FinNuclear

DIRECTORY 2019

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Cover images: *Peikko Group*
VTT
Fennovoima Oy

Inner page images: *Pöyry Finland Oy*
SSAB
Kymsol (Kymppi Group)
Econia Ltd.
VTT
Scanstockphoto
TITAN-2, Leningrad II NPP

January 2019

Nuclear energy and facing climate change

The energy policy debate intensified towards the end of last year. In its report of October 2018, the IPCC (Intergovernmental Panel on Climate Change), a body under the United Nations for assessing the science related to climate change, stated that global warming would be about 1.5°C by the 2050s. According to this report, there is clear evidence that climate change will result in strong and extreme weather conditions that will appear more frequently. Today, we need to use all possible measures and efforts to tackle this development, which mostly results from CO_2 emissions.

In Finland, 80% of electricity production is already based on CO_2-free production, when we sum together the figures from renewable-based energy and nuclear energy. Therefore, we cannot respond to climate change by changing the energy production methods alone; we need to combine the efforts of industry, agriculture and transport too, and this will affect everyone.

In this climate change debate, the term technology neutrality has been used to enhance the change towards CO_2-free energy production. The use and construction of nuclear energy plants to meet these goals will be necessary together with renewables. We need nuclear energy to provide electricity that is not dependent on the climate or weather conditions. The value of constant and reliable electricity production will increase as a growing part of the output for the grid comes from renewable sources, which are dependent on the weather conditions. At the same time as the change towards CO2-free energy production, a change towards electrifying industrial processes and transport will take place as well, and this in turn will mean an increase in electricity consumption.

Under these circumstances, the use of nuclear energy needs no further justification. The acceptability of nuclear energy in Finland is already on a good level, thanks to the functioning nuclear waste management programmes of the license holders and excellent safety and operating indicators. We have also been able to make decisions on nuclear new build and lifetime extensions in Finland. In autumn 2018, the Government gave a license to operate Olkiluoto units 1 and 2 for the next 20 years. At the beginning of this year, the first operating license of Olkiluoto 3 will come into force. The handling of the construction license for Hanhikivi 1 is ongoing and the schedule of this process is currently under review. However, we know that the granting of a license is a long and very demanding process.

To speed up nuclear projects we would need more harmonisation of requirements and processes on the European or even on the global level. Only in China, where several units are built at the same time, can the benefits of volume be gained. In 2018, the Finnish nuclear power companies initiated a joint project, KELPO, to study these possibilities. One goal of the KELPO project is to enable the use of industrial high quality components in nuclear power plants without compromising the safety classification. This study is important and could raise the interest of suppliers and manufacturers in the challenging nuclear industry.

One important aspect in developing the processes is to have an active and competent supplier network and supply chains. This would benefit nuclear safety as well. At the beginning of 2018, the EU nuclear safety directive was implemented in our Finnish Nuclear Energy Act. According to the legislation, the licensee is now responsible for the quality of the supply chains and the products purchased for the site. Thus, a nuclear power company needs to know and trust its suppliers. Moreover, the company also needs to rely on the willingness of the suppliers to develop their competences and products continuously.

This is the challenge of today, and when it is met, it will be time to look outside Finland too. A business card from Finland is highly appreciated abroad in nuclear projects. However, the technologies are complex and require multi-faceted knowledge, and thus co-operation and networking are vital. This type of need was identified in 2018 and our ministry, MEAE, has also supported this development by contributing to several international seminars and meetings and by prioritising the funding of this work to enhance the export of our nuclear knowledge and products.

This year, Finlandia Hall in Helsinki will be hosting the activities of the Nordic Nuclear Forum 2019 event, where the Finnish actors have joined forces. The hopefully wintry environment will provide a perfect backdrop for our involvement and support in showcasing our competencies to the international guests.

Liisa Heikinheimo

Deputy Director General
Energy Department at Ministry of Economic Affairs and Employment, Finland

adiabatix
advanced insulations

Company name	Adiabatix Oy
Address	Runsorin puistokatu 6 65380 Vaasa Finland
Tel.	+358 20 730 7900
Web	www.adiabatix.fi
Founded	2000
Employees	20
Annual turnover	3.1 M EUR

Contact Jerker Kullberg
Managing Director
jerker.kullberg@adiabatix.fi

Arto Wainio
Sales & Marketing
arto.wainio@adiabatix.fi

Member of
FinNuclear Association

Adiabatix Oy

Adiabatix Oy was established in the year 2000 to design heat management solutions for industrial needs. The main target of Adiabatix is to create more advanced insulation solutions for its customers by using modern design and production methods with environmental friendly techniques and materials.

Areas of core competence

Heat management solutions. Insulation module systems for primary components.

References

- Forsmark NPP MSIV, Adi-NG
- CCI AG Test laboratory, Adi-NG
- Forsmark 3 EFFE SPF (Westinghouse), Adi-NG

Certificates ISO 9001, ISO 14001, OHSAS 18001, Achilles

Cadmatic Oy

Company name	Cadmatic Oy
Address	Linnankatu 52 20100 Turku Finland
Tel.	+358 50 3528 780
Web	www.cadmatic.com
Founded	1983
Employees	135
Annual turnover	20 M EUR
Contact	Jim Nyroos Senior Sales Manager jim.nyroos@cadmatic.com

Member of FinNuclear Association

CADMATIC develops and supplies efficient and user-friendly 3D design and information management solutions for industry.
CADMATIC Plant Design solutions cover all phases of projects and the plant life cycle from basic and detail design to installations, operations
and maintenance. The software includes state-of-the-art solutions for globally distributed design, project reviews and information management.
CADMATIC has its headquarters in Turku, Finland and is part of the Elomatic Group, a leading European engineering and consulting company.

Areas of core competence

CADMATIC Plant Design Solution for 3D and process design of complete industrial projects.
CADMATIC Information Management solutions for sharing and managing all project and plant information.

References

Nuclear Power Corporation of India Ltd (NPCIL) has standardized Cadmatic for its projects with suppliers like TATA Consulting Engineers (TCE), Larsen & Toubro Consulting and SST India. Bhabha Atomic Research Centre (BARC) and Heavy Water Board (HWB) in India.

Certificates: ISO 9001

Citec Oy Ab

Company name	Citec Oy Ab
Address	P.O. Box 109 65101 Vaasa Finland
Tel.	+358 6 3240 700
Web	www.citec.com
Founded	1984
Employees	1300
Annual turnover	50 M EUR (Group 75 M EUR)
Foreign subsidiaries	Citec Group consists of companies in Finland, India, Sweden, Norway, France, UK, Germany, Singapore, Saudi-Arabia and Russia.
Contact	Sari Pirhonen Director, Quality Assurance, Citec Group sari.pirhonen@citec.com Ralf Petell, Business Development Manager ralf.petell@citec.com

Member of FinNuclear Association

Citec provides multi-discipline technical solutions and consultancy to the nuclear industry. Combination of nuclear engineering and documentation makes us a strong expert. Our IPMA certified project managers have experience from Nuclear Projects.

Areas of core competence

- Multi-discipline engineering and engineering management services.
- Nuclear documentation services.
- Knowledge of regulatory requirements (IAEA, STUK, SKI, MINATOM).
- Site management services.
- Nuclear quality services.
- Nuclear qualification management services.
- Nuclear requirements management services.
- Procurement services.
- 3D modelling.
- Configuration management services.

References

- Wärtsilä
- Alstom France
- Kraftanlagen Arge
- Forsmark Kraftgrupp AB
- Siemens Turbo Machinery

Certificates: ISO 9001, ISO 14001 OHSAS 18001

Culmentor Ltd.

Culmentor has long experience in implementing investment projects in the energy sector and nuclear power construction.

Areas of core competence

For successful investment project implementation we offer for example:

- support for creating documents and managing the documentation process, respecting nuclear power sector specific requirements and YVL-guides
- project design
- tender preparation
- project management support
- installation and construction supervision

The services can include also e.g. training required by the investments, feasibility studies and tender process development.

With our collaborating partners we have the ability to offer wide-ranging expertise and resources, including translation and interpretation services.

References

Consulting Areva for Olkiluoto 3 -project

Company name Culmentor Ltd.
Address Rautionkatu 2
90400 Oulu
Finland

Tel. +358 40 760 1447
Web www.culmentor.com
Founded 1999
Employees 2
Annual turnover 0.3 M EUR
Foreign subsidiaries Culmentor AB

Contact Jukka Hellgren
Managing Director
jukka.hellgren@culmentor.com

Member of FinNuclear Association

Enmac Oy

Enmac Oy offers expert solutions focusing on technical engineering and product development. We serve our clients by creating innovative solutions incorporating mechanical assemblies, automation, hydraulics and pneumatic. We offer services related to design, consulting, project management, and product development not tied to a specific branch of industry.

From a vantage point that gives us clear awareness of customer needs, we carry out demanding technology-industry-related projects and sub-projects.

Our specialties are:
Mechanical engineering, Product development, Plants and process engineering, Specialist services (e.g. FEM,CFD), Tailored machines, Turnkey product deliveries and Project management.

Areas of core competence

Plant and process engineering for NPPs
Product development for special applications in nuclear waste management systems.

References

NPP engineering experience during 2005-2018 -cumulatively more than 150 000 h
Several demanding product development projects for nuclear applications from 2015

Certificates: ISO 9001, ISO 14001, OHSAS 18001, Fortum, Posiva

Company name Enmac Oy
Address Yliopistonkatu 60 A
33100 Tampere
Finland

Tel. +358 3 252 9111
Web www.enmac.fi
Founded 1983
Employees 70
Annual turnover 7.8 M EUR

Contact Juha Ritala
CEO
juha.ritala@enmac.fi

Jyri Halkola
Business Unit Manager
jyri.halkola@enmac.fi

Member of FinNuclear Association

Lamprotek Oy

Company name Lamprotek Oy
Address Uurrekuja36
01650 Vantaa
Finland

Tel. +358 40 544 7511
Web www.lamprotek.com
Founded 2006

Contact DI Kalle Lampela
Managing Director
kalle.lampela@lamprotek.com

Member of FinNuclear Association

An independent engineering company specialized in nuclear consulting, mechanical design, calculation and inspection services in the areas of machine, equipment, piping, pressure vessel and steel structure design.

Areas of core competence

Consulting, design, strength calculation and inspection of the mechanical components of the reactor building according to Finnish YVL guidelines and to nuclear codes ASME III, RCC-M, KTA and PNAE-G-7.

References

- Inspection of spent fuel encapsulation plant, Preliminary Safety Report (PSAR) of the lifting and transfer machines
- The reactor building of Olkiluoto 3 during 5 years period. Inspection of construction plans for over 200 mechanical components (pressure vessels, pipings, steel structures, cranes and fuel handling machines, EDG etc.)
- Design work, Loviisa 1&2: strength calculation and fatigue analysis of the reactor coolant pump RCP and managing axel shaft controlled leakage seal test plant.
- Olkiluoto 1&2: strength calculation of long vertical deep well pumps.

Certificates: ISO 9001

Neste Engineering Solutions Oy

Company name Neste Engineering Solutions Oy
Address P.O.Box 310
Teknologiantie 36, Kilpilahti
06101 Porvoo
Finland

Tel. +358 10 458 1200
Fax +358 10 458 7347
Web www.neste.com/en
Founded 1956
Employees 1400
Annual turnover 160 M EUR
Foreign subsidiaries Local offices in Netherlands, Sweden, Singapore and UAE.

Contact Patrick von Essen
Managing Director
patrick.essen@neste.com

Kari Kaskes
Sales Director
kari.kaskes@neste.com

Member of FinNuclear Association

Neste Engineering Solutions Oy is a preferred solution provider of high-quality technology, engineering and project services for a wide range of industries in the fields of industrial infrastructure, hydrocarbon and bio industries. We have over 60 years of experience in technology development and industrial investment projects as well as maintenance and performance improvement in Europe, North and South America, Asia and the Middle East. In addition to our home market in the Nordic countries, we are looking to grow in global expanding markets. We employ 1400 professionals globally.

Our activities in the nuclear energy industry are Project Services, Engineering and Consulting Services.

Areas of core competence

Services: Project Management & Control, Procurement, Engineering, Construction Management, Performance Improvement, Consulting Services

References

- Fortum
- TVO
- Fennovoima
- Rolls-Royce Civil Nuclear SAS

Certificates: ISO 9001, ISO 14001, OHSAS 18001

NIPROMEC
Boost for your core business

Company name	Nipromec Oy Ltd
Address	Tallikedonkatu 11 26100 Rauma Finland
Tel.	+358 10 219 300
Web	www.nipromec.com
Founded	2003
Employees	over 200
Annual turnover	15 M EUR
Foreign subsidiaries	Erlangen & Frankfurt, Germany London & Bristol, UK
Contact	Mikko Leppälä Vice President mikko.leppala@nipromec.com
	Akseli Kordelin Key Account Manager akseli.kordelin@nipromec.com

Member of
FinNuclear Association

Nipromec Oy Ltd

Nipromec is an international engineering and consulting company operating in the fields of energy, industry and offshore. In the field of Nuclear Newbuilds, Nipromec has one of the biggest pool of professionals in Finland.
Our flexible and agile services are always tailored to meet the various needs of the customers. The foundations of our operations are expertise, quality and reliability.

BOOST FOR YOUR CORE BUSINESS

Areas of core competence

- Design, Layout, Engineering, Calculation, Analysis, Documentation of Piping and Pipe Supports in the fields of Power Plants.
- Automation, Electrical, IT security and Software in the fields of Power Plants.
- Project Management and Supervision for Piping Disciplines and Interdisciplinary Coordination
- PDMS design and consulting
- Consulting & project services
- Static and dynamic structural analysis, fire protection and nuclear safety, project and construction management
- Resource and Human Resources, Inspection services

References

Delivered on request

Certificates: ISO 9001, ISO 14001, OHSAS 18001

PLATOM

Company name	Platom Oy
Address	Jääkärinkatu 33 50130 Mikkeli Finland
Tel.	+358 44 550 4300
Fax	+358 15 369 270
Web	www.platom.fi
Founded	1998
Employees	45
Annual turnover	4.5 M EUR
Contact	Miika Puukko Managing Director m.puukko@platom.fi

Member of
FinNuclear Association

Platom Oy

Platom is a Finnish family company which serves its clients globally in the nuclear industry. Platom's core business sectors are process modelling & analysis, plant lifecycle services, and licensing and qualification. We also provide specialised equipment deliveries for nuclear power plants and uranium hexafluoride (UF6) handling.

Areas of core competence

- Equipment deliveries for NPPs and nuclear fuel cycle facilities
- Simulation of NPP thermohydraulic processes and control systems
- Radwaste Management, D&D
- Modelling of NPP I&C systems
- Ageing management
- PSAR documentation and evaluation

References

We are currently working with all the operating Finnish NPPs and with Fennovoima, Posiva and Rosatom, covering:

- Development of waste management plans, strategy and processes
- Delivery of fuel handling equipment
- Modernisation of condensate treatment plant
- Commissioning and other on-site support
- Development of NPP process models and analyses
- PSAR documentation

Certificates: ISO 9001, ISO 14001, OHSAS 18001, NQA-1 QL-1

Pöyry Finland Oy

Pöyry provides integrated management consulting, project management, engineering and construction management services for energy companies, contractors, suppliers, investors, multilateral institutions and fuel industry.

Services cover all phases of the nuclear energy value chain from strategic and energy business development to project development and implementation and eventually to plant operation and maintenance. We are a world-leading expert in nuclear power, hydropower, renewable energy, CHP generation, district heat and renewable energy.

Areas of core competence

Pöyry has a nuclear project quality management system audited and approved by several Vendors.

References

- EIAs for Fennovoima, Fortum, TVO and VAE new nuclear power plant projects in FIN and LT
- Engineering and Construction management services for Olkiluoto 3 NPP in Finland
- Nuclear fuel waste disposal expert services for Posiva in Finland
- Technical consulting services for Fennovoima

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name	Pöyry Finland Oy
Address	P.O.Box 4 Jaakonkatu 3 01621 Vantaa Finland
Tel.	+358 10 33 11
Web	www.poyry.com
Employees	Pöyry Group 6000
Annual turnover	Pöyry Group 650 M EUR
Foreign subsidiaries	in 48 countries
Contact	Ilkka Heikkilä President, Energy Ilkka.Heikkila@poyry.com
	Markku Tuomenoja Senior Vice President, Nuclear Power markku.tuomenoja@poyry.com

Member of FinNuclear Association

Sweco Structures

Sweco Structures is a part Sweco Group, which is Europe´s leading engineering and architecture consultancy. Sweco Structures is the market leader of structural engineering in Finland. A functional building requires a safe, healthy and overall optimised frame structure. Sweco's expertise covers all areas of structural engineering, the building types and materials. We are able to find the most lifecycle-efficient solutions for our clients, whether they involve new buildings or renovations

Areas of core competence

Structural engineering

References

- Posiva: Final disposal facility
- Posiva: Used nuclear fuel encapsulation plant
- OL4 NPP: Feasibility Studies
- OL3 NPP, Finland: Struct. design of reactor building incl. common base slab, APC-shell: turbine island, design control & review of the designs, quality assurance & installation supervision tasks, site & traffic planning tasks
- Loviisa 1&2 NPP, Finland +Tianwan 1&2 NPP, China: Struct. design of parts of reactor & other buildings

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name	Sweco Structures
Address	Ilmalanportti 2 00240 Helsinki Finland
Tel.	+358 20 739 3000
Fax	+358 20 739 3001
Web	www.sweco.fi
Founded	2015 (1993)
Employees	750
Annual turnover	70 M EUR
Contact	Ismo Tawast Managing Director ismo.tawast@sweco.fi
	Petri Liukkonen Director petri.liukkonen@sweco.fi

Member of FinNuclear Association

GE Power Finland Oy

General Electric sets the benchmark for innovative, environmentally friendly technologies in the world of power and power transmission. GE provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including hydro, wind, solar, nuclear, gas and coal.

Areas of core competence

GE can supply and integrate all key components for a nuclear power plant.

References

With more the 200 units, 50 % of the world's nuclear power plants are equipped with GE Steam Turbine technology.

In Finland GE has delivered the turbines for Olkiluoto 1 & Olkiluoto 2 nuclear power plants and will deliver a turbine generator secondary loop package to Fennovoima Hanhikivi 1 project.

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name GE Power Finland Oy
Address Kuortaneenkatu 2
00510 Helsinki
Finland

Tel. +358 10 394 11
Web www.ge.com/fi

Contact Tuomo Pöllänen
Senior Project Leadership Manager
tuomo.pollanen@ge.com

Member of FinNuclear Association

Högfors Oy

Company name	Högfors Oy
Address	Örninkatu 15 24101 Salo Finland
Tel.	+358 2 727 7200
Fax	+358 2 727 7201
Web	www.hogfors.com
Founded	1927
Employees	45
Annual turnover	13 M EUR
Foreign subsidiaries	Sales Office in China

Member of FinNuclear Association

New valve factory was opened in 2009. By using the latest technology Högfors Oy raised the production of butterfly valves to an entirely new level. Our valve factory is among the world's most advanced. It specialises in valve technologies used in the process industry and energy production. Högfors Oy has been supplying valves for demanding power plant projects since 1980s, carrying out maintenance and renovation tasks as well as project deliveries for new plants. Exports is more than 80 % of the turnover, with more than 50 destination countries.

Areas of core competence

Högfors Oy's core competence serves the nuclear industry. All our products meet our own and customer's specific requirements. Quality control covers the entire production from raw materials to the final testing. Power plant valves are customised according to the detailed needs of customers. The exceptional quality and durability of Högfors`s Oy valves is guaranteed throughout the product`s life cycle.

References

TVO Olkiluoto 1&2. Fortum Loviisa1&2

Certificates: ISO 9001, ISO 14001, GOSTR, PED14/68/EU

Konecranes Finland Oy

Company name	Konecranes Finland Oy
Address	Koneenkatu 8 05801 Hyvinkää, Finland
Tel.	+358 20 427 11
Fax	+358 20 427 2289
Web	www.konecranes.com
Founded	1910
Employees	16 371
Annual turnover	3 136 M EUR (2017)
Foreign subsidiaries	Konecranes is present at 600 locations in 50 countries.
Contact	Perttu Ruohonen, Sales Support Manager, Nuclear perttu.ruohonen@konecranes.com Ville Majala Sales Support Manager, Nuclear ville.majala@konecranes.com

Member of FinNuclear Association

Konecranes is a world-leading lifting equipment manufacturer serving manufacturing and process industries, nuclear industry, shipyards and harbors with productivity enhancing lifting solutions and services.

Konecranes is a full service company providing design, engineering, manufacturing, testing, installation, maintenance, and outage support. Konecranes maintains an audited and approved nuclear quality control program, and has knowledge regarding nuclear regulatory requirements worldwide.

Areas of core competence

Konecranes is a leading worldwide supplier of cranes, hoists, lifting systems, material handling systems, fuel handling equipment, spent fuel cask transporters, and single failure proof cranes for nuclear installations. Konecranes offers also Consulting services.

References

Konecranes has 1,000’s of installations at nuclear facilities worldwide including complex safety related cranes with capacities in excess of 500 tons, single failure proof cranes, and nuclear fuel handling equipment.

Certificates: ISO 9001

Meka Pro Oy

Meka Pro Oy is a Finnish company with a business strategy to produce high quality and competitive cable support systems for the various construction projects. MEKA® product range includes steel cable ladders, cable trays, wire mesh trays, lighting tracks, steel and aluminum Instal® cable trunkings and socket poles as well as unipro® lighting tracks.

When designing the products, key factors are quality, strength, fluent installing and long life cycle. We are one of the leading manufacturers in the Scandinavia and a key supplier in Baltic Countries as well as in Russia. The products are well represented in the Northern and Central Europe.

Meka Pro Oy has its head office, product development and factories, in Oulu, Finland. The company also has sales office and factory in Saint Petersburg, Russia.

Company name Meka Pro Oy
Address Konetie 25
90620 Oulu
Finland
Tel. +358 207 450 800
Web www.meka.eu
Founded 1953
Employees 100
Annual turnover 32 M EUR
Foreign subsidiaries Russia
Sweden

Contact Antti Vuola
Sales Director
antti.vuola@meka.eu

Julia Antonova
Sales Director -Russia
julia.antonova@meka.eu

Areas of core competence

High quality cable support systems and lighting track intelligence.

References

http://www.meka.eu/en/references.html

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Member of FinNuclear Association

Miilukangas Oy

Miilukangas Oy is a Group, where the subsidiary Miilumachine Oy conducts engineering operations. The engineering shop of Miilukangas Oy is one of the biggest workshops in Finland in terms of machining capability, turnover and workshop size.

The main areas of expertise of our engineering workshop are demanding machining, steel construction and large and heavy steel structures. We supply products in accordance with customer needs – assembled, ready for installation and pre-tested in our workshop. The maximum lifting height of our overhead cranes is 10 meters and the capacity 100 tons.

Our systems have following certifications:
- ISO 9001 Quality Management
- ISO-EN 14001 Environmental Management
- OHSAS 18001 Occupational Health and Safety
- ISO 3834-2 Quality Requirements for Welding
- EN 1090-1:2009+A1:2011, Structural welded steel components and kits

Company name Miilukangas Oy
Address Ruonankatu 1
92100 Raahe
Finland
Tel. +358 10 585 6000
Fax +358 10 585 6001
Web www.miilukangas.fi
Founded 1967
Employees 200
Annual turnover 30 M EUR

Contact Olli Roukala
Sales Manager
olli.roukala@miilukangas.fi

Areas of core competence

- Off-shore industry equipment and components
- Large welded and machined steel structures
- Wide variety of machining

Certificates: ISO 9001, ISO 14001, OHSAS 18001, ISO-EN 3834-2

Member of FinNuclear Association

Peikko Finland Oy

Peikko Finland Oy is 1965 established Finnish family-owned company. Peikko Finland is a part of the international Peikko Group. Peikko is locally present with own sales units in 30 countries and have certified manufacturing units in 7 countries

Peikko is specializing in fastening products for concrete structures and composite structures. Peikko provides innovative solutions to help customers make their building process faster, easier and more reliable.

Areas of core competence

Fastening products such as: anchor plates, rebar couplers, anchor bolts, column shoes, post tensioned bolts and other embedded parts for concrete structures. Peikko is able to supply products according to Customer needs.
Peikko has over 10 years experience in demanding projects in NPP sector.

References

- NPP OL3 (Finland) 2005 - 2014
- NPP Ignalina (Lithuania)
- NPP Oskarshamn (Sweden) 2007-2008
- NPP Temelin (CZ) 2010
- NPP Beznau (Switzerland) 2012-2013
- NPP Hinkley Point C (UK) 2017 ->
- Multiple European other power plant projects

Certificates: ISO 9001, ISO 14001, OHSAS 18001, ISO 3834-2, EN1090

Company name Peikko Finland Oy
Address P.O. Box 104
Voimakatu 3
15101 Lahti
Finland

Tel. +358 20 707 511
Web www.peikko.com
Founded 1965
Annual turnover 50 M EUR
Foreign subsidiaries in 30 countries in Europe, Gulf, APAC and North America

Contact Raimo Lehtinen
Business Director, Peikko Group Oy
raimo.lehtinen@peikko.com

Member of FinNuclear Association

SSAB (Svenskt Stål AB)

SSAB is a Nordic and US-based steel company with a global reach and cost-efficient and flexible production system. SSAB is a leading producer on the global market for Advanced High Strength Steels (AHSS) and Quenched & Tempered steels (Q&T), standard strip, plate and tubular products, as well as construction solutions. SSAB has operations in 50 countries and employs 16 000 people.

Company name SSAB (Svenskt Stål AB)
Address P.O. Box 93
Rautaruukintie 155
92101 Raahe
Finland

Tel. +358 20 5911
Web www.ssab.com
Founded 1978
Employees 16 000

Contact Jarmo Lilja
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Member of FinNuclear Association

Stalatube Oy

Stalatube offers comprehensive stainless steel solutions tailored to customers' needs. We have in-depth knowledge of the material properties, various processing methods, and diverse applications for selected industries.
Our product range for stainless steel hollow sections is the largest globally.

Areas of core competence

- widest dimension range globally of stainless steel square and rectangular hollow sections from same production
- product quality and reliability
- customised solutions and technical support
- global presence
- extensive delivery accuracy
- CE-marking as first manufacturer globally for stainless steel structural tubes

References

Demanding applications and deliveries in Nuclear Power industry, Oil & Gas -, automotive-, marine-, offshore-, process- and construction industry. Eg. supporting structures and frame systems.

Certificates: ISO 9001, ISO 14001, OHSAS 18001, ISO 3834-2

Company name	Stalatube Oy
Address	Taivalkatu 7 15170 Lahti Finland
Tel.	+358 3 882 190
Fax	+358 3 882 1914
Web	www.stalatube.com
Founded	1972
Employees	130
Annual turnover	90 M EUR
Foreign subsidiaries	in NL, USA and India. Sales to 50 countries
Contact	Pasi Uotinen Quality Manager pasi.uotinen@stalatube.com

Member of FinNuclear Association

Wärtsilä Projects Oy

Wärtsilä is a global leader in complete lifecycle power solutions for the marine and energy markets. By emphasising technological innovation and total efficiency, Wärtsilä maximises the environmental and economic performance of the vessels and power plants of its customers.The company has operations in nearly 200 locations in 70 countries around the world.

Areas of core competence

For nuclear applications Wärtsilä provides Diesel Generators with related systems and services.

References

Supply of Emergency Diesel Generators started in mid 1950's. Deliveries based on Wärtsilä 32 started 2010. Reference list upon request.

Certificates: ISO 9001, ISO 14001, OHSAS 18001, KTA 3702, IEEE 387

Company name	Wärtsilä Projects Oy
Address	P.O. Box 252 Puotikuja 1 65101 Vaasa Finland
Tel.	+358 10 709 0000
Fax	+358 6 356 9133
Web	www.wartsila.com
Founded	1834
Employees	about 18 000 (Wärtsilä Corporation)
Annual turnover	4 923 M EUR (Wärtsilä Corporation)
Contact	Lauri Tarkkonen General Manager, Quality Management lauri.tarkkonen@wartsila.com

Member of FinNuclear Association

SITE ACTIVITIES

ARME

Company name	Arme Oy
Address	Äyritie 8 E 01510 Vantaa Finland
Tel.	+358 10 217 0000
Fax	+358 10 217 0001
Web	www.arme.fi
Founded	1974
Employees	210
Annual turnover	30 M EUR
Foreign subsidiaries	OOO Renetor, StP Russia
Contact	Timo Makkonen Sales Director timo.makkonen@arme.fi
	Jack Smeets Business Development Director jack.smeets@arme.fi

Member of FinNuclear Association

Arme Oy

Arme Oy is a leading Finnish service & contracting company, providing reliable and cost-effective industrial insulation and scaffolding services to all main industries.

We offer our services either as separate disciplines or as a comprehensive multidisciplinary turn-key package. We can cover your needs for investment projects, for fast-track turnaround or revamping jobs and/or for long-term framework maintenance contracts.

Furthermore Arme Oy also provides occupational safety, hot work permit as well as scaffolding training services and our company's management systems are certified according to ISO 9001, ISO 14001 and OHSAS 18001 standards.

Areas of core competence

Industrial Insulation and Scaffolding Works.

References

www.arme.fi/company/references

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Asennus N&H Service Oy

- Installation & maintenance
  - pumps
  - valves
  - gearboxes
  - hydraulic components
- Long term agreements
- Supervising
- Workshop in Oulu

Areas of core competence

- Forest, paper and board mills
- Steel, steel mills and production lines
- Mining, pumping stations, conveyors
- Energy, conventional and nuclear power plants
- Environment, water and waste water treatment plants, waste paper handling lines

References

- StoraEnso Oyj (Efora Oy), UPM Oyj
- SSAB and Outokumpu Steel Mills
- Agnico Eagle Finland Oy, Kittilä Mine
- Lahti Energia Oy, Nuclear Power Plants owned by Fortum Oy and TVO Oy.
- Tampereen Vesi Oy, Paperinkeräys Oy

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name Asennus N&H Service Oy
Address Haaransuontie 12
90240 Oulu
Finland

Tel. +358 400 440 999
Web www.nhservice.com
Founded 1984
Employees 50
Annual turnover 2.7 M EUR

Contact Teuvo Rajamäki
Business Promoter, M.Sc (Tech.)
teuvo.rajamaki@nhservice.com

Member of FinNuclear Association

Betamet Oy

We are specialised in demanding industrial machinery, equipment and pipeline installations as well as machine shop operations. We transfer and disassemble machines and complete production lines. We have acquired our versatile know-how over the years in demanding projects in Finland and around the world. Confidential, long-term customer relationships are important to us.

Areas of core competence

Betamet is specialised in industrial machine installations and modernisation projects. Betamet has solid professional skills in the pre-assembly and installation of industrial pressure devices and process pipelines, as well as installations of heat exchangers and pressure vessels.

Our Oulu custom workshop is specialised in processing fine steel.

References

www.betamet.fi

Certificates: ISO 9001, ISO 14001, OHSAS 18001, SFS-EN 1090-2 +A1

Company name Betamet Oy
Address Sälpätie 4
90620 Oulu
Finland

Tel. +358 207 551 700
Fax +358 207 551 706
Web www.betamet.fi
Founded 1993
Employees 220
Annual turnover 28 M EUR

Contact Heikki Kaarakka
Purchaser
heikki.kaarakka@betamet.fi

Member of FinNuclear Association

Bureau Veritas Finland

Bureau Veritas Finland (BV FI) supported by BV European Nuclear Business Unit and services cover the whole life cycle of NPP.

BV FI has an accreditation from FINAS and authorization of STUK to act as an Inspection (IO) and Testing Organization.

BV Finland is supported by the knowledge of the BV worldwide network, which can provide technical experts and a wide experience in any industrial projects with full scope.

The services can be tailored to meet the client or project needs.

Areas of core competence

Design reviews, Site inspection services, second and third party inspections, procurement inspections, expediting and CE-marking.

References

- BV FI and TVO signed 2005 a contract for Inspection services for Olkiluoto 3 project which is still ongoing.
- Fortum Loviisa 1 & 2 procurement inspections for example in France.
- BV Group experience with Areva, Rosatom and EDF is remarkable.

Certificates: ISO 9001

Company name	Bureau Veritas Finland
Address	Sörnäisten rantatie 29 00500 Helsinki Finland
Tel.	+358 10 830 8630
Web	www.bureauveritas.fi
Founded	1856
Employees	66 000
Foreign subsidiaries	Present in 140 countries.
Contact	Ulla Bergström Inspection Coordinator ulla.bergstrom@ fi.bureauveritas.com
	Juhani Rautiainen Industry and Nuclear Manager juhani.rautiainen@ fi.bureauveritas.com

Member of FinNuclear Association

DEKRA Industrial Oy, DEKRA Inspection Oy

DEKRA is an independent inspection company, offering conformity assessment, technical inspection, certification and testing. DEKRA is a Notified Body in accordance with PED, TPED and Construction Product Regulation. DEKRA has approval by STUK for inspection of mechanical equipment and structures.

Our goal is to improve safety, operational reliability, environmental sustainability and productivity of our clients' equipment and structures. Through technical inspections and assessment we help our clients to fulfill these goals. Our group of over 200 experts, our continuous education, training and process development guarantee the best skills and knowledge for the clients' projects.

Areas of core competence

Pressure equipment; NDT and DT services; Inspection of Electrical and Fire Detector Installations; System and Product Certification.

References

Work experience in nuclear power plants in following countries; Finland, Sweden, Germany, Russia, Switzerland, France and Lithuania.

Certificates: EN17020 and others

Company name	DEKRA Industrial Oy, DEKRA Inspection Oy
Address	Tuupakankuja 1 01740 Vantaa Finland
Tel.	+358 9 878 020
Fax	+358 9 878 6653
Web	www.dekra.fi
Founded	1974
Employees	214
Annual turnover	30 M EUR
Contact	Matti Andersson Managing Director of DEKRA Industrial Oy matti.andersson@dekra.com
	Pekka Simpanen CEO of DEKRA Inspection Oy pekka.simpanen@dekra.com

Member of FinNuclear Association

Destia Ltd

Destia is a Finnish privately owned infrastructure and construction service company. We build, maintain and design industrial and traffic environments. Our services cover the whole spectrum, from comprehensive overground operations to subterranean construction.

An extensive network of regional offices ensures that Destia is always close to its customers, both in Finland and the surrounding areas.

Areas of core competence

Project management of complex projects, construction of traffic and yard areas, concrete structures, earth construction, distribution networks and transmission lines, district heating transmission lines, quarrying, land and geo survey, positioning services, infrastructure planning and design.

References

OL 3
- TVO: rock construction consulting / Turbine Island outdoor earthing grid infra works
- AREVA: quarrying and excavation works
- Siemens: 400 kV substation's earth and foundation works

ONKALO
- Posiva: tunnel excavation, grouting, bolting, and shotcreting

HANHIKIVI
- ongoing

Certificates: ISO 9001, ISO 14001

Company name	Destia Ltd
Address	P.O. Box 206 Neilikkatie 17 01301 Vantaa Finland
Tel.	+358 20 444 11
Fax	+358 20 444 2297
Web	www.destia.fi
Founded	2008 (1925 as Finnish Road Administration)
Employees	1600
Annual turnover	500 M EUR
Contact	Jouni Karjalainen Senior Vice President jouni.karjalainen@destia.fi Arto Ruotsalainen Executive Vice President arto.ruotsalainen@destia.fi

Member of FinNuclear Association

Franz Dietrich GmbH

Franz Dietrich GmbH is one of the leading companies in the field of corrosion protection, building protection and industrial painting in Germany. Over 70 years of technological & market experience and proven professionalism are the secret of our strong presence on the domestic and international market.

We work as a professional partner for all kind of protective painting and coating works from consulting the costumer during the planning until the successful conclusion of the projects.

Areas of core competence

Corrosion protection, building protection, industrial painting, painting, thermal and composite thermal insulation systems

References

- Olkiluoto 3 NPP NI, main contractor for all steel and mineral painting and coating works
- Several nuclear power plants, including partly maintenance in Germany: Krümmel, Stade, Niederaichbach, Brokdorf, Grohnde, Isar 1, Unterweser, Brunsbüttel, Biblis
- Long term contracts with Audi AG, Volkswagen AG, Daimler AG, Bugatti AG
- Airport London-Heathrow, Bosch, Continental, EADS

Certificates: ISO 9001, SCC**

Company name	Franz Dietrich GmbH
Address	Völgersraße 11 30519 Hannover Germany
Tel.	+358 44 764 27 44
Fax	+49 511 879 68 88
Web	www.dietrich.de
Founded	1947
Employees	380
Annual turnover	36 M EUR
Contact	Benjamin Heft Project Manager benjamin.heft@dietrich.de Irina Thornagel Key Account Manager, Nordic Countries irina.thornagel@dietrich.de

Member of FinNuclear Association

Helaakoski E. Oy

E. Helaakoski Oy provides wide-ranging heavy lifting solutions to professionals of various industries across Finland and Northern Europe. With decades of experience in the fields of lifting and hoisting we have consolidated our position among the leading heavy lifting companies in Finland. E. Helaakoski Oy is a shareholder in Fennovoima.

Company Head office is located in Raahe, only 15 km from the Hanhikivi NPP site and having a subsidiary in Pyhäjoki ensures a quick and efficient operation of lifting projects.

Depots:
Raahe Pyhäjoki Oulu Kokkola Pietarsaari Vaasa Porvoo Kouvola Hämeenlinna Lappeenranta Imatra

Areas of core competence

Heavy lifting and hoisting services. Crane hire, earthmoving & excavation, transportation and HIAB truck mounted cranes, project management & implementation.

References

- National and international companies in the fields of petroleum, energy production, construction, infrastructure and heavy industry
- Lifting and installation of concrete elements to Olkiluoto 3
- Hanhikivi NPP

Certificates: ISO 9001

Company name	Helaakoski E. Oy
Address	Kirkkokatu 43 A 6 92100 Raahe Finland
Tel.	+358 4 249 821
Web	www.helaakoski.com
Founded	1958
Employees	100
Annual turnover	18 M EUR
Contact	Jarmo Helaakoski CEO jarmo.helaakoski@ helaakoski.com
	Raimo Tervapuro Transport Manager raimo.tervapuro@ helaakoski.com

Member of FinNuclear Association

Inspecta Oy

Kiwa Inspecta offers a broad range of testing, inspection, certification, consulting and training services with operations in the Nordic and Baltic region. Kiwa Inspecta supports all nuclear clients to achieve their safety, quality and sustainability targets during all phases of the NPP projects and life cycle.

We deliver non-destructive testing (NDT) services and resources to projects and outages. We develop and qualify new methods to support reliable plant operations. Inspection services cover a range of equipments and systems, including third-party design reviews. We certify management systems, products and personnel. Our consultation experts support the development of plant operations and projects.

Areas of core competence

Testing, Inspection, Quality & Supplier control, Certification, Training & Technical consultancy

References

Kiwa Inspecta has supported the nuclear industry from the beginning in Finland and Sweden. We are involved in all NPP outages, major modernization and new plant construction projects.

Certificates: Accreditation

Company name	Inspecta Oy
Address	P.O. Box 1000 Sörnäistenkatu 2 00581 Helsinki Finland
Tel.	+358 10 521 600
Fax	+358 10 521 6211
Web	https://www.inspecta.fi/en/
Founded	1998
Employees	1600
Annual turnover	180 M EUR
Foreign subsidiaries	Sweden, Norway, Denmark, Estonia, Latvia, Lithuania, Poland, Holland
Contact	Jukka Verho Commercial Director, Finland Jukka.Verho@inspecta.com
	Jari Haavisto Country Manager, Finland jari.haavisto@inspecta.com

Member of FinNuclear Association

Insta Automation Oy

Insta Automation provides comprehensive electrical automation services with the confidence of a market leader. We specialize in the design, engineering, manufacture, installation and maintenance of electrical automation for industrial applications and various processes. We cover the entire life-cycle of the investment from pre-engineering to modernization, providing both turnkey solutions and individual services.

Areas of core competence

Design, engineering, manufacture, installation and maintenance of electrical automation for industrial applications

Certificates: ISO 9001

Company name	Insta Automation Oy
Address	Sarankulmankatu 20 33901 Tampere Finland
Tel.	+358 20 771 7111
Fax	+358 20 771 7122
Web	www.insta.fi
Founded	1960
Employees	530
Annual turnover	72 M EUR
Contact	Jarno Pitkänen Business Unit Director, Installation Division jarno.pitkanen@insta.fi
	Mikko Tanner Project Manager, Installation Division mikko.tanner@insta.fi

Member of FinNuclear Association

Kymsol (Kymppi Group)

Kymsol is the leading partner for industrial services. We provide our insulation, scaffolding and surface treatment know-how for project and maintenance sites all over the world. We have insulated pipelines for several different process. Our flexible scaffolding and weather protection services ensure that projects are completed quickly and safely. Our expertise in fire protection and corrosion protection has long track record for high quality from rough conditions example in Atlantic Ocean offshore and onshore.

Areas of core competence

Industrial Insulation, scaffolding and weather protection, surface treatment and firebreak and steel structure passive fire insulation. Experience example from power plants, offshore and onshore in refineries, oil rigs, FSPO ships, subsea.

References

Among others: Andritz, Valmet, PVO, TVO, Fortum, Voith, Siemens, Alstom, Vattenfall, Metso, Outotec, Neste Oil, Shell, Metsä Group, Borealis, Aker Solutions, Kemira, AGA, Innogas, Amec Foster Wheeler, StoraEnso, UPM, Gasum, Kraton, SSAB

Certificates: ISO 9001, ISO 14001, OHSAS 18001, HSEQ-Assessment

Company name	Kymsol (Kymppi Group)
Address	Kymsol Finland Konetie 20 90620 Oulu
	Kymsol Norway Postboks 34 5346 Ågotnes
Tel.	+358 201 881 100
Web	www.kymsol.com
Founded	1982
Employees	Over 700
Annual turnover	60 M EUR
Foreign subsidiaries	Kymsol SpA Chile
Contact	Janne Koskelainen Director of Corporate Sales / CSO janne.koskelainen@kymsol.com
	Arto Laasanen Sales Manager arto.laasanen@kymsol.com

Member of FinNuclear Association

Oulun Energia Urakointi Oy

Oulun Energia Urakointi is part of Oulun Energia Group. Our main services are engineering, maintenance and construction of power distribution networks, lightning solutions and intelligent transport systems. We provide comprehensive services for the use and maintenance of switchgears, substations and transformers. Our experienced specialists, solid project management expertise and special equipment enable us to perform challenging repair and maintenance tasks without interrupting client's operation or power supply. We help our clients take their electrical safety and certainty under control.

Areas of core competence

CONSTRUCTION AND MAINTENANCE OF POWER DISTRIBUTION NETWORKS:
- Construction of 0.4–20 kV power distribution networks

STREET AND OUTDOOR LIGHTING:
- Lighting solutions for businesses
- Design, construction and maintenance
- Operational management services

TRAFFIC LIGHTS AND TELEMATIC SYSTEMS:
- Design, construction and maintenance
- Camera surveillance systems

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name Oulun Energia Urakointi Oy
Address Kasarmintie 6
90100 Oulu
Finland
Tel. +358 44 703 3630
Founded 2011
Employees 100
Annual turnover 20 M EUR

Contact Ilkka Koskela
CEO
ilkka.koskela@oulunenergia.fi

Leanna Beris
leanna.beris@oulunenergia.fi

Member of FinNuclear Association

Prohoc Oy

Prohoc provides industrial project business related project management, consulting, resourcing and documentation engineering services. We operate mainly within energy, mining, cargo-handling, oil & gas and process industry projects.

Our Experts work in the fields of Consulting, Supervising construction and commissioning works, Project Administration and Project Documentation Services within our customers' projects.

We promise to be our client's best resource.

Our processes are certified by ISO's Quality 9001, Environment 14001 and OHSAS 18001 standards.

Areas of core competence

Project management, Engineering and Consulting services in areas of Electrical, Automation, Mechanical, HSEQ, Logistics, Civil, Project / Site Management and Project Documentation Services.

References

Biggest clients: Wärtsilä, Neste Jacobs, Valmet, ABB, Metso, Andritz and Cargotec. Extensive project experience from every continent since 1996. Strong knowhow in different power plant technologies.

Certificates: ISO9001:2015, environmental policy ISO14001:2015 and occupational health and safety ISO45001:2018, Achilles Power&Tec

Company name Prohoc Oy
Address Virtaviiva 8 F
65320 Vaasa
Finland
Tel. +358 6 315 7700
Fax +358 6 315 7701
Web www.prohoc.fi
Founded 1996
Employees 150
Annual turnover 12.5 M EUR

Contact Iiro Wesslin
Business Development Director
iiro.wesslin@prohoc.fi

Matti Manner
CEO
matti.manner@prohoc.fi

Member of FinNuclear Association

Ramirent Finland Oy

Ramirent Finland Oy Project Business Unit's comprehensive service comprises the rental of scaffolds and weather shelters and their installation. If necessary, the scaffolds and weather shelters will be delivered to the site, and Project Business Unit's installation experts will assemble and dismantle them, thus allowing the customer to focus on normal operations. Please also familiarise yourself with Ramirent Group's website.

Company name Ramirent Finland Oy
Address Tapulikaupungintie 37
00751 Helsinki
Finland

Tel. +358 20 750 200
Fax +358 20 750 2711
Web www.ramirent.fi
Founded 1955
Employees 570
Annual turnover 191 M EUR

Contact Mika Eskola
Director
mika.eskola@ramirent.fi

Member of FinNuclear Association

Areas of core competence

Planning, installation, delivery and transportation of scaffolds and weather shelters. Scaffolding and related legislation training.

References

Collaborations in Finland:
- Olkiluoto OL 3, Olkiluoto OL 1 and OL 2 - yearly maintenance projects
- Bio-Powerplants Närpiö, Alavus, Kauhajoki

The main supplier
- Steel Industry; Outokumpu Tornio, Rautaruukki Raahe
- Chemical Industry – Neste Oyj Kilpilahti, Borealis Polymers Oy Kilpilahti, Yara Siilinjärvi and Uusikaupunki.
- Scaffolding supply for the maintenance outage of the power plant
- Tahkoluoto, Kaskinen, Kristiina

Certificates: ISO 9001, ISO 14001, OHSAS 18001

RTK-Palvelu Oy

RTK-Palvelu Oy is one of the leading companies in Property Maintenance and Cleaning services in Finland. We have served a growing number of satisfied customers for 40 years. We also provide HR services in different fields.

Our services include:
- industrial cleaning, process cleaning, pressure washing
- suction cleaning and multifunctional truck services
- structural maintenance and instrument services
- technical maintenance and energy conservation services
- indoor and outdoor facility maintenance services
- waste management services including hazardous waste
- technical inspections
- repair and small construction work, contract painting
- floor mat service, textile rental and furniture service
- staff rental

ISO 9001 ISO 14001 and OHSAS 18001 certificates covering all functions. Certified by DNV

Company name RTK-Palvelu Oy
Address Papinhaankatu 8
26100 Rauma
Finland

Tel. +358 29 029 3000
Fax +358 9 4774 5112
Web www.rtkpalvelu.fi
Founded 1972
Employees 3300
Annual turnover 111 M EUR

Contact Kai Olsbom
COO / Area Director
kai.olsbom@rtkpalvelu.fi

Jani Pelamo
District Manager
jani.pelamo@rtkpalvelu.fi

Member of FinNuclear Association

Areas of core competence

Property Maintenance and Cleaning services, HR services

References

TVO (Olkiluoto 1,2,3); Kraftanlagen; Franz Dietrich AG; STX Finland; Seaside Industry Park, Fortum LO1 and LO2

Certificates: ISO 9001, ISO 14001, OHSAS 18001

SGS Fimko Oy

SGS is the world's leading inspection, verification, testing and certification company. We are recognized as the global benchmark for quality and integrity. With more than 95,000 employees, we operate a network of more than 2,400 offices and laboratories around the world. In Finland SGS employs about 200 professionals.

SGS Finland is a combination of two companies – SGS Finland Oy and SGS Fimko Oy. We have been operating in Finland since 1924 and today we provide diverse inspection, testing, verification and certification services for wide range of industries.

SGS Fimko Oy has been accredited by FINAS for calibration, certification, inspection and testing services. We have been approved as an authorized inspection organization by STUK.

Areas of core competence

Calibration, Certification, Inspection, Testing, Training

References

SGS Fimko Oy provides conformity assessment services to a large variety of international and Finnish companies and other organizations, for example Nokia, ABB, Finnish Defense Forces and TUKES

Certificates: Accreditations

Company name SGS Fimko Oy
Address Särkiniementie 3
00210 Helsinki
Finland

Tel. +358 9 6963 443
Web www.sgs.fi
Annual turnover 14.6 M EUR

Contact Justus Hirn
Technical Manager
justus.hirn@sgs.com

Member of FinNuclear Association

SRV Group Plc

SRV is the leading project management contractor in Finland that develops and builds commercial centers and business premises, residential units as well as infrastructure, industrial and logistics projects. Apart from Finland, the company operates also in Russia.

Areas of core competence

Project development and planning as well as state-of-the-art project management competence of complex megaprojects. The competitive edge of SRV is based on efficient implementation of projects by means of the SRV Approach and on strong project development expertise. SRV's mission is to improve quality of life through sustainable solutions for the built environment.

References

Commercial centers, business premises, residential areas, logistic centers and industrial plants in Finland, Russia and in the Baltic countries. For more information, please visit SRV's home page: www.srv.fi

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name SRV Group Plc
Address P.O. Box 555
Tarvonsalmenkatu 15
02601 Espoo
Finland

Tel. +358 201 455 200
Web www.srv.fi
Founded 1987
Employees 1000
Annual turnover 1100 MEUR

Contact Juha Pekka Ojala
President and CEO
jp.ojala@srv.fi

Juha Toimela
SVP, Operations in Finland
juha.toimela@srv.fi

Member of FinNuclear Association

Suomen Maastorakentajat Oy

Company name Suomen Maastorakentajat Oy
Address Kalajoentie 6
85100 Kalajoki
Finland

Tel. +358 40 4861521
Fax +358 20 750 8057
Web www.maastorakentajat.fi
Founded 1994
Employees 300
Annual turnover 90 M EUR

Contact Roman Polin
roman.polin@
maastorakentajat.fi

Member of FinNuclear Association

Andament Group operates in infrastructure construction, which is divided into different sectors:

Environmental and concrete construction. Construction of ways and roads. Asphalting and other surfacing services. Development and production of steel structures. Traffic management and supervision, ITS-systems and services.

We offer a complete range of services, from inclusive overground operations to subterranean construction. Andament Group's extensive services rely on the steady expertise of our employees, and our target is to serve our clients in the best possible ways.

Areas of core competence

Infrastructure construction, Water treatment and industrial facilities, Surfacing, mineral aggregates, Engineering workshop, Intelligent traffic

References

- The construction of roads and bridges and their paving.
- Power plants.
- Steel and concrete constructions.
- Traffic and pavement analysis.

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Telatek Oy

Company name Telatek Oy
Address Telatek Oy
Konepajantie 1
93400 Taivalkoski, Finland

Telatek Service Oy
Varvintie 53
92100 Raahe, Finland

Tel. +358 207 347 040
Fax +358 88 297 701
Web www.telatek.fi
Founded 1976
Employees 130 (Group 235)
Annual turnover 14 M EUR (Group 24 M EUR)

Contact Juha Iiponen
CEO
juha.iiponen@telatek.fi

Juha Rintala
Technical Manager
juha.rintala@telatek.fi

Member of FinNuclear Association

Telatek Group is a leading supplier of Field and Workshop Services.

Telatek Service Oy offers cover maintenance, repair and installations of machinery and equipment e.g. when customers have problems with erosion, corrosion and wear. Our strengths are versatile implementations of Mobile Technologies; Thermal spraying, Welding and Machining.

Telatek Service has also extensive experience in non-destructive inspections. Our NDT operations are FINAS-accredited and approved also by STUK.

Telatek Oy Workshop Services have the strengths in heavy weight manufacturing and machining of heavy and complex products. Single super component weight can be up to 120 tons.

Areas of core competence

Versatile implementations of Mobile Technologies, Heavy workshop manufacturing and machining, NDT inspections, Quality control, Measuring services and installations.

References

NPPs in Loviisa, Olkiluoto, Paks (Hun), Sosnovyborg(Ru), Kola (Ru), Cernavoda (Ro)

Certificates: ISO 9001, ISO 14001, OHSAS 18001, ISO 3834-2, EN 1090

Telinekataja Oy

Telinekataja Oy is the largest company specializing in scaffolding and weather protection services in the Nordic Countries. The company has over 50 years of experience. Telinekataja serves construction industry and various other industries with scaffolding design, rental and installation services. Telinekataja also specializes in scaffolding services needed for power plant maintenance work. The parent company Telinekataja Oy has also subsidiaries operating in Russia and in Estonia. Further, the Company has a branch in Sweden.

Areas of core competence

Telinekataja plans, erects, dismantles and supplies scaffolding and weather protective systems.

Our mission “Safety and Productivity on Site” describes our services in all.

References

Telinekataja has taken part in building of all nuclear power plants in Finland and also supplies scaffolding for annual maintenance work:

- Olkiluoto NPP 1, 2 and 3 for TVO Teollisuuden Voima Oy
- Loviisa NPP 1 and 2 for Fortum Power and Heat Oy

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name	Telinekataja Oy
Address	P.O. Box 1 (Pihatörmä 1B) 02241 Espoo Finland
Tel.	+358 207 932 500
Fax	+358 207 932 539
Web	www.telinekataja.fi
Founded	1965
Employees	250
Foreign subsidiaries	OOO Telinekataja, Russia AS Telinekataja, Estonia
Contact	Aki Sirelius COO aki.sirelius@telinekataja.fi
	Jari Liitomaa Area Director jari.liitomaa@telinekataja.fi

Member of FinNuclear Association

Econia Ltd.

A-Insinöörit Civil Oy

A-Insinöörit Civil Oy (fromer SROY) is a multi-discipline engineering consultancy specialised in nuclear waste management services and underground engineering. With over 35 years of experience in nuclear waste disposal, company provides a complete range of solutions for nuclear waste management as well as specific research and engineering design services for nuclear waste disposal.

Areas of core competence

Site Selection,Site Characterisation,Repository Technology,Cost Estimation, Conceptual Design, Long Term Safety, Safety Case,Licensing Support, Layout Design, Rock Engineering, Host Rock Classification, Engineered Barrier Systems, Buffer & Backfill, Foreign Material Estimation, Monitoring, Biosphere Assessment, Requirement Management, Description of Disposal System

References

Key Clients: Posiva, TVO, Fennovoima, SKB, NWMO, JAEA,KORAD, KEPCO E&C, NDA, SURAO.

Key Projects: Olkiluoto SNF Repository, Onkalo URL and LILW (VLJ) facilities in Finland, Forsmark HLW repository in Sweden, Wolsong LILW Repository in South Korea

Certificates: ISO 9001

Company name	A-Insinöörit Civil Oy
Address	Bertel Jungin aukio 9 00600 Espoo Finland
Tel.	+358 207 911 888
Web	www.ains.fi
Founded	1962
Employees	150
Annual turnover	10 M EUR
Contact	Fionan O'Carroll Project Manager, International Operations fionan.ocarroll@ains.fi

Member of FinNuclear Association

AMPKO Oy

KeeplyShields are Ampko Oy´s high quality, flexible, CL-free lead blankets for radiation protection. The shieldings are constructed by encapsulating the lead within a very strong, high temperature and good chemical resistant PU-outer cover for excellent protection and durability. KeeplyShields are flexible and they are made of solid lead sheets.

Areas of core competence

Polyurethane covered and CL-free flexible lead blankets for radiation protection.

References

Nuclear Power Plants in Europe

Certificates: ISO 9001

Company name AMPKO Oy
Address P.O. Box 53
00701 Helsinki
Finland
Tel. +358 9 258 760 60
Fax +358 9 258 760 62
Web www.keeply.com
Founded 1994

Contact Pekka Pohjonen
CEO
jp@keeply.com

Member of FinNuclear Association

AVARN Security Oy

AVARN Security is a strategic and responsible security partner for enterprises and public sector organizations in Finland and Sweden. We provide diverse range of security solutions including intelligent security technology, surveillance and manned security.

In Finland, we operate nationwide employing 3 500 committed security professionals. AVARN Security is a part of the Sector Alarm Group. For more information www.avarn.fi and www.sectoralarm.com

Areas of core competence

Integrated security solutions and processes from risk assessment to planning, delivering and maintaining.

References

We provide security solutions for several organizations with high level safety and security needs. Please contact us for further information.

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name AVARN Security Oy
Address Pitäjänmäentie 14
00380 Helsinki
Finland
Tel. +358 204 2828
Web www.avarn.fi
Employees 3500

Contact Juha Murtopuro
Managing Director
juha.murtopuro@avarn.fi

Jussi Virtanen
Director, Security operations
jussi.virtanen@avarn.fi

Member of FinNuclear Association

Baltic Nuclear Consulting Group BNCG Oy

Company name	Baltic Nuclear Consulting Group BNCG Oy
Address	Visit Address: Puunaulakatu 3 28100 Pori Finland Postal Address: Rantakoivuntie 6 38600 Pori Finland
Tel.	+358 40 562 3060
Web	www.bncg.fi
Founded	2011
Contact	Ari Numminen Senior Partner ari.numminen@bncg.fi

Member of FinNuclear Association

Our mission is to provide high-level consulting services to our Customers in large, demanding and complex investment projects. Our main business area is NPP Projects.

We have a strong working experience from demanding projects, from the entire life cycle and all project phases. Our personnel has been working with NPP construction projects since 2003.

Our services range from single expert assignments to turn-key management of larger scopes covering all engineering disciplines. We participate in all phases of a project.

Areas of core competence

We have excellent skills in:

- Project Management
- Quality Management
- Health-, Safety- and Environmental Management
- Risk Management
- Supply Chain Management
- Design Management
- Inspections and Assessments
- Development and Improvement of Management Processes

References

Nuclear Power Plants in Europe.

Certificates: Certified Auditors

Barona Industries Ltd

Company name	Barona Industries Ltd
Address	Töölönlahdenkatu 3 B 00100 Helsinki Finland
Tel.	+358 20 198 3460
Web	www.barona.fi/en/
Founded	1999
Annual turnover	32 M EUR
Foreign subsidiaries	Sweden, Norway, Poland, Spain, Estonia and Russia
Contact	Juho Nojonen Divisional Director juho.nojonen@barona.fi

Member of FinNuclear Association

Barona is a multi-industry full service HR service provider. The Barona story began within the construction industry, but has since evolved into logistics, industry, IT, customer care, sales, HR and finance operations. Barona provides its clients with HR services and solutions to meet needs at all stages of working life. Barona has a nationwide office network in Finland. Barona also operates in Sweden, Norway, Poland, Spain, Estonia and Russia.

Areas of core competence

Personnel Services and Development, Recruitment, Staffing, International recruitment, Outplacement, Vocational Rehabilitation

References

Kevitsa Mining, VAK, Normek, Nordic Gold, Sotkamo Silver

BERGMANN

Bergmann Attorneys at Law

Bergmann Attorneys at Law is a Helsinki-based boutique law firm specialized in the construction, energy, and infrastructure industries.

Company name Bergmann Attorneys at Law
Address Pohjoisesplanadi 35 E
00100 Helsinki
Finland
Tel. +358 10 339 8800
Web www.bergmann.fi
Founded 1992

Contact Peter Jaspers
Partner
peter.jaspers@bergmann.fi

Claudia Greiner
Partner
claudia.greiner@bergmann.fi

Member of FinNuclear Association

Areas of core competence

Bergmann advises its core clientele from the construction and/or energy clusters regarding legal aspects of

- delivery, erection and commissioning of heavy machinery and turn-key power plants, onshore and off-shore.
- energy projects, including administrative and environmental regulations and permitting as well as financing arrangements and M&A
- energy related infrastructure projects from smart grids to sustainable city development.

References

- Hamina LNG Oy
- Kraftanlagen München GmbH
- Kraftanlagen ARGE OL3
- wpd europe GmbH / wpd AG
- E-Group, a.s.
- Muntilan Energia Oy
- Posion Energia Oy
- APOprojekt GmbH
- Technip USA, Inc.
- Technip Offshore Finland Oy
- Eisenmann Anlagenbau GmbH & Co. KG

OULU | BusinessOulu

BusinessOulu, City of Oulu

Driver of business and industries BusinessOulu promotes the prosperity and competitiveness of companies in the Oulu region with the ultimate goal of creating new jobs. We act as a connecting link between various local industry and business networks. BusinessOulu is owned by the City of Oulu.

Company name BusinessOulu, City of Oulu
Address Hallituskatu 36
90100 OULU
Finland
Tel. +358 44 703 1320
Web www.businessoulu.com
Employees 130

Contact Jouni Kähkönen
Liaison Director
jouni.kahkonen@
businessoulu.com

Member of FinNuclear Association

Areas of core competence

BusinessOulu is the biggest business development unit in Northern Scandinavia.

We provide business contacts, area information, relocation and invest-in services for companies.

Whether in need of move-in-ready office premises or a large plot of land for your company's use, we help you find the best solution.

Our database includes hundreds of companies in Oulu. BusinessOulu can help you find local business partners.

Confederation of Finnish Construction Industries RT

Company name Confederation of Finnish Construction Industries RT
Address P.O. Box 381
00131 Helsinki
Finland
Tel. +358 9 1299 1
Fax +358 9 1299 252
Web www.rakennusteollisuus.fi

Contact Aleksi Randell
Director General
aleksi.randell@
rakennusteollisuus.fi

Three-quarters of Finland's national wealth lies in the built environment. The construction industry provides jobs for a quarter of a million people and the construction sector output is almost 29 billion €. CFCI is the central organisation representing over 2600 companies of building construction, construction product industry, infrastructure, surface contractors and HPAC contractors.

Areas of core competence

CFCI promotes member companies' business and high-quality construction by observing the needs of the environment and society. It provides assistance in matters related to business,R&D, standardisation and the labour market. It also produces a wide range of research findings and statistics.

References

CFCI looks after the interest of the industry and provides the membership services, seeking to create a framework conductive to business and representing the industry interests in shaping the economic and labour market policies,including handling of the collective bargaining.

Member of FinNuclear Association

Econia Ltd.

Company name Econia Ltd.
Address Peltotie 20
28400 Ulvila
Finland
Tel. +358 2 630 5338
Fax +358 2 630 5320
Web www.econia.com
Founded 1996
Employees 95
Annual turnover 1 M EUR for Int.serv.

Contact Heimo Alatalo
Director/ Int. Services
heimo.alatalo@econia.com

Jari Niinisalo
HR-Manager
jari.niinisalo@econia.com

ECONIA is your partner in investing and entering the Finnish market. We offer international business services, such as financial administration, human resources, and a local representative service under the same roof. Our rock-solid experience from international industrial projects and knowledge of local legislation will aid you to fulfill all your obligations under Finnish law.

Areas of core competence

experienced and reliable partner for foreign subcontractors
financial administration (payroll, accounting, company set-ups)
local representative for posted workers
tax counselling (VAT and permanent establishment)
interpretation of Finnish Contractors liability act and collective agreements
temporary staffing and recruitment services

References

Extensive experience from industrial projects in Finland having served more than 100 foreign companies. Strong participation in Olkiluoto and Hanhikivi nuclear power plants. Participation at various construction sites and shipyards.

Certificates: ISO 9001

Member of FinNuclear Association

Enersense International Oyj

ENERSENSE is nuclear resource and project management company specialized in finding and auditing supply chain companies and in offering HR-solutions for demanding nuclear construction sites, nuclear power facilities and major companies within the energy sector around the world. Enersense has been involved the OL3 NPP project at every phase of the project from the start.

Enersense offers highly qualified professionals in the energy industry. With the wide resource and service network, we are capable of acting promptly and finding custom solutions to serve each client individually.

Areas of core competence

- Administrative and consultancy service
- Occupational service
- Information management
- Project management
- Quality assurance
- Resources and subcontracting

References

Areva, Siemens, Samsung, Wärtsilä, Outotec, Hitachi, Mitsubishi, Bilfinger Piping Technologies, DCNS, First Quantum Minerals, ENSA, Gasum, Technip Offshore Finland, Lausitzer Stahlbau Ruhland, Freyssinet

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name	Enersense International Oyj
Address	Konepajanranta 2 28100 Pori Finland
Tel.	+358 2 633 7722
Fax	+358 2 633 8603
Web	www.enersense.com
Founded	2004
Employees	662 (average 2017)
Annual turnover	47 M EUR (2017)
Foreign subsidiaries	8 in Europe
Contact	Jussi Holopainen Managing Director jussi.holopainen@ enersense.com
	Pekka Antti-Roiko Area Manager pekka.antti-roiko@ enersense.com

Member of FinNuclear Association

Fennovoima Oy

Fennovoima was established in 2007 by electricity consumers: Finnish companies and municipalities in need of safe, reliable and climate friendly energy supply.

Fennovoima will build its Hanhikivi 1 nuclear power plant to a greenfield site in Pyhäjoki in Northern Finland.

Fennovoima's Hanhikivi 1 nuclear power plant is a huge investment, creating electricity at a stable price for its owners. The economic and employment effects of the project extend throughout Finland. The nuclear power plant will strengthen Finland's energy self-sufficiency and helps to achieve our climate targets.

Areas of core competence

Nuclear Safety and Technology

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name	Fennovoima Oy
Address	Salmisaarenaukio 1 00180 Helsinki Finland
Tel.	+358 207 579 200
Web	www.fennovoima.fi
Founded	2007
Employees	370
Contact	Juha Miikkulainen Development Manager juha.miikkulainen@ fennovoima.fi

Member of FinNuclear Association

FinNuclear Oy

FinNuclear Oy is a company fully owned by FinNuclear Association for the purpose providing services to Finnish nuclear energy industry.

The company's main activities are to provide training, marketing support and project coordination services. FinNuclear Oy may also engage in other tasks such as publications, information services and consulting.

Areas of core competence

Industrial support in the nuclear energy field, such as marketing, training, project coordination, event arrangements and communication services.

Company name	FinNuclear Oy
Address	Eteläranta 10 00130 Helsinki Finland
Tel.	+358 44 710 2060
Web	www.finnuclear.fi
Founded	2013
Annual turnover	0.3 M EUR
Contact	Leena Jylhä Managing Director leena.jylha@finnuclear.fi

Member of FinNuclear Association

Framatome

Framatome is a major international player in the nuclear energy market recognized for its innovative solutions and value-added technologies for designing, building, maintaining, and advancing the global nuclear fleet. The company designs, manufactures, and installs components, fuel and instrumentation and control systems for nuclear power plants and offers a full range of reactor services.

With 14,000 employees worldwide, every day Framatome's expertise helps its customers improve the safety and performance of their nuclear plants and achieve their economic and societal goals.

Framatome is owned by the EDF Group (75.5%), Mitsubishi Heavy Industries (MHI – 19.5%) and Assystem (5%).

Company name	Framatome
Address	Jungmansgatan 12 211 11 Malmö Sweden
Web	www.framatome.com
Founded	1958
Employees	14 000 employees worldwide
Annual turnover	3 300 M EUR
Contact	Milo Alani milo.alani@framatome.com

Member of FinNuclear Association

KPMG IT Certification Ltd.

World leading cyber security consulting firm, providing security strategy guidance of the dynamic and complex relations among many contributing factors inside nuclear industry.

Areas of core competence

KPMG IT Certification Ltd has the official approval from Finnish Communications Regulatory Authority (FICORA). Company has the accreditation from FINAS (Finnish Accreditation Service) to act as an information security inspection body according to the legislation on information security inspection bodies. KPMG IT Certification Ltd operates under authority supervision and we comply with the competence requirements regarding independence and personnel know-how set for inspection bodies as well as the information security requirements concerning physical facilities and customer information.

We are a part of KPMG's global network of member firms and operate as independent Finnish owned company with capability to combine multi-disciplinary advisory, technology, and cyber approach with deep and wide scale industry knowledge

Company name	KPMG IT Certification Ltd.
Address	Töölönlahdenkatu 3 A, 00100 Helsinki Finland
Tel.	+358 20 760 3000
Web	www.kpmg.fi
Founded	2012
Employees	10
Annual turnover	0.7 M EUR
Foreign subsidiaries	KPMG global network of member firms
Contact	Jarno Karell Advisory Manager jarno.karell@kpmg.fi Pauli Wihuri Senior Manager pauli.wihuri@kpmg.fi

Member of FinNuclear Association

Marra Oy

Marra offers highly qualified professionals and welding machines for renting in the energy industry. With the wide resources the company is capable of acting promptly and finding custom solutions to serve each clients requirements . We are specialised in demanding industrial boiler, machinery, and pipeline welding and installations. We have been partner in many projects over the world.
Our head office is located in Raahe only 15 km from the Hanhikivi.

Areas of core competence

- Welding machine renting and welders staffing
- Welding inspection services
- Installation and maintenance workers
- Civil work, construction, HVAC staffing
- Occupational safety card training
- Hot work licence card training
- Construction assistants and industrial cleaners

References

www.marra.fi

Certificates: Tilaajavastuu

Company name	Marra Oy
Address	Niemeläntie 14 92100 Raahe Finland
Tel.	+358 44 7414 701
Web	www.marra.fi
Founded	1989
Employees	50
Annual turnover	2 M EUR
Contact	Lauri Martinmäki Personnel Manager lauri.martinmaki@marra.fi Pertti Martinmäki CEO pertti.martinmaki@marra.fi

Member of FinNuclear Association

Oulu Business Networks (OBN)

OBN (official name Oulun B&N Yhtiöt Oy) is a Finnish consulting firm based in Oulu that assist SMEs with business, product, and service development ideas. We also help our customers to meet quality and other conformity standards (ISO and other) requirements and have tens of satisfied customers who have also certified their systems. Our operations are best described through close customer cooperation as well as adaptive networking among different operators in order to get the best outcome for our clients. Our customers represent various industries and vary from small to large companies with consistent high quality and a good attitude. Many public business development organisations also use our services. Our customers say that we are a fair partner who can be trusted, now and in the future.

Areas of core competence

Business development, management system, ISO9001, ISO14001, ISO45001, ISO13485, ISO17025, NSQ100, compliance of conformity.

References

More than 200, confidential. Please contact for more information.

Company name	Oulu Business Networks (OBN)
Address	Takatie 6 90440 Kempele Finland
Tel.	+358 50 560 2709
Web	www.obn.fi
Founded	2003
Employees	6
Annual turnover	0.4 M EUR
Contact	Pekka Kantola Managing Director (CEO) pekka.kantola@obn.fi Taito Kurvinen Senior Consult taito.kurvinen@obn.fi

Member of FinNuclear Association

Prizztech Ltd

For 30 years, Prizztech has been a key player in the world of innovation environments working to improve business performance and competitiveness. Prizztech helps organizations to prosper by providing them with the knowledge and support needed to realize potential. The company operates as an impartial, non-proft organization of experts in business development, research and project management. Prizztech is a member of Finnish Association of Regional Development Agencies.

Prizztech's operations are divided in to the following themes: entrepreneurship and business life, attractive business environments and research communities.

Areas of core competence

- Development projects and programmes
- Business development and business networks
- Innovation networks and ecosystems
- Special themes (renewable energy, offshore, arctic, circular economy, industrial renewal)

Company name	Prizztech Ltd
Address	P.O. Box 18 28101 Pori Finland
Tel.	+358 2 620 5300
Web	www.prizz.fi
Founded	1989
Employees	34
Annual turnover	3.8 M EUR
Contact	Marko Lehtimäki Development Director marko.lehtimaki@prizz.fi

Member of FinNuclear Association

Qualifinn Oy

Qualifinn Oy (Ltd) is a private independent consulting company serving the energy sector. Qualifinn Oy is specialized in nuclear projects in the areas of project management services, integrated nuclear safety and quality management systems, developing operational processes, quality assurance programs and related procedures, and providing personnel training. The consultants are senior project and quality management professionals having experience from many project executions.

Company name Qualifinn Oy
Address Tiedepuisto 4
28600 Pori
Finland
Tel. +358 50 462 0787
Web www.qualifinn.com
Founded 2007

Contact Markku Pitko
Managing Director
markku.pitko@qualifinn.com

Areas of core competence

Project management issues of nuclear projects, project planning and execution control, integrated management systems merging nuclear safety, quality, environmental, work safety and economic elements, related processes and procedures. Personnel training, pre-qualification/supplier audits, design and engineering control, supplier assessment, supply chain management, civil construction and manufacturing supervising, conformity inspections.

References

Miscellaneous nuclear and other energy projects

Certificates: Q/E/N auditing

Member of FinNuclear Association

Quantum Services International Oy

Quantum Services International is a specialist consultancy providing commercial / dispute resolution services and engineering services to the nuclear industry.

Our consultants have collective experience in over 30 countries around the globe on major projects; including nuclear and conventional power plants, paper mills, airports, hotels, railways, tunnels and highways, amongst others.

The firm is supported in Finland by subsidiary Quantum Energy Recruitment and in the U.A.E. by QSI Management Consultancy, which also provides risk/physical protection consultancy services.

Company name Quantum Services International Oy
Address Yliopistonkatu 10 B 54
20100 Turku
Finland
Tel. +971 2 448 0012
Web www.qsint.com
Founded 2007
Foreign subsidiaries QSI Management Consultancy
Office 1003, NBK Tower,
Old Airport Road,
PO Box 112807
Abu Dhabi
United Arab Emirates

Contact Brian Allan
Managing Director
brian.allan@qsint.com

Areas of core competence

Commercial and Contractual Advice, Construction Contracts Administration, Preparation and Defence of Contractual Claims, Mediation Services, Arbitration Support, Dispute Resolution, Programme and Delay Analysis, Mechanical and Electrical Engineering, Project Management, Expert Witness Services, Training

References

- Olkiluoto 3 NPP Project, Finland.
- Barakah NPP Project, U.A.E.

Member of FinNuclear Association

Raahe District Business Services

Are you considering starting a business in Raahe or the Raahe District? Do you need help in obtaining funding, marketing or internationalization? Are you looking for new commercial space in the area? Raahe District Business Services will serve you as an adviser in these and all other matters dealing with business.

Areas of core competence

Raahe District Business Services provides assistance in starting up business operations, planning of funding, internationalization, business location services and creates cooperation between companies and organizations.

Company name Raahe District Business Services
Address Rantakatu 5 D, 2. krs, 92100 Raahe Finland
Tel. +358 40 135 6750
Web www.raahenseudunyrityspalvelut.fi
Employees 15
Annual turnover 1.1 M EUR

Contact Pasi Pitkänen
Director
pasi.pitkanen@raahe.fi

Member of FinNuclear Association

RAOS Project Oy

RAOS Project Oy, a subsidiary of Rosatom Energy International, is the plant supplier of Fennovoima's Hanhikivi 1 nuclear power plant. Power plant unit will be built on the Hanhikivi peninsula in Pyhäjoki, with a thermal power of 3 220 megawatts and 1 200 megawatts of electric power, in addition to all the other facilities required to operate them.

Areas of core competence

RAOS Project - the Hanhikivi 1 nuclear power plant supplier

References

RAOS Project Oy is a part of Rosatom Group which has a long over 70 years experience and know-how on nuclear power field. We have constructed 74 nuclear power plants (NPP) in over 40 countries.

Certificates: ISO 9001, ISO 14001, OHSAS 18001

Company name RAOS Project Oy
Address Energiakuja 3
00180 Helsinki
Finland
Tel. +358 50 389 8991
Web www.raosproject.fi
Founded 2015
Employees 360
Foreign subsidiaries JSC RAOS Project St. Petersburg, Russian Federation

Contact Aleksey Kalinin
Director of Project Management Dept.
aleksey.kalinin@rosatom.fi

Member of FinNuclear Association

RAOS Voima Oy

RAOS Voima Oy is a Finnish subsidiary of JSC Rusatom Energy International and a part of the State Atomic Energy Corporation Rosatom. It is established to represent interests of Rosatom as one of the shareholders of Fennovoima.

Areas of core competence

Parent company controls all fields related to nuclear energy.

ROSATOM ENERGY INTERNATIONAL

Company name	RAOS Voima Oy
Address	Energiakuja 3 00180 Helsinki Finland
Tel.	+358 10 501 2400
Web	www.rosatom.ru
Founded	2014
Employees	10
Contact	Alina Haapalainen-Kamenev Country Director alina.haapalainen@rosatom.fi

Member of FinNuclear Association

Technology Industries of Finland

Technology Industries of Finland is the biggest industrial organisation in Finland. It has about 1600 members representing five branches: electronics and the electrotechnical industry, mechanical engineering, metals industry, information technology and consulting & engineering.

Technology Industries correspond to 75 % of the private research and development funding in Finland and 50 % of total Finnish exports. There are 280 000 directly employed in the sector and the total employment effect is 700 000 equalling 30 % of the Finnish workforce. The mission of the Federation is to build growth and success. A competitive technology industry is the basis for growth of Finnish economy, employment and welfare.

Areas of core competence

Industrial policy, innovation system, education and labour market policy, the Federation represents the Finnish technology industries.

Technology Industries of Finland

Company name	Technology Industries of Finland
Address	P.O. Box 10 Eteläranta 10 00101 Helsinki Finland
Tel.	+358 9 19231
Web	www.techind.fi
Founded	1903
Employees	92
Annual turnover	13 M EUR
Contact	Martti Kätkä Head of Energy Policy martti.katka@ teknologiateollisuus.fi

Member of FinNuclear Association

VMP Group

VMP Group consists of six different companies and specializes in recruiting and staffing. Our services range from short term personnel rentals to high-profile managerial recruiting and organisational development, making sure we can satisfy any and all HR needs our customers might have.

VMP Group's oldest company, VMP Varamiespalvelu has 31 years of experience in Finnish working life and our know-how of Finnish work law and collective agreement system is unparalleled.

VMP Group operates all over Finland on a local level and our offices are experts in the local economic life, giving us an edge over our competitors. VMP Group also operates in Sweden, Estonia and Romania while doing business across the EU borders as well.

Areas of core competence

- Staffing services
- Recruiting
- International recruiting
- Personnel assessment
- Executive search
- Organisational development
- Finnish employment law consulting

References

AREVA NP, Bilfinger GmbH, FMT Ferro Technik GmbH, Actemium, Empower, Suunto

Company name VMP Group
Address Castanea Oy
Nortamonkatu 18
26100 Rauma
Finland

Tel. +358 40 307 5162
Web www.vmpgroup.fi/en/
Founded 1988
Employees 300
Annual turnover 170 M EUR

Contact Jani Andreasen
Sales Manager
jani.andreasen@vmp.fi

Matti Vuohiniemi
Director
matti.vuohiniemi@vmp.fi

Member of FinNuclear Association

VTT Technical Research Centre of Finland Ltd

VTT's comprehensive nuclear energy expertise and research activities cover the technology and safety of nuclear power plants and nuclear waste management.

VTT provides solutions and contract research to nuclear regulators and industry players. Our services include nuclear safety analyses and licensing support, plant life management, nuclear waste management and next generation nuclear technologies.

VTT is a global leader in the development of nuclear waste management and disposal systems. We offer performance analyses of technical and natural barriers of repositories for geological disposal as well as engineered safety barrier solutions.

Areas of core competence

Reactor physics, transients, DBA, severe accidents, structural integrity, I&C, nuclear waste management, environmental impact, PRA, GEN IV, nuclear fusion, plant life management, TSO licensing support

References

- SAFIR and KYT programs
- TSO licensing services
- R&D services for spent fuel repository
- International PRA review
- Plant life management

Certificates: ISO 9001, ISO 14001

Company name VTT Technical Research Centre of Finland Ltd
Address Vuorimiehentie 3, Espoo
P.O. Box 1000
02044 VTT
Finland

Tel. +358 20 722 111
Fax +358 20 722 7001
Web www.vttresearch.com/nuclear
Founded 1942
Employees 2400
Annual turnover 258 M EUR

Contact Matti Paljakka
Solution Sales Lead
matti.paljakka@vtt.fi

Erika Holt
Customer Account Lead
erika.holt@vtt.fi

Member of FinNuclear Association

Audit, Consulting and Inspection Services Ari Greus Ltd.

Company name	Audit, Consulting and Inspection Services Ari Greus Ltd.
Address	Nostoväentie 22 B 02660 Espoo Finland
Tel.	+358 40 579 1722
Web	www.acisag.fi
Founded	2007
Contact	Ari Greus Auditor, Inspector, Consultant ari.greus@gmail.com

Member of FinNuclear Association

Audit, Consulting and Inspection Services Ari Greus Ltd.

Management system audit programs, technical inspections using following criteria: ISO 9001/14001/18001, IEC 60034, PED, ASME, ASME NQA-1, YVL-guide
- Other Customer specified requirements
Consultation in QMS issues or in more specific QA issues.

Areas of core competence

- Nuclear scope audits, assessments and evaluations
- Management systems, Quality assurance/inspections
- Business consulting
- Inspection of Pressure equipment, Cranes, Elevators, Mechanical and Electrical equipment

References

ABB (Electrical Machines, Transformers, Control units), KONE (Elevators, Escalators), Konecranes (Cranes), Metso (Valves), Bureau Veritas Finland (Management of inspections, Olkiluoto 3), Outotec (Copper Refinery), Wärtsilä (Diesel/Gas Power), MHWirth, Norway (Offshore Oil Drilling), Raumaster (Feeding Systems), Alfa Laval (Radiators), Algol Technics (Cranes), Sulzer Pumps (Pumps), Valmet Technologies (Boilers), etc. (more details by request)

Certificates: NQA-1 Lead Auditor

Clenercon Oy

Our mission is to provide advice, consulting, solution finding and creation of innovative collaboration in the clean energy value chain tailored to the customer's needs. We focus on areas related to structural integrity, long term operation, safety and reliability of NPPs.

Company name Clenercon Oy
Address Etelätie 8 C 2
02710 Espoo
Finland
Tel. +358 40 501 5184
Web www.clenercon.fi
Founded 2015

Contact Rauno Rintamaa
Managing Director
rauno.rintamaa@clenercon.fi

Areas of core competence

- Technical competence in all issues related to design principles, safety and reliability of NPPs including safety requirements of nuclear regulation
- Support for licensing nuclear facilities and conformity assessment of safety requirements
- Creating, coordinating and managing international networks
- International high-level marketing and sales, customer relationship management, contract negotiations and project management

References

- Review of YVL Guides as a Member of the Nuclear Safety Commission (YTN)
- Pre-study on nuclear licensing model development for STUK
- Survey of the development of regulatory control for STUK
- Advisory Board Member of KINGS (KEPCO International Nuclear Graduate School), South Korea

Member of FinNuclear Association

EnergyWave Oy

Company's main services include consulting, fact-finding, marketing, and generation of collaboration in the energy area, especially nuclear fission and fusion, hydrogen and fuel cells.

Our systematic approach, coupled with a vast EU-wide and international network of specialists, and our in-depth knowledge of developments in the European Commission, ensure the highest professional expertise.

Company name EnergyWave Oy
Address Uudenmaankatu 33 E 43
00120 Helsinki
Finland
Tel. +358 50 302 1355
Web www.energywave.fi
Founded 2007

Contact Kari Törrönen
Managing Director
kari.torronen@energywave.fi

Areas of core competence

High level networking, marketing, and negotiations. Specific technical competences include all aspects of safety of NPPs.

References

- Various market studies for VTT including the evaluation of research reactor and hot cell laboratory needs in Finland, and licencing support for possible vendors
- Various consulting tasks for Olkiluoto 3 project
- Consulting in updating of YVL-guide on ageing management in NPPs
- Consulting STUK in improving licensing process for nuclear facilities
- Executive Committee member of F4E

Member of FinNuclear Association

Rajalimes Oy

Company name Rajalimes Oy
Address Rauduntie 25
02130 Espoo
Finland
Tel. +358 50 591 2022
Web www.rajalimes.fi

Contact Timo Rajala
timo.rajala@rajalimes.fi

Member of FinNuclear Association

Rajalimes Oy

Rajalimes Oy is a diverse consulting company, providing high-quality, professionally implemented services tailored to the customer's need. Company offers services related to the energy business.

Areas of core competence

- business arrangements
- design and developing industrial processes and approaches
- board of directors services
- assets pricing

References

- Consulting services to FinNuclear Association, FinNuclear Ltd and Olkiluoto 3 project
- Project development for the centre of biofuels to Biovoima Kanta-Häme
- Various power plant studies for industry and municipalities, as well as a small CHP plant development co-operation with the AP Industry
- Distribution network studies and utilities value analyses for different owners and companies
- LNG study for the state of Finland

X-CONCEPTS

Company name X-Concepts Oy
Address Leivinkalliontie 64
36200 Kangasala
Finland
Tel. +358 400 429 588
Web www.x-concepts.fi

Contact Marko Lindroos
Managing Director
marko.lindroos@x-concepts.fi

Member of FinNuclear Association

X-Concepts Oy

X-Concepts Oy specializes in the Nuclear Industry providing independent Management Consulting and Expert Services in the strategic and operational level.

Areas of core competence

We offer integrated consulting and project management services for NPP industry,from energy companies to NPP- suppliers, including the whole supply chain of subcontractors and suppliers.

The core competences are in the practical requirement management set by the Finnish authorities (STUK YVL-Guide), labor laws and union agreements.

X-Concepts Oy provides technical competence and Project management in mechanical, including piping, electrical and fiber optical installations and commissioning. We can also supply electrical S1 Supervisor of electrical works among other site services.

References

X-Concepts Oy's competent personnel has over 30 years experience of services to Finnish nuclear power plants,on all sites of Loviisa and Olkiluoto. Our experts have participated in numerous tasks in Olkiluoto 3- project since beginning of the project in 2004.

TITAN-2, Leningrad II NPP

Associated Members

ABB Oy
www.abb.fi

Control and electrical systems for Nuclear plants including motors and drives, power and distribution transformers, High voltage systems, Generator circuit breakers, Medium- and low voltage equipment and switchgear, Protection relays, and substations. Services including maintenance, repair and modernization projects.

Ablemans Oy
www.ablemans.fi

Our competence in nuclear relevant areas are: steel welding, stainless steel welding (MIG, TIG and Electrode welding) and aluminium welding professionals for pipe systems and steel construction works. Project management, installation and manufacturing services for customers.

Conlog Group
www.conlog-group.fi

Project management and design.
EMP/EMC-protected mobile facilities. Control, communication and command centers. Decontamination premises and clean rooms/ filters. Data centers. Back-up power devices.
Equipment installation and system integration.
Know-how of refrigeration and cooling systems, CBRNE
Certified quality management systems: ISO 9001:2015, ISO 14001:2015 ja Aqap2110:2016

Descal Engineering Oy
www.descal.fi

Process and plant engineering, steel structure engineering and strength calculations for process, mining and energy industry including nuclear power plants.

Etteplan Oyj
www.etteplan.com

Etteplan provides industrial equipment and plant engineering, software, embedded systems, and technical documentation solutions to the world's leading companies in the manufacturing industry. Our services are geared to improve the competitiveness of our customers' products and engineering processes throughout the product life cycle. The results of Etteplan's innovative engineering can be seen in numerous industrial solutions and everyday products.

Heatmasters Oy

www.heatmasters.net

Heatmasters (headquartered in Finland) is the leading heat treatment (pre and post-weld heat treatment) services and equipment provider in Europe with over 40 years of experience. Our in-depth know-how, customer orientation, and flexibility have helped us to build long term relationships with all the industry leaders. We are one of the only heat treatment companies with certified ISO 9001, ISO 17663 and OHSAS 18001 quality management systems. Our specialists work at customers' project sites European wide and beyond.

Helsinki Valve & Fitting Oy

www.swagelok.com/helsinki

Swagelok® is a major developer and provider of fluid system solutions including products, assemblies, and services. Swagelok® manufactures tube fittings, valves, regulators, hoses and other products that are vital to fluid system solutions in industries such as power generation. Broad range of Swagelok® products, well-known for its quality, reliability, and leak-tight connections, helps to minimize shutdown time and expenses to qualify multiple fluid system suppliers.

Intergraph Finland Oy

www.intergraph.fi

Plant design (incl. 3D, P&ID, Instrumentation, Electrical, etc.), Plant Information management, Material management and related services.

Karjalan Konepaja Oy Karelia Works

www.karjalankonepaja.fi

Karjalan Konepaja Oy manufactures pipe and conveyor bridges, service platforms, stepped scaffolding, and steel frames for buildings. Our turn-key solutions include the design, manufacture, finishing, transportation, and installation of steel structures.
Karjalan Konepaja has been awarded an EN1090 certificate for CE-marked welded steel assemblies in implementation classes EXC1, EXC2, and EXC3.

Metso Flow Control Inc

www.metso.com

We offer a wide range of flow control solutions, valves for process industries and Metso life cycle services. We help our customers improve their operational efficiency, reduce risks and increase profitability.

Normek Oy

www.normek.fi

Normek Oy's typical steel structure projects are the primary steel frames for wood and paper processing industry, power plants, ship yards, industrial buildings, business centres, office and residential buildings, sport and airport hangars as well as primary steel structures for road, water crossings and pedestrian bridges. The claddings and erection works are often included in the scope of delivery.

OMP Konepaja Oy

www.ompgroup.fi

Boilers and pressured tanks, flood gates, water filtering systems, bar screens, trash racks, heated formworks, embedded parts

Sahala Works Oy

www.sahala.fi

Shell and tube heat exchanger thermal calculations, pressure vessel calculations, construction planning, material selection, manufacturing, installation at site, commissioning.

Siemens Oy

www.siemens.fi

Energy solutions (e.g. turnkey power plants), utility and industrial gas and steam turbines, generators, I&C, solutions for Nuclear Power, operating plant services, maintenance and repair, modernization and upgrades, environmental systems and services.
High-voltage AC and DC transmission systems, power transformers, distribution transformers, medium-voltage equipment and systems, solutions for the automation of power grids and substations, protection and control.
Services, consulting, network planning.

Space Systems Finland Oy

www.ssf.fi

I&C Safety:

- Consultation on I&C architecture, design processes and design issues
- IEC 60880, IEC 61508 compliance analysis
- Qualification planning, support according to the YVL.
- Independent safety assessment and testing

Sulzer Pumps Finland Oy

www.sulzerpumps.fi

Pumps, compressors, pumping stations, aerators and agitators for water and wastewater, power, food, metal, fertilizer, refinery and pulp & paper industries.

Teknos Oy

www.teknos.com

Paints and coatings for nuclear power plants according to STUK-YTO-TR 210 (Radiation and Nuclear Safety Authority/Finland) and TBY (Technical Regulations for Surface Treatment/ Sweden and Finland), among others.

TVO Nuclear Services Oy

www.tvons.fi

The mission of TVONS is to provide TVO´s 50 year experience in nuclear business to our customers. TVO has 40 years excellent operation experience of BWRs, 25 years effective experience in construction and operation of LILW repository and in recent years TVO has also got unique experience of tendering, sourcing and constructing a first of a kind modern nuclear power plant. Our services covers consultation to new built projects, low and intermediate waste management, nuclear safety and operation performance improvement on nuclear power plants.

ÅF-Consult Oy

www.afconsult.com

Consulting, engineering and project services for energy industries. Expertise in nuclear power plants: seismology, static and dynamic structural analysis, fire protection and nuclear safety, project and construction management.

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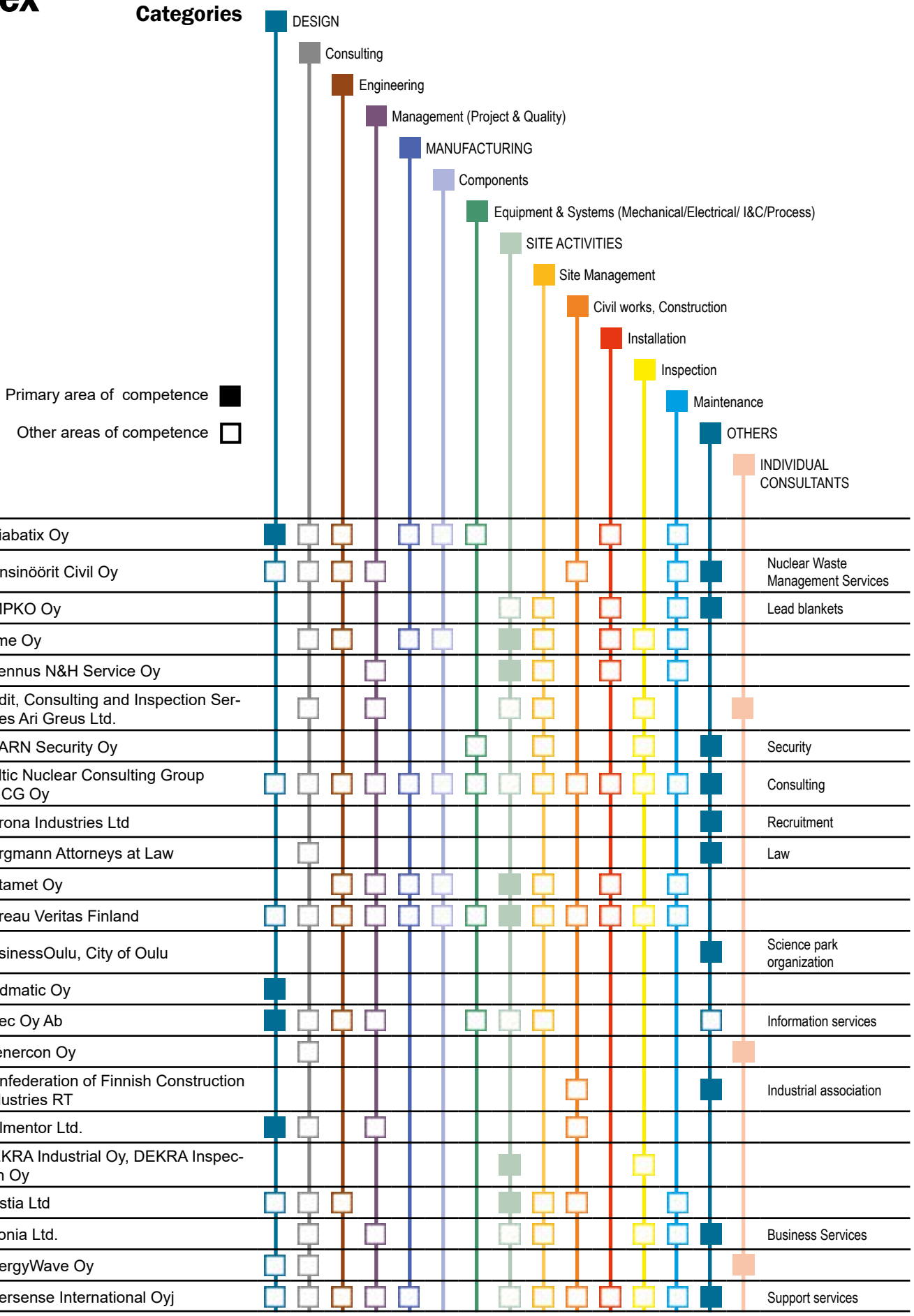

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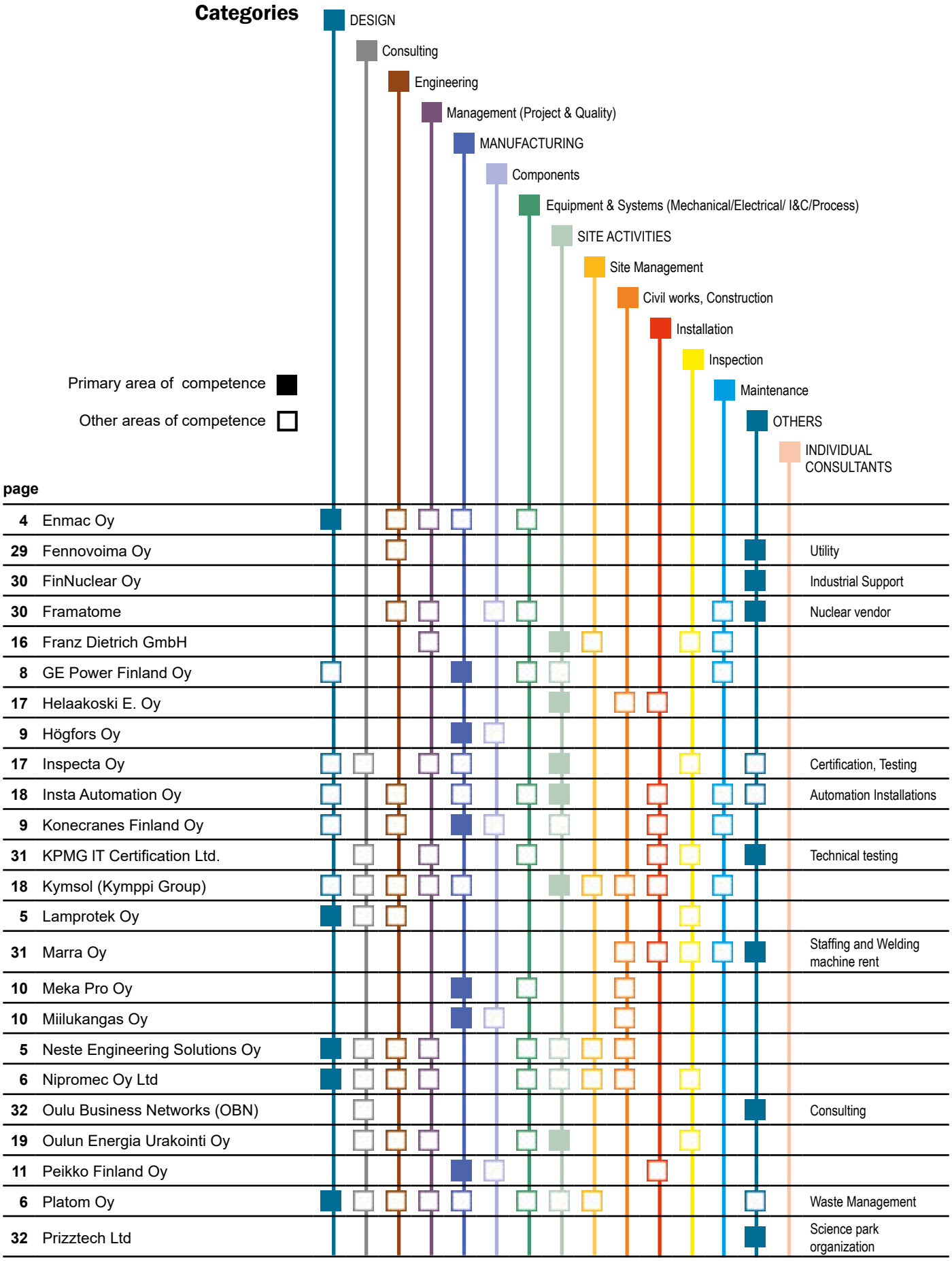
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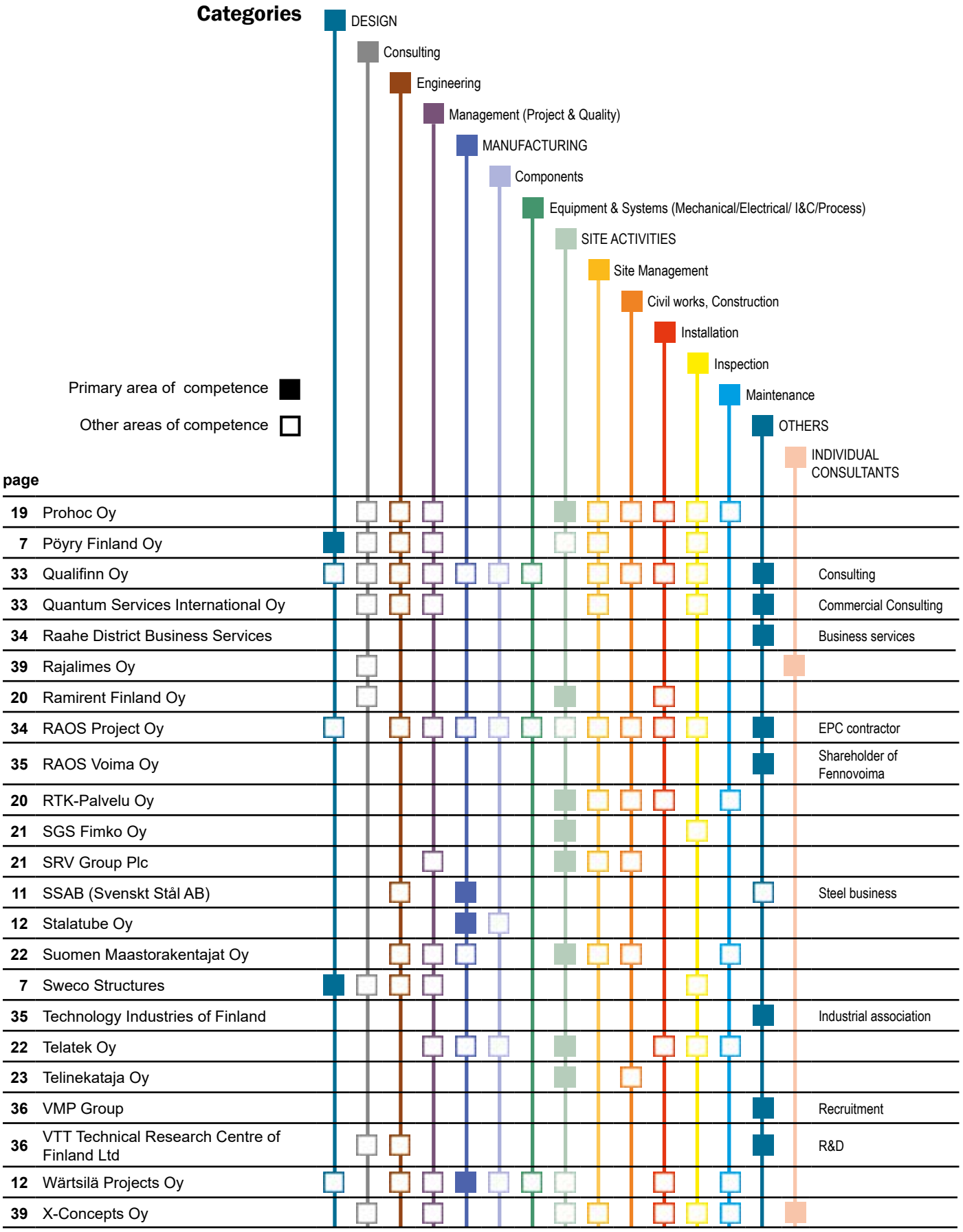

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FinNuclear Member of the Year 2018

KONECRANES®
Lifting Businesses™

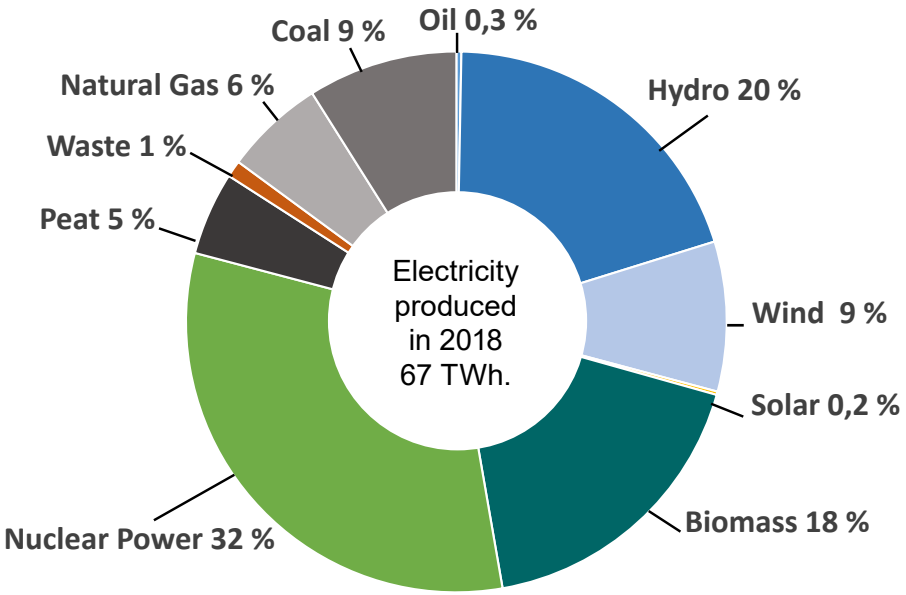
Not just lifting things, but entire businesses

Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. In 2017, Group sales totaled EUR 3,136 million. The Group has 16,400 employees at 600 locations in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).

konecranes.com

Climate friendly electricity generation in Finland

In 2018 Finland produced 79 per cent of its electricity by using nuclear energy and renewables*. Finland's electricity consumption was 87 TWh in 2018. Net imports accounted 23 per cent of the need.



Source: Finnish Energy (ET)

**Renewable energy sources are example solar, wind, geothermal and biomass.*

Finnish nuclear industry know-how

Finnish companies have expertise in all aspects of the nuclear energy industry, covering the entire lifecycle of nuclear power plants and associated facilities, including design, licensing, construction, operation, maintenance, modernisation, fuel cycle, waste management and decommissioning as well as related research activities.

Finnish nuclear industry expertise is especially focused on the following areas:

Nuclear waste management

In Finland Posiva has constructed the underground rock characterization facility (ONKALO®), which will be part of the final repository for spent nuclear fuel currently under construction.

Expertise in low and intermediate radioactive waste management has also been accumulated during over 40 years' experience of nuclear energy production.

Nuclear power plant (NPP) lifecycle management

Nuclear power plants in Finland have been operating safely for over 40 years and upgraded effectively with high performance records.

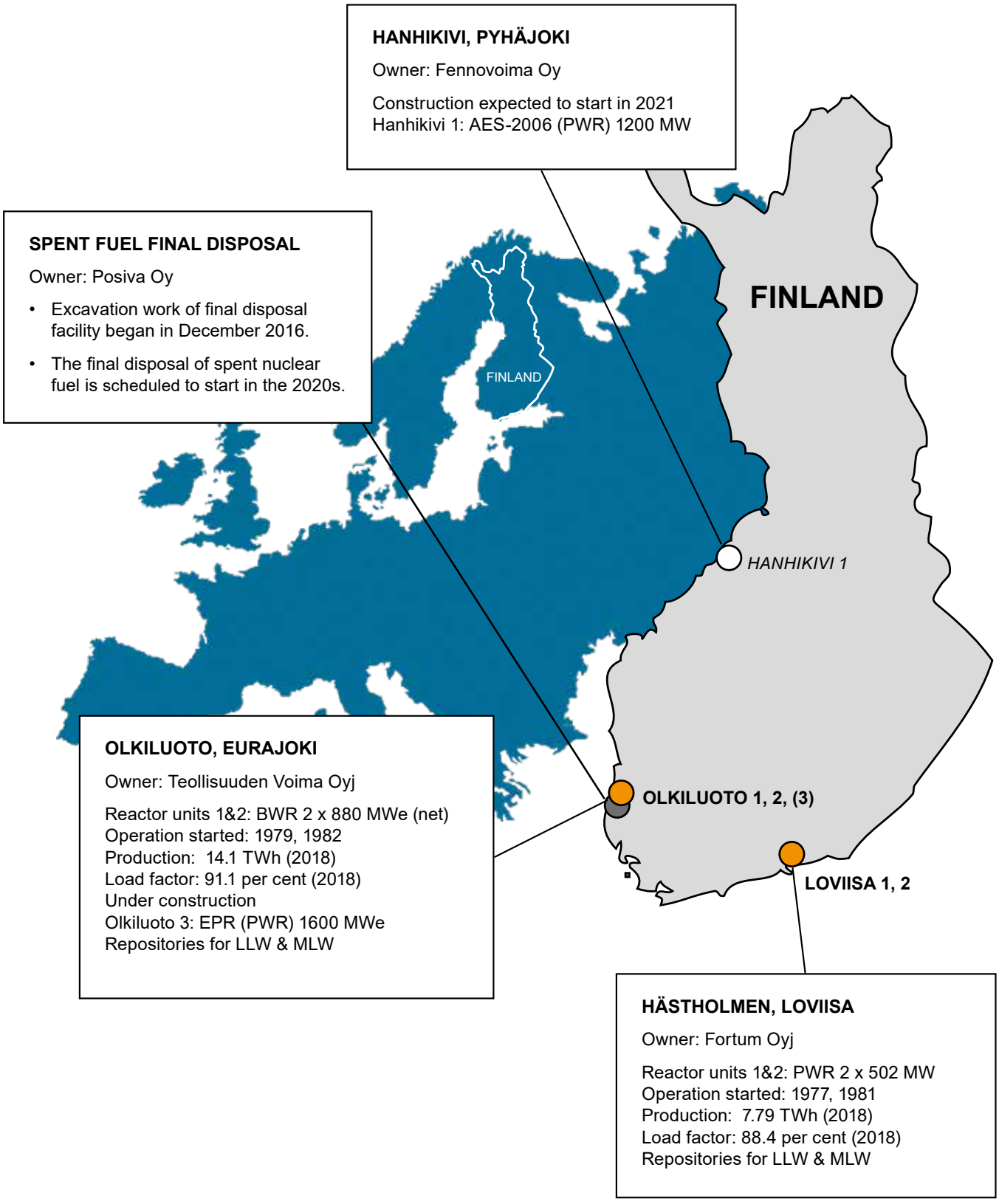
Know-how in nuclear safety management

Finland has stringent nuclear safety regulations which Finnish companies have strictly enforced in projects and gained a wealth of knowledge in nuclear safety management. Finland has been investing in nuclear safety research for many years.

Examples of services and products for NPPs:

Technology expertise, design, consulting, quality assurance, upgrades, annual outage planning, maintenance, construction, commissioning, project management, hoists, motors, insulators, automation, inspections, analyses and simulations.

Nuclear energy in Finland



FINNUCLEAR® RY
FinNuclear Association

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