted some good examples of environmental assessment procedures that should provide the basis for a best practice model.

Environmental issues shall be assigned priority not only in connection with our own activities, but also during projects and in the application of the results of our projects. The last of these entails that we wish by means of our research projects to contribute towards environmental benefits for our clients and society at large.

By working systematically to reduce pressure on the environment, SINTEF is assuming environmental responsibility and meeting the expectations of its clients. In 2016, a single incident of pollution of the external environment was recorded, involving a spill of 100 litres of oil from an outdoor storage tank. The incident was controlled in an effective manner and the damage was limited.

SINTEF aims to reduce both the amounts of waste it generates, and its energy consumption. Measurement parameters were established in 2016 that will form the basis of goal management initiatives for the period leading up to 2018.

Our most important contributions to the environment are our worldleading research and development activities focused on renewable energy, climate-related and environmental technologies. These fields constitute significant areas of focus in SINTEF's principal strategy document. Our environmental work is communicated actively to the outside world by means of the dissemination of our research and expertise in the field of environmental science.

Ethics

SINTEF operates on the basis of a clear ethical platform. "Ethics, values and leadership" are key aspects of SINTEF's principal strategy. Our ethical guidelines can be found assembled in SINTEF's "Ethical Compass", document, which is accessible in the public domain via the SINTEF website.

Ethics-related work at SINTEF encompasses the fields of research, business and relational ethics. SINTEF's research ethics are based on regulations determined by the Norwegian ethics committees, on the principles promoted by the European Group on Ethics in Science and New Technologies, and by international agreements such as the Vancouver Convention.

SINTEF has made a commitment to the EU Charter and Code, or the "European Statement on Researchers" and "Code of conduct for the recruitment of research scientists". From an EU perspective, this is both an obligation and an aid to creating an attractive European research environment that enables research scientists to enjoy sound employment terms and conditions.

SINTEF expects and requires its suppliers and business partners to share our ethical values. Suppliers and business partners involved in our activities are obliged to submit written acceptance of our code of ethics. Ethical matters are discussed in management team and departmental meetings, and it has been the practice for many years that HSE and ethical matters constitute the first item on the agenda of all internal meetings.

Following up ethical guidelines is the responsibility of management. In addition, SINTEF has an Ethics Council and its own Ethics Ombudsman. The Ethics Council consists of six members, all of whom are either managers or elected SINTEF employee representatives. Four council meetings were held in 2016. The Ethics Ombudsman acts as an advisor and discussion partner for the entire SINTEF organisation and is also consulted in connection with external matters. The Ethics Ombudsman arrangement means that SINTEF satisfies the requirements of the Norwegian Working Environment Act regarding an in-house notification channel.

In autumn 2016, Tove Håpnes was appointed as the new Ethics Ombudsman at SINTEF, succeeding Svein Nordenson, who retired after ten years in the post.

SINTEF personnel currently have seats on three Norwegian research ethics committees; Medicine and Health, Social Science and the Humanities, and Natural Sciences and Technology.

SINTEF's role in society

SINTEF's role in society is a key component of our principal strategy, which states that SINTEF contributes towards the development of society at large by means of research and innovation. We contribute towards wealth creation and develop solutions to meet the challenges facing society today. We also communicate know-how, solutions and our recommendations in a proactive and resolute manner.

A major part of SINTEF's research activities is linked to the development of solutions addressing some of the key issues currently facing society, such as climate change and environmental issues, energy, food, health, clean water and future job creation. This research means that social responsibility is a key part of our core activities and corresponds with our vision of "Technology for a better society".

Our social responsibilities also address the way in which we administer our business activities and their links to issues such as human rights, employee rights and social conditions, the external environment and the battle against corruption. SINTEF has developed policies and guidelines linked to all these fields, which have been incorporated into our management system and code of ethics. Employee rights are safeguarded by means of SINTEF's collective salary agreements and the monitoring of our responsibilities as an IA enterprise.

SINTEF is a member of the UN Global Compact, and actively applies its ten principles on human rights, work standards, the environment and anti-corruption. SINTEF submits annual reports on its status (Communication on progress) in relation to these principles in accordance with the requirements set out in the Compact. This status report is part of SINTEF's annual reporting process and is published on our website.

SINTEF is a member of Transparency International, an organisation dedicated to the elimination of domestic and global corruption. SINTEF adheres to the guidelines and advice provided by this organisation.

An active dialogue with wider society is a key aspect of SINTEF's role. This includes both our role as a provider of terms of reference and research-based facts as a basis for public debate and policy development, as well as our work to consolidate the regulatory framework governing both research and SINTEF as an enterprise. In 2016 we have intensified our efforts to promote public relations and dialogue with the authorities, and this will continue in 2017.

Corporate governance at SINTEF

SINTEF wishes to be regarded as professional in terms of its leadership and management practices, exercising innovative competence within a non-bureaucratic decision-making structure.

SINTEF's central administrative bodies are the Board and the Council. The Board is the Foundation's principal administrative body, for which the Council acts in an advisory function, with authority as stipulated by the Norwegian Act relating to Foundations (stiftelsesloven) and SINTEF's Articles of Association.

SINTEF's Council carries on supervision to ensure that the Foundation's objectives are adhered to in accordance with the Articles of Association. It elects the Board, determines remuneration of board members and appoints an auditor. The Council is led by the Rector of NTNU and comprises 28 members including representatives from NTNU, the University of Oslo, the Research Council of Norway, the business sector, industry organisations and SINTEF's elected employee representatives.



The Board of the SINTEF Foundation acts as Board of the SINTEF Group. The activities of the three limited companies are governed by their Articles of Association, shareholders' agreements, inter-Group agreements and instructions issued to their respective Boards. Principles for the Group's administration and coordination with affiliated organisations have been established in accordance with SINTEF's overall goals and strategy.

The Board is made up of nine persons. Two are principally employed at NTNU, four are from industry or public sector administration, and three are permanent employees of the SINTEF Foundation. The Board has responsibility and authority in all matters which are not assigned to the Council. The Board acts in accordance with SINTEF's Articles of Association, the Act relating to Foundations, and those parts of the Norwegian Limited Liability Companies Act (lov for aksjeselskaper) that apply to foundations. The Board appoints the Group President and determines his or her salary and other employment terms, as well as determining the framework and principles for remuneration of the group management team. The Board held eight meetings in 2016, two of them via telephone conferencing.

SINTEF's Group management is responsible for the strategic administration of the entire scope of SINTEF's business activities. The Group President is responsible for day-to-day operations in accordance with the Articles of Association of the Foundation and Group agreements, and in all other respects in accordance with the Norwegian Act relating to Foundations and the Limited Liability Companies Act. The Group President is authorised to act on behalf of the Foundation, except in connection with the purchase, sale and mortgaging of property and the purchase and sale of companies. The Group President or Vice President acts as Board Chair of all the research companies which constitute the SINTEF Group.

SINTEF has established a system of tertial financial risk reporting. The risk environment is discussed by the management and Board of each of the research institutes, as well as at Group management and Board levels. Risk-reducing initiatives are identified and implemented on a continuous basis.

Following a certification process carried out by DNV GL in December 2016, SINTEF is now certified under the ISO 9001, ISO 14001 and OHAS 18001 standards.

The management system includes a shared system (Synergi) designed to administer accident notifications, unwanted incidents, as well as other non-conformances and suggestions for improvement. SINTEF is registered in the Achilles Joint Qualification System for suppliers to the oil and gas industry.

Future prospects and challenges

With the assistance of its leading expertise centres, SINTEF intends to make an active contribution to wealth generation and competitive competence, and to achieving the public authorities' goals within fields of key importance to society at large.

New technology is vital to wealth generation and the development of solutions to the key challenges facing society today. SINTEF regards it as an important task to assist its clients in boosting their profitability by the application of efficient processes and new technologies used to create new products and fuel growth in new markets. One of SINTEF's strengths is that we offer multidisciplinary expertise by combining technical teams working together across organisational boundaries. This facilitates the development of effective solutions for our clients and society as a whole.

Digitisation, automation and advanced robotic technologies are fuelling change in all aspects of our working life and in society at large. This creates new opportunities, but also challenges. SINTEF possesses high levels of expertise in these fields, and aims to make an active contribution towards a successful restructuring of the business and public sectors.

In order to develop solutions that will contribute towards a better society, it is crucial to be fully aware of the interplay between technology, people and secure communities. Our aim is to achieve a close integration of research in the fields of technology and the natural and social sciences.

A successful restructuring of society requires acceleration in the application of cross-disciplinary approaches and technological knowhow. Technology is blurring the traditional boundaries between established social and industrial sectors, for example, in the fields of smart grids, electric mobility and cyber risk. In order for SINTEF to be able to make a meaningful contribution during this restructuring, it is vital that we succeed in extracting the potential inherent in our cross-disciplinary skills and expertise.

The so-called "green transition" represents a key motivation for restructuring. SINTEF intends to concentrate its efforts on climate change technology and adaptation, renewable energy, energy efficiency and carbon capture and storage (CCS). We are assigning high priority to our future research activities in these fields. Petroleum research remains an important field because oil and gas continue to be key components in the global energy mix and will be important raw materials in other industrial processes for many decades to come. In the field of petroleum research we are placing a major focus on mitigating the negative environmental impacts of fossil fuel production and consumption.

The dramatic fall in oil and energy prices is having a major impact on the Norwegian economy, resulting in declining levels of activity and rising unemployment in many sectors and geographical regions. We note that our clients in the oil and gas and supply sectors have cancelled or postponed planned research projects. At the same time there is a growing need for projects in this sector that can contribute towards rapid and significant costs savings. This is a situation that offers considerable challenges for SINTEF. It is essential to intensify our focus on financial management, effective operations, and our ability to implement the rapid restructuring of our own activities. This situation brings to the fore the need for a drastic restructuring of Norwegian business and community life, providing not only challenges, but also opportunities for SINTEF. It is vital that we maintain a targeted focus on our clients, not only to safeguard our own revenues, but also so that we can provide them with timely assistance in these challenging times. Major structural changes within society also generate a growing need for research and innovation. Here, SINTEF is ready and equipped with the skills and expertise required to play a major role.

A new country study carried out by the OECD addressing the Norwegian innovation system emphasises the key role that research institutes play in driving restructuring within the Norwegian economy.



However, the report also considers problems linked to the fact that the techno-industrial institutes suffer from very low levels of basic funding, and expresses the view that this will be a challenge during restructuring. Low levels of basic funding have drawn the research institutes very close to their clients. However, this also makes them very reliant on solvent clients linked primarily to the established industries. On their own, the institutes have only limited opportunity to support start-up companies and less solvent organisations in new sectors. The OECD points out that this may restrict business activity to the traditional sectors, and put the brakes on regeneration and skills development in new commercial areas. This is an important issue that both SINTEF and the public authorities should be taking more seriously.

It is crucial that Norway achieves a position from which it can regenerate its domestic stock of laboratories and scientific equipment, so that Norwegian contract research can remain competitive in the international market place. At the same time we recognise that the development and operation of large and advanced laboratoryfacilities such as our MiNaLab, the multi-phase laboratory, and the marine engineering laboratories are demanding tasks. SINTEF wishes to put itself in a position from which, in collaboration with its clients, it can extract more of the growth potential in the field of ocean space. Growth potential linked to the oceans has become considerable in recent years. SINTEF's ambition is to become an expert and visible supporter of the industrial sector, the public authorities and society as a whole. It aims to achieve this by combining leading scientific research with its position in the international forefront of analysis, concept development and influence on public policy. The establishment of SINTEF Ocean AS is a step in this direction.

We are working actively to consolidate our market penetration in the oil and gas sector. This may include the possibility of merging SINTEF Petroleum Research with the SINTEF Foundation.

The Board extends its thanks to all SINTEF employees and business partners for their collaborative efforts and contributions during 2016. We also wish to thank the co-owners of subsidiaries and representatives from the business and wider communities who participate in SINTEF's many boards and councils.

Trondheim, 29 March 2017

Marit Reitan

or Grand Tor Grande

adutspela Grete Aspelun

Walter Qvam Chairman

Hen hierice Mari Thjømøe

Rune Garen

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Alexandra Bech Gjørv President – CEO

Mand Seisern Ingrid Selseth

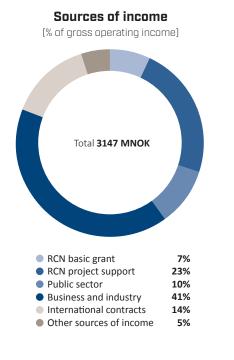
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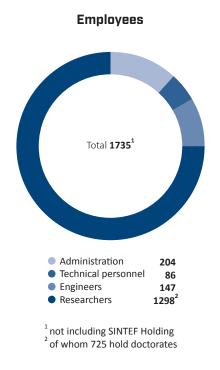
Tommy Mokkelbos

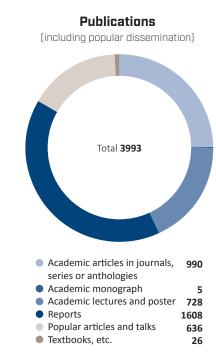
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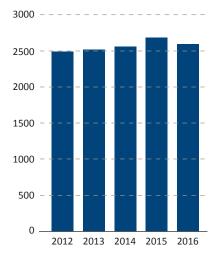








Net operating income (MNDK)



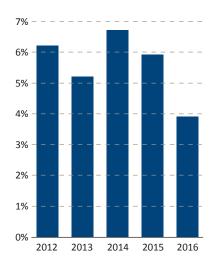




* Operating margin inclusive of a one-off expenditure item of NOK 353 million in connection with the change-over to the new pension scheme.

Investments

Scientific equipment and buildings (% of net operating income)





SINTEF 2U



Equal opportunities in SINTEF

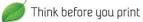
Key financial figures

МЛОК	2012	2013	2014	2015	2016
Result					
Gross operating income	2 966	2 942	2 936	3 162	3 147
Net operating income	2 487	2 517	2 561	2 672	2 596
Operating result	99	71	106	-301	80
Financial revenues	60	50	70	54	52
Financial expenditures	27	18	33	46	35
Profit/loss before tax	132	103	143	-293	97
Annual result	94	55	94	-236	56
Balance Fixed assets	1 168	1 253	1 435	1 329	1 300
Current assets	2 281	2 490	2 414	2 360	2 322
Sum assets	3 448	3 743	3 849	3 688	3 622
Equity capital	2 248	2 302	2 394	2 126	2 178
Long-term liabilities	68	76	17	48	52
Short-term liabilities	1 132	1 365	1 438	1 514	1 392
Liabilities	1 200	1 441	1 455	1 562	1 444
Sum equity and liabilities	3 448	3 743	3 849	3 688	3 622
Profitability Operating margin %	4.0	2.8	4.1	-11.3	3.1
Total profitability %	4.6	3.4	4.6	-6.6	3.6
Profitability of equity capital %	6.0	4.5	6.1	-13.0	4.5
Liquidity Net cash flow from operational activitities	74	85	19	431	193
Degree of liquidity 1	2.0	1.8	1.7	1.6	1.7
Solidity Equity capital %	65	62	62	58	60
Operating working capital	1 074	1 126	976	845	929

Profit and Loss State,ment

Figures in NOK thousand

The SINTEF	Foundation		SIN	TEF
2015	2016	Notes	2016	2015
		OPERATING REVENUES AND EXPENDITURES		
1 661 241	1 698 426	External project revenues	2 863 637	2 823 276
134 120	138 458	Funding from the Research Council of Norway	224 355	191 258
155 744	107 810	Other operating revenues	58 556	147 359
1 951 106	1 944 695	2, 19 Total gross operating revenues	3 146 548	3 161 893
338 168	356 579	Direct project costs	550 514	489 652
1 612 938	1 588 116	Total net operating revenues	2 596 034	2 672 241
1 154 291	1 096 843	3, 12 Salary expenditures	1 857 214	1 961 148
247 627	0	3, 12 Pension expenditures on discontinuation of the defined benefit scheme	0	353 080
71 513	72 775	4, 5 Write-offs of fixed and and intangible assets	113 170	104 525
347 206	356 924	3, 5 Other operating expenditures	545 228	554 738
1 820 636	1 526 542	Total operating expenditures	2 515 611	2 973 491
-207 699	61 574	OPERATING PROFIT/LOSS	80 423	-301 250
		FINANCIAL REVENUES AND EXPENDITURES		
-47 763	9 946	6 Revenue from investments in subsidiary and affiliated companies	-7 879	-2 851
218	10 940	Interest income	19 399	0
218	155	Interest earnings from businesses in the same group	0	218
8 428	21 118	Other financial revenues	39 561	48 198
8 175	287	8 Changes in value of financial instruments rec. at market value	630	8 175
0	1 861	Interest expense	2 642	0
3 483	16 245	Other financial expenditures	32 849	45 923
-34 425	24 342	Net financial revenues	16 220	7 816
-242 124	85 916	Annual profit/loss before tax	96 642	-293 434
-35 156	29 063	15 Tax expenditures	40 151	-57 692
-206 968	56 853	ANNUAL PROFIT/LOSS	56 491	-235 742
		Minority interests' share of annual profit/loss	-360	-28 772
		Majority interests' share of annual profit/loss	56 851	-206 970
		ALLOCATIONS		
-206 968	56 853	Transferred to other equity		
-206 968	56 853	Total allocations		



Balance sheet

Figures in NOK thousand The SINTEF Foundation

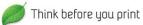
I ne SINTEF	Foundation		SINT	TEF
2015	2016	Notes	2016	2015
		ASSETS		
		Non-current assets		
		Intangible assets		
115 816	101 519	4 Concessions, patents, licences, trademarks, etc.	101 519	115 816
231 929	202 867	15 Deferred tax assets	327 419	358 297
0	0	4 Goodwill	80	200
347 745	304 385	Total intangible assets	429 017	474 313
		Fixed assets		
439 805	446 911	5 Unserviced sites, buildings and other real property	644 085	665 635
56 977	61 632	5 Scientific equipment	140 081	120 847
10 623	12 453	5 Tangible operating assets, inventories, tools, office equipment, etc.	28 965	25 096
507 406	520 996	Total fixed assets	813 132	811 578
		Non-current financial assets		
728 398	735 605	6 Investments in subsidiary companies	0	0
12 539	12 539	10 Loans to companies in the same group	0	0
0	0	6 Investments in affiliated companies and jointly-controlled enterprises	20 269	9 431
70	70	7 Investments in shares and units	4 629	17 026
0	0	12 Pension plan assets	3 879	4 2 4 2
7 970	32 927	10 Other long-term receivables	29 478	12 042
748 976	781 140	Total non-current financial assets	58 256	42 741
1 604 127	1 606 521	Total non-current assets	1 300 405	1 328 632
		Current assets		
9 115	8 579	Inventory of finished goods	9 489	10 075
375 733	292 656	9 Work in progress	406 533	554 420
384 847	301 234	Total goods	416 022	564 494
		Receivables		
248 208	298 809	17, 19 Client receivables	544 079	519 871
18 423	11 148	Consolidated current receivables	0	0
7 704	16 824	Other current receivables	63 476	34 544
274 336	326 782	Total receivables	607 555	554 415
		Investments		
0	0	7 Market-based shares	30 083	34 011
•	133 323	8 Market based bonds and other securities	292 195	291 565
133 035				
133 035	433.935	To be I for the state of the	222.272	225 556
133 035 133 035	133 323	Total investments	322 278	325 576
133 035				
	133 323 543 591	Total investments 19, 20 Bank deposits, cash, etc.	322 278 975 970	325 576 915 064
133 035				
133 035 502 918	543 591	19, 20 Bank deposits, cash, etc.	975 970	915 064



Balance sheet

Figures in NOK thousand

The SINTEF	Foundation			SIN	TEF
2015	2016	Notes		2016	2015
			LIABILITIES AND SHAREHOLDER'S EQUITY		
			Equity		
			Paid-in equity		
69 300	69 300		Foundation's equity	69 300	69 300
69 300	69 300		Total paid-in equity	69 300	69 300
			Revenue reserves		
613 709	620 916		Reserves	620 916	613 709
1 192 073	1 238 979		Other equity	1 238 983	1 192 073
1 805 782	1 859 895	11	Total revenue reserves	1 859 900	1 805 783
			Minority interests	248 958	251 096
1 875 082	1 929 195		Total equity	2 178 158	2 126 178
			Liabilities		
			Provisions for liabilities		
13 660	27 187	12	Pension plan liabilities	47 298	23 534
13 756	0		Other provisions for liabilities	0	13 756
27 416	27 187	Total provisions for liabilities		47 298	37 290
			Other long-term liabilities		
0	0	13, 17	Debts to credit institutions	4 400	6 631
40 839	34 712	10, 13	Long-term loans, Group companies	0	0
0	0	13	Other long-term liabilities	0	4 002
40 839	34 712		Total other long-term liabilities	4 400	10 634
			Current liabilities		
0	0	17	Debts to credit institutions	4 028	0
80 429	108 746	19	Accounts payable to suppliers	166 756	151 858
0	0	15	Current taxes	9 425	1 009
99 496	99 232		Tax withholdings and other public taxes/duties	188 975	194 297
	194 040		Advance payments from clients	314 605	467 893
305 406		16 Other current liabilities			C00.025
305 406 470 595	518 338	16	Other current liabilities	708 586	699 025
	518 338 920 357	16	Total current liabilities	708 586 1 392 376	1 514 081
470 595 955 926	920 357	16	Total current liabilities	1 392 376	1 514 081
470 595		16			



Statement of Cash Flow

Figures in NOK thousand

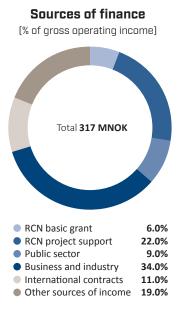
The SINTEF Foundation				SINTEF			
2015	2016		2016	2015			
		CASH FLOWS FROM OPERATIONAL ACTIVITIES					
-242 124	85 916	Annual profit/loss before tax	96 642	-293 434			
47 763	-9 946	Share of profit/loss in subsidiaries and affiliated companies	7 879	2 851			
0	0	Tax paid during period	-1 009	-3 517			
71 513	72 775	Write-offs and write-downs during period	113 170	104 525			
171 820	13 527	Change in pension plan liabilities	24 127	250 858			
0	0	Write-downs of share investments	0	5 113			
11 825	-287	Items classified as investments or financing activities	9 295	28 376			
-3 700	536	Changes in stock/inventories	586	-3 763			
-6 929	83 077	Changes in work in progress	147 886	-26 264			
54 531	-50 601	Changes in client receivables	-24 208	49 116			
-128 186	28 317	Changes in supplier accounts payable	14 899	-178 582			
-3 118	1 148	Changes in inter-Group transactions	0	0			
320 816	-111 720	Changes in other current assets and liabilities	-196 413	495 292			
294 211	112 741	Net cash flow from operational activities	192 854	430 572			
		Cash flow from investments					
437	0	Revenues from sales of fixed assets	197	1 933			
-52 965	-71 778	Purchases of fixed assets	-100 212	-156 524			
0	-290	Purchases of intangible assets	-290	0			
-20 000	0	Purchases of non-current financial assets	-5 997	0			
0	0	Payments for investments in financial fixed assets	-27 440	0			
-72 528	-72 068	Net cash flow from investment activities	-133 742	-161 924			
		Cash flow from financing activities					
0	0	Down payments on long-term liabilities	-6 234	2 335			
0	0	Net change in overdraft facility	4 028	0			
0	0	Payment of equity	4 000	0			
0	0	Dividend payments	0	-428			
0	0	Net cash flow from financing activities	1 794	1 907			
0	0	Effect of ex. rate fluctuations on bank deposits, cash, etc.	0	0			
221 684	40 673	Net change in bank deposits, cash, etc.	60 906	270 555			
281 234	502 918	Bank deposits, cash and similar reserves as of 01.01.	915 064	644 509			
502 918	543 591	Bank deposits, cash and similar reserves as of 31.12.	975 970	915 064			

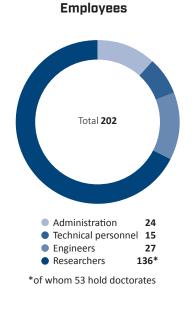


SINTEF Building and Infrastructure

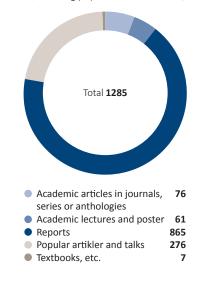
SINTEF Building Research is an international leader in research dedicated to the sustainable development of buildings and infrastructure. We create value for our clients through research and development, research-based consultancy services, certification and dissemination of knowledge. We have top-level expertise in such areas as architecture, construction physics, building management, operation and maintenance, water supply and other infrastructure.



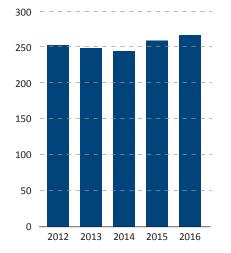




Publications (including popular dissemination)





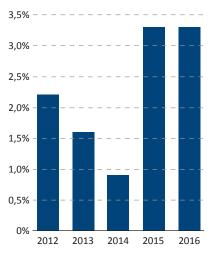






Investments

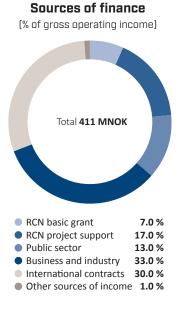
Scientific equipment and buildings (% of net operating income)

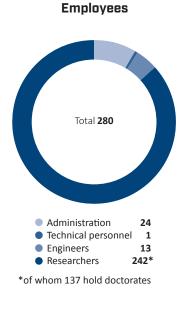


SINTEF ICT

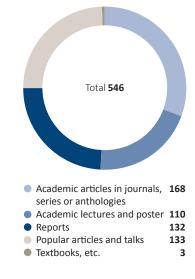
SINTEF ICT (SINTEF Digital from 01.01.2017) supplies research-based expertise and technology for the development of systems, products and services in the fields of micro- and sensor systems, monitoring and communication systems and information systems and numerical modelling software. We operate a modern micro-/nanolaboratory (MiNaLab) that is among the world's leading laboratories in the development and small-scale production of radiation sensors.



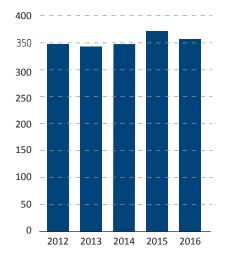


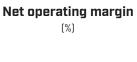


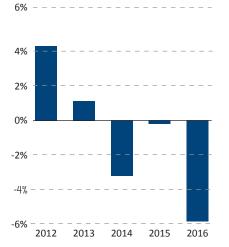
Publications (including popular dissemination)





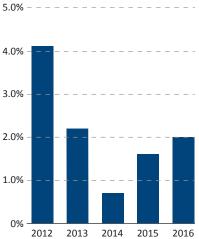






Investments

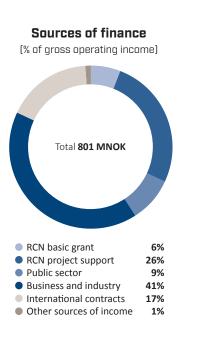
Scientific equipment and buildings (% of net operating income)



SINTEF Materials and Chemistry

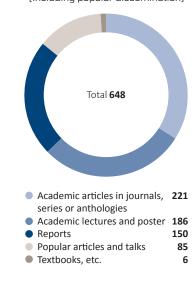
SINTEF Materials and Chemistry is a contract research institute that offers a high level of expertise in materials science, biotechnology, applied chemistry and biology. Our multidisciplinary knowledge base enables us to develop enabling technologies and cross-disciplinary solutions for a wide range of markets, in close collaboration with our clients and partners.



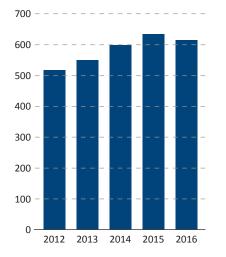


Employees Total 434 • Administration 41 • Technical personnel 21 • Engineers 65 • Researchers 307* * of whom 216 hold doctorates

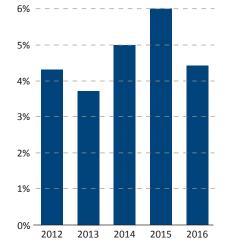
Publications (including popular dissemination)





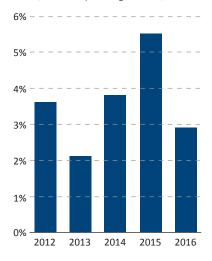


Net operating margin [%]



Investments

Scientific equipment and buildings (% of net operating income)

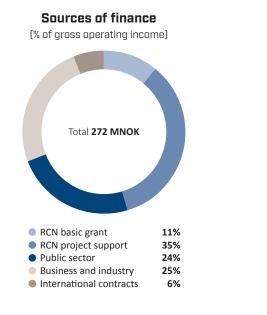


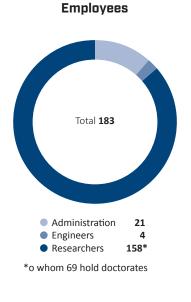


SINTEF Technology and Society

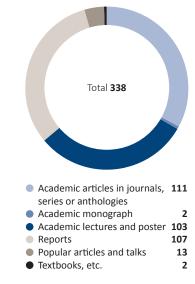
SINTEF Technology and Society is a cross-disciplinary institute carrying out research in both the technical-industrial and social science fields. Our role in society is to identify solutions to the major challenges that lie at the interface of societal and technological development. In close collaboration with our clients in the private and public sectors, we carry out applied research and innovation targeted at working life and business, energy and the climate, health, socio-demographics and welfare, smart transport systems, and safe and secure communities.

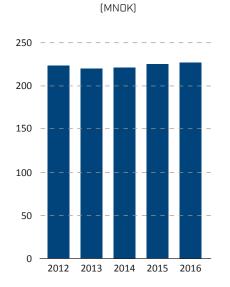






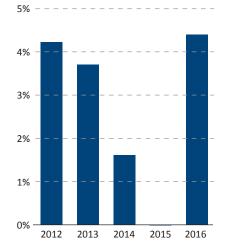






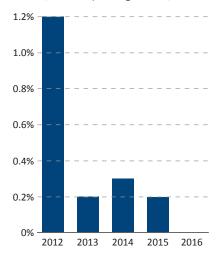
Net operating income

Net operating margin [%]

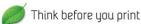


Investments

Scientific equipment and buildings (% of net operating income)



www.sintef.no



SINTEF Energy Research

SINTEF Energy Research aims to shape the energy systems of tomorrow, and we operate with three main geographical perspectives:

- Norway: safe and inexpensive energy systems
- Europe: wealth generation based on Norwegian energy resources
 The world: technology development in the global market place

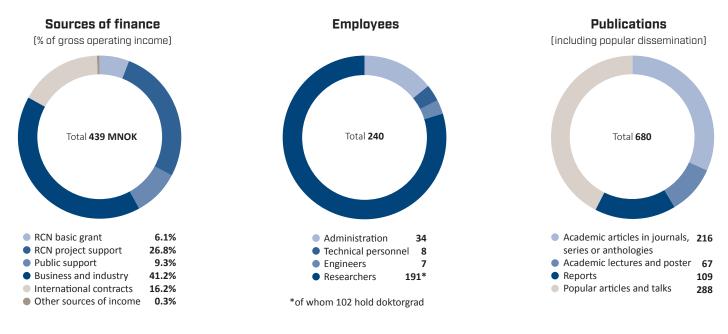
SINTEF Energy Research's strategic areas of focus cover the entire value chain from production to consumption: energy efficiency, CCS,

hydropower, offshore wind power, bioenergy, system integration of renewable energy, smart grids, the transmission and linkage of Norwegian energy systems to Europe, gas technology, LNG and hydrogen, as well as subsea power supply systems and processing.

Our areas of focus are contributing towards the transition to, and the achievement of, tomorrow's sustainable energy systems.

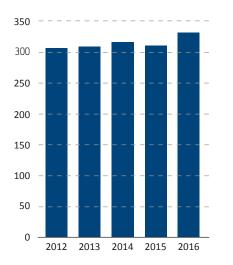


On 25 May 2016, Norway was granted eight new Centres for Environmentally-friendly Energy Research (CEERs). From the left: Erik Marstein from the Norwegian Institute for Energy Technology (IFE, heading the CEER called Solar), Mona Jacobsen Mølnvik from SINTEF (heading the CEER NCCS), Duncan Akporiaye from SINTEF (heading the CEER Nor SusBio), Gerd Kjølle from SINTEF (heading the CEER CINELDI), Tord Lien, the Norwegian Minister of Petroleum and Energy, Hege Brende from the Norwegian University of Science and Technology (NTNU, heading the CEER HydroCen), Arild Gustavsen, also from NTNU (heading the CEER ZEN), Anne Karin T. Hemmingsen from SINTEF (heading the CEER Higher F) and Øystein Ulleberg from IFE (heading the CEER MoZEES).





SINTEF Energy Research

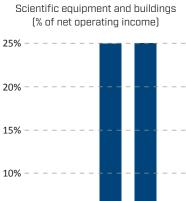


Net operating income

(MNOK)

Net operating margin

* Operating margin inclusive of a one-off expenditure item of NOK 79 million in connection with the change-over to the new pension scheme.



Investments

10% -----5% -----0% 2012 2013 2014 2015 2016

Key financial figures

МNОК	2012	2013	2014	2015	2016
Result Gross operating income	401	399	399	397	439
Net operating income	306	309	316	310	331
Operating result	22	24	7	-92	18
Annual result	25	26	13	-63	20
Balance Fixed assets	98	121	207	252	237
Current assets	457	483	404	292	288
Sum assets	555	604	611	544	524
Equity capital	359	385	389	325	339
Liabilities	196	219	222	219	185
Sum equity and liabilities	555	604	611	544	524
Profitability Operating margin %	7.1	7.9	2.1	-29.7	5.4
Total profitability %	6.1	6.1	4.5	4.7	4.6
Profitability of equity capital %	9.6	9.5	7.0	7.6	6.1
Liquidity Net cash flow from operational activities	38	15	-32	49	33
Degree of liquidity	2.3	2.2	1.8	1.3	1.6
Solidity Equity capital %	64.7	63.8	63.7	59.7	64.7
Operating working capital	236	265	186	73	104

SINTEF Fisheries and Aquaculture

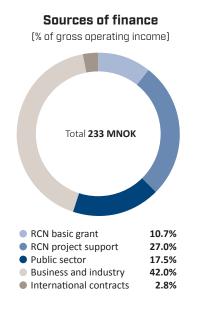
SINTEF Fisheries and Aquaculture AS is the leading European technological research institute for the fishing and aquaculture sector. Our technological research and development covers

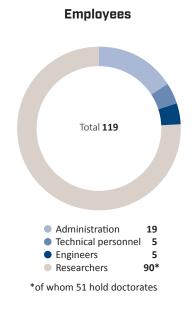
the entire marine value chain. Our most important source of clients is the Norwegian fishery and aquaculture industry. The Institute is from 01.01.2017 part of SINTEF Ocean AS.

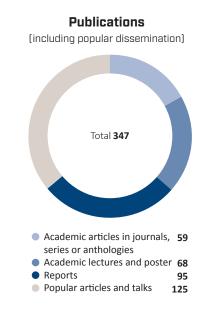


We perform many research cruises with the aim of developing solutions together with our clients.

Photo: TYD

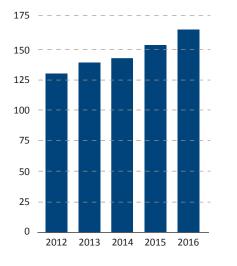






Think before you print

SINTEF Fisheries and Aquaculture



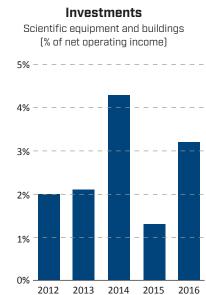
Net operating income

(MNOK)

Net operating margin

[%]

* Operating margin inclusive of a one-off expenditure item of NOK 14 million in connection with the change-over to the new pension scheme.



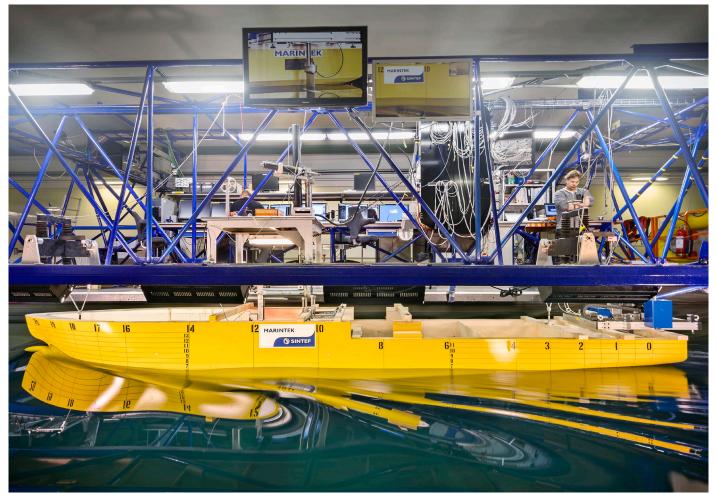
Key financial figures

МNОК	2012	2013	2014	2015	2016
Result Gross operating income	181	189	197	205	233
Net operating income	130	139	143	153	166
Operating result	8	9	6	-9	16
Annual result	8	8	5	-8	13
Balance Fixed assets	16	27	36	26	33
Current assets	83	95	107	108	106
Sum asset	99	122	143	134	138
Equity capital	54	62	67	59	74
Liabilities	45	60	76	75	65
Sum equity and liabilities	99	122	143	134	138
Profitability Operating margin %	6.2	6.5	4.0	-5.9	9.9
Total profitability %	10.7	9.3	6.3	-3.7	13.2
Profitability of equity capital %	19.0	16.6	11.0	-15.6	25.2
Liquidity Net cash flow from operational activities	-7	28	8	-5	-1
Degree of liquidity	2.0	1.6	1.4	1.5	1.7
Solidity Equity capital %	54.5	50.8	46.8	44.0	53.3
Operating working capital	41	35	31	34	42

MARINTEK

The Norwegian Marine Technology Research Institute AS (MARINTEK) performs research and development in maritime technology for a global market, with particular emphasis on the maritime sector, oil and gas, and ocean energy. MARINTEK develops and verifies technologi-

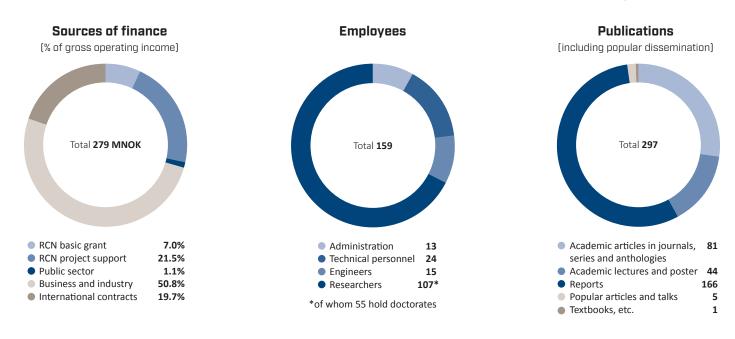
cal solutions and business and operating concepts for the shipping, ocean energy and petroleum sectors, as well as the maritime equipment industry. The Institute is from 01.01.2017 part of SINTEF Ocean AS.



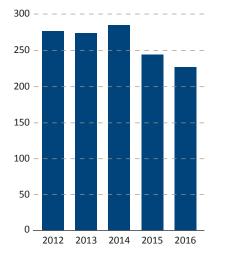
In 2014, the Ship Model Tank at Tyholt celebrated the 75th anniversary of its official opening on 1 September 1939. For generations, the R&D performed using the Ship Model Tank has been of great importance for Norway's role as a major maritime power.

Photo: MARINTEK/Lars Kristian Steen

Think before you print

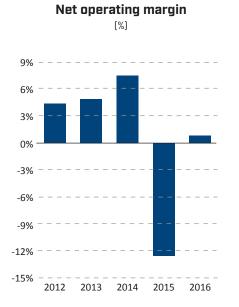


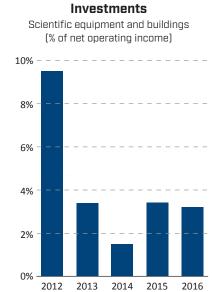
MARINTEK



Net operating income

(MNOK)





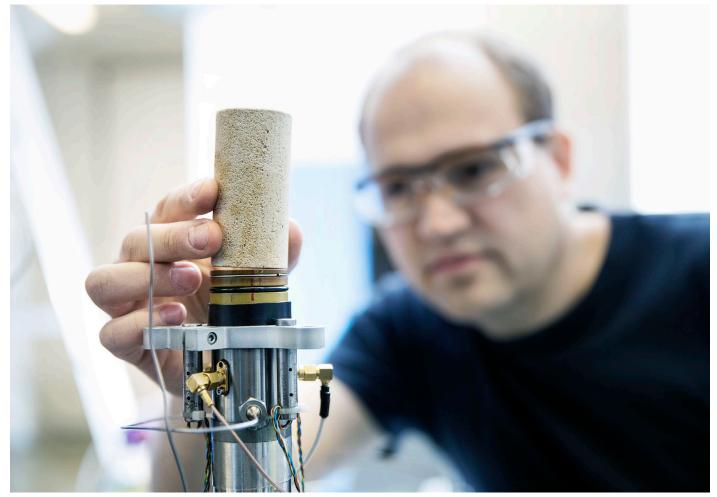
Key financial figures

МЛОК	2012	2013	2014	2015	2016
Result Gross operating income	319	316	332	303	279
Net operating income	277	273	285	244	227
Operating result	12	13	21	-31	2
Annual result	15	15	19	-29	1
Balance Fixed assets	98	109	97	97	88
Current assets	271	271	292	272	262
Sum assets	369	380	390	369	350
Equity capital	230	238	252	223	223
Liabilities	138	142	138	146	127
Sum equity and liabilities	369	380	390	369	350
Profitability Operating margin %	4.3	4.8	7.4	-12.6	0.8
Total profitability %	1.6	1.8	2.7	-5.0	3.8
Profitability of equity capital %	3.4	3.1	3.9	-14.2	1.7
Liquidity Net cash flow from operational activities	1	5	57	12	41
Degree of liquidity	2.0	1.9	2.1	1.9	2.2
Solidity Equity capital %	62.4	62.7	64.6	60.4	63.8
Operating working capital	155	157	159	131	141

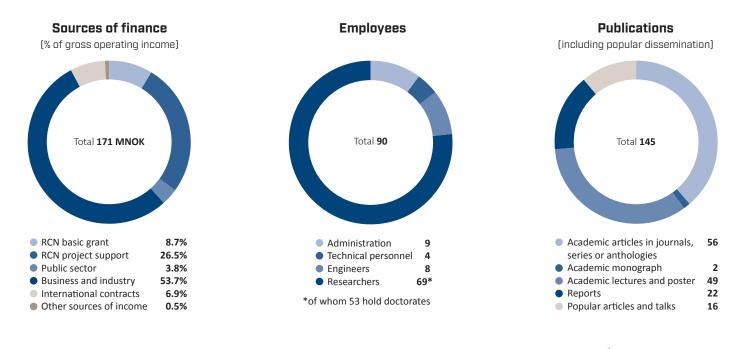


SINTEF Petroleum Research

SINTEF Petroleum Research develops technological solutions for efficient, safe and environmentally friendly petroleum operations. We contribute to cost-effective wealth creation in the petroleum sector with minimum use of energy and materials. We also help to ensure that the value is generated with the lowest possible effects on the environment, with the help of technology that takes people, materials and the immediate environment into account.

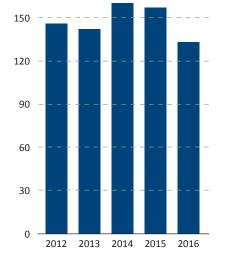


Research scientist Lars Erik Walle at the Formation Physics Laboratory is studying the strength properties of chalk in order to improve our knowledge of borehole stability in connection with drilling in, and production from, chalk reservoirs. Photo: SINTEF/Geir Mogen



Think before you print

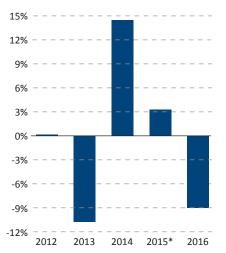
SINTEF Petroleum Research



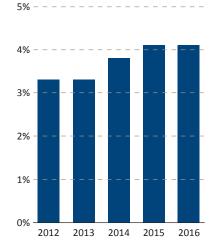
Net operating income

(MNOK)

Net operating margin
^[%]



* Operating margin inclusive of a one-off expenditure item of NOK 8 million in connection with the change-over to the new pension scheme. Investments Scientific equipment and buildings (% of net operating income



Key financial figures

МNОК	2012	2013	2014	2015	2016
Result Gross operating income	199	172	188	203	171
Net operating income	146	142	160	157	133
Operating result	0	-15	23	5	-12
Annuəl result	6	-10	39	13	-11
Balance Fixed assets	98	105	105	105	99
Current assets	223	210	223	231	211
Sum assets	321	314	328	337	311
Equity capital	237	229	256	265	252
Liabilities	83	86	72	71	58
Sum equity and liabilities	320	315	328	337	311
Profitability Operating margin %	0.1	-10.8	14.4	3.2	-9.1
Total profitability %	0.6	-0.7	3.1	1.1	-0.6
Profitability of equity capital %	0.7	-1.1	4.0	1.2	-1.1
Liquidity Net cash flow from operational activities	-8	3	22	23	1
Degree of liquidity	3.2	3.0	3.2	3.2	3.6
Solidity Equity capital %	74.2	72.6	78.2	78.8	81.2
Operating working capital	153	134	154	160	153



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Deloitte AS Postboks 5670 Sluppen NO-7485 Trondheim Norway

Besøksadresse: Dyre Halses gate 1A

Tel: +47 73 87 69 00 www.deloitte.no

To the Board of Directors of SINTEF Foundation

INDEPENDENT AUDITOR'S REPORT

Report on the Audit of the Financial Statements

Opinion

We have audited the financial statements of SINTEF Foundation showing a profit of NOK 56 853 000 in the financial statements of the parent company and profit of NOK 56 491 000 in the financial statements of the group. The financial statements comprise:

- The financial statements of the parent company, which comprise the balance sheet as at 31 December 2016, and the income statement and cash flow statement for the year then ended, and notes to the financial statements, including a summary of significant accounting policies, and
- The financial statements of the group, which comprise the balance sheet as at 31 December 2016, and the income statement and cash flow statement for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion:

- The financial statements are prepared in accordance with the law and regulations.
- The accompanying financial statements give a true and fair view of the financial position of the parent company as at 31 December 2016, and its financial performance and its cash flows for the year then ended in accordance with the Norwegian Accounting Act and accounting standards and practices generally accepted in Norway.
- The accompanying financial statements give a true and fair view of the financial position of the group as at 31 December 2016, and its financial performance and its cash flows for the year then ended in accordance with the Norwegian Accounting Act and accounting standards and practices generally accepted in Norway.

Basis for Opinion

We conducted our audit in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including International Standards on Auditing (ISAs). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Company and the Group as required by laws and regulations, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Other information

Management is responsible for the other information. The other information comprises the Board of Directors' report, but does not include the financial statements and our auditor's report thereon.

Our opinion on the financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

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In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated.

If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

Responsibilities of the Board of Directors and the Managing Director for the Financial Statements

The Board of Directors and the Managing Director (management) are responsible for the preparation in accordance with law and regulations, including fair presentation of the financial statements in accordance with the Norwegian Accounting Act and accounting standards and practices generally accepted in Norway, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's and the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern. The financial statements use the going concern basis of accounting insofar as it is not likely that the enterprise will cease operations.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including ISAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including International Standards on Auditing (ISAs), we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error. We design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's or the Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to



the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.

- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit

Report on Other Legal and Regulatory Requirements

Opinion on the Board of Directors' report

Based on our audit of the financial statements as described above, it is our opinion that the information presented in the Board of Directors' report concerning the financial statements, the going concern assumption, and the proposal for the allocation of the profit is consistent with the financial statements and complies with the law and regulations.

Opinion on Registration and Documentation

Based on our audit of the financial statements as described above, and control procedures we have considered necessary in accordance with the International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements Other than Audits or Reviews of Historical Financial Information, it is our opinion that management has fulfilled its duty to produce a proper and clearly set out registration and documentation of the company's accounting information in accordance with the law and bookkeeping standards and practices generally accepted in Norway.

Opinion on Management

Based on our audit of the financial statement as describes above, and control procedures we have considered necessary in accordance with the International Standard on Assurance Engagements (ISAE) 3000, «Assurance Engagements Other than Audits or Reviews of Historical Financial Information», it is our opinion that the Foundation is managed in accordance with law, the Foundation's objective and the by-laws incidentally.

Trondheim, 29 March 2017 Deloitte AS

Mette Estenstad State Authorised Public Accountant

Note: This translation from Norwegian has been prepared for information purposes only.