

The background of the top half of the poster is a photograph of a sunset or sunrise over a body of water. The sky is filled with soft, colorful clouds in shades of orange, pink, and blue. The sun is low on the horizon, creating a bright glow. The water in the foreground is dark blue with some white foam from waves.

Energy

Week

2017 20 - 24
MARCH VAASA,
FINLAND

The bottom half of the poster features a solid green background with a pattern of diagonal white stripes running from the top-left to the bottom-right.

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*Our new
vision
is called
Gigavaasa*

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ENERGY-
WEEK
2017
POWERED
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VAASA – THE NORDIC ENERGY CAPITAL AIMING FOR GIGAFACTORY



Once again Vaasa has the honour of hosting Finland's number one event for the energy industry. Vaasa Energy Week brings together some 4,000 experts to exchange thoughts, ponder future trends and make the world a cleaner place to live.

We need visions, they give us the direction to go forward. The vision of the City of Vaasa was to be the Energy Capital of the Nordic Countries and that vision quickly became the reality. Vaasa has an energy industry cluster that is also internationally distinguished. More than 140 companies within the energy sector represent a turnover of over 4 billion euros. All these companies work together with

educational institutions and other organizations towards growth and development.

Now Vaasa wants to become a part of visions that are far greater, visions that will change the world for the better. Our new vision is called Gigavaasa and we are currently preparing a proposal for the next Tesla Gigafactory to be built in Vaasa. Sustainable development is our passion and Vaasa is an

important player in the global energy and environmental issues. That is why we are aiming for Gigafactory.

I wish you a rewarding and enjoyable week in Vaasa!

TOMAS HÄYRY
MAYOR, CITY OF VAASA

ACTIONS ARE NEEDED FOR MEETING THE TARGETS OF THE PARIS AGREEMENT

Last November, the historical agreement reached in Paris came into effect. Still, we live in uncertain times and the challenges we face are great.

Global warming is progressing at alarming speed. Also in Finland, we must not underestimate the needs for action - especially considering renewable energy - if we are to meet the Paris target of 1.5°C.

Firstly, the Finnish government should take a firm stand in banning the use of coal. Secondly, it should change its position on peat. The last government decided to decrease the use of peat systematically.

The current government should continue this process.

Lastly, the government should see the benefits of circular economy. It is important to remember that we all live in a world of alternative costs — waste generation can thus be completely profitable. Therefore, economic incentives for promoting the circular economy should not be ignored in efforts to reach the Paris targets.

We should turn our efforts

in making solar and wind power viable options in Finland. Subsidising electric cars or developing our smart electrical grid are ways to harness our innovative potential. It is better for the environment. It is better for our health. And it is better for creating new jobs.

VILLE NIINISTÖ
KEYNOTE SPEAKER,
VAASA WIND EXCHANGE
AND SOLAR



CONTACTS & INFO



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RESTAURANTS



1H + K

Breakfast, lunch, evening menu
Mon 8.30-16, Tue-Fri 8.30-23, Sat 10-23
Hovioikeudenpuistikko 13 A [2nd floor]
WWW.1HK.FI

AMARILLO

Southern style restaurant
Mon 11-22, Tue-Thu 11-23,
Fri-Sat 11-24
Rewell Center 2nd floor, Ylätori
WWW.AMARILLO.FI

BRASSERIE & BAR FONDIS

European style brasserie
Mon-Thu 11-23, Fri 11-02, Sat 12-02
Hovioikeudenpuistikko 15
WWW.FONDIS.FI

FRANS & NICOLE

Mon- Sat 11:00-24:00
Hovioikeudenpuistikko 18
WWW.RAFLAAMO.FI

GUSTAV WASA

Fine Dining & Gastropub
Mon-Fri 18-
Sat 16-
Raastuvankatu 24
WWW.GUSTAVWASA.COM

IL BANCO

Italian restaurant with a broad winelist
Mon-Fri 9.30-23
Sat 11.30-23
Hovioikeudenpuistikko 11
WWW.ILBANCO.FI

KAFFEHUSET AUGUST

Lunch, á la carte
Mon 9-21, Tue-Fri 9-23, Sat 11-23
Hovioikeudenpuistikko 13
WWW.KAFFEHUSETAUGUST.FI

READ MORE:

VISITVAASA.FI

CAFÉES

AROMA

Finland's best bakery (winner 2014)
Mon-Fri 8-17, Sat 9-14
Hovioikeudenpuistikko 11
WWW.AROMA.FI

CAFE DE PARIS

French café culture. Broad variety of
coffees and sweet and salty snacks.
Lunch.
Mon-Fri 7.30-19, Sat 07.30-18,
Sun 11-16
Rewell Center 1st floor
WWW.CAFEPARIS.FI

FAZER CAFE

Hovioikeudenpuistikko 15 A
Mon-Fri 08:30 - 19:00
www.fazer.fi

KONDITORI WASA

Local bakeries' products, also
lunchmenu
Mon-Fri 8-18, Sat 9-15
Market Hall, Vaasanpuistikko 18
WWW.WASAKONDITORI.FI

LOFTET

A café in charming 19th century
surroundings that also serves lunch
Mon-Fri 10-17, Sat 10-15
Raastuvankatu 28
WWW.LOFTET.FI

SWEET VAASA

Cakes, salads, lunch
Mon-Tue 10-18, Wed-Thu 10-21
Fri 10-22, Sat 10-18
Hovioikeudenpuistikko 11
WWW.SWEETVAASA.FI

TO DO

BOCK'S CORNER BREWERY

A small independent brewery,
also serves food
Mon-Thu 16-22, Fri-Sat 16-02,
Sun 14-20
Gerbyntie 18 [2,6 km from city centre]
WWW.BOCKSCORNERBREWERY.COM

GLORIA VAASA

Movie theatre
Hovioikeudenpuistikko 16
WWW.BIOREX.FI

THE CLUB

Pool, darts
Thu 18-22
Kauppapuistikko 20
WWW.THECLUB.FI

TROPICLANDIA

Spa, sauna
Sun-Thu 10-20, Fri-Sat 10-21
Kesäpolku 1
WWW.TROPICLANDIA.FI

WASA CINEMA BOWLING

Bowling, pool
Mon-Tue 13-12, Wed-Thu 13-22,
Fri-Sat 13-24
Kauppapuistikko 18
WWW.CINEMABOWLING.COM

THE APP-GUIDE VAASA WALKS

Download the App [available in App Store
and Google Play] and take a guided walk
in Vaasa on your own.



DID YOU KNOW?

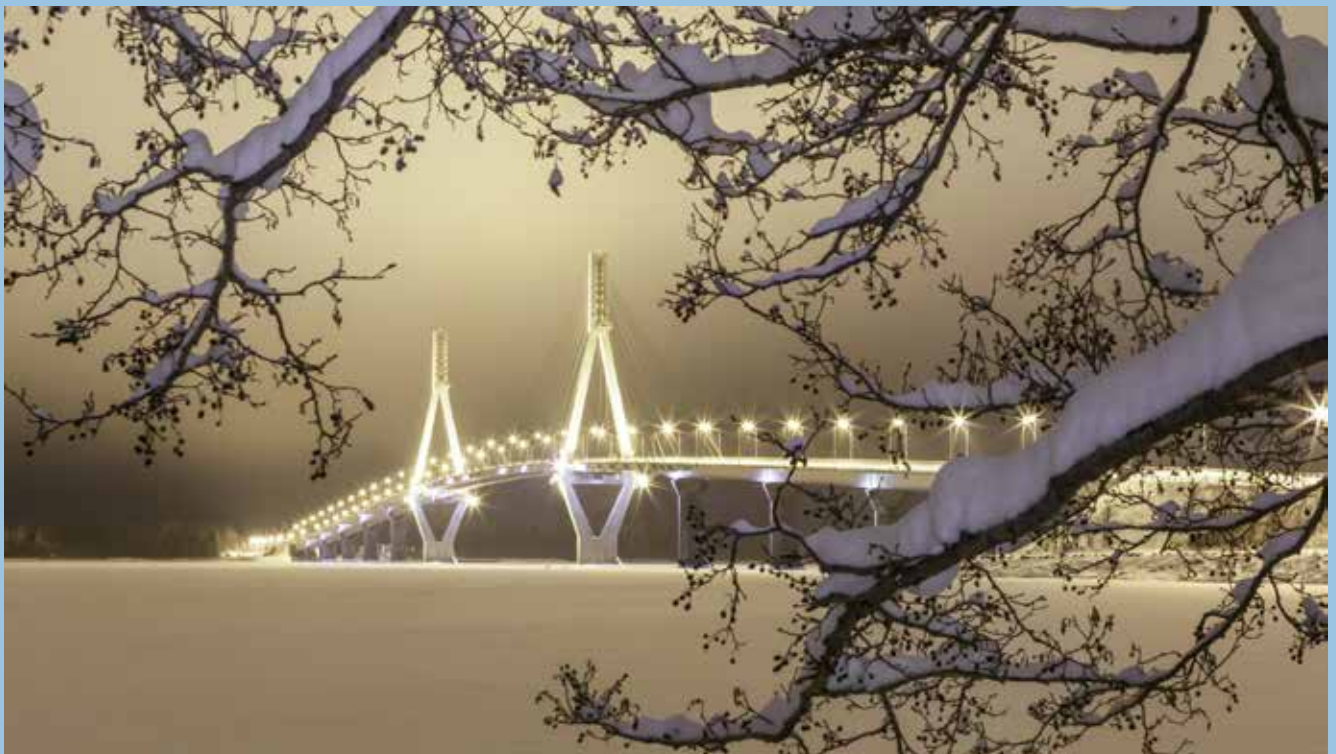
The Kvarken Archipelago is the only Finnish natural heritage on UNESCO's World Heritage List. Kvarken is part of a global family of 46 Marine World Heritage sites together with the High Coast in Sweden.

There is room to breathe in our sunny and barren archipelago. Let the tender sea breeze sweep your troubles and worries away. Enjoy here and now, all year round.

The Kvarken Archipelago together with the High Coast in Sweden form a transboundary World Natural Heritage site. We received the World Heritage status because our area is the best place in











the world to witness the phenomenon of land uplift. The Kvarken Archipelago possesses a genuine geological value since the rapid rate of the land uplift is one of the highest observed world-wide. Further, the archipelago, together with the High Coast, is a key area for understanding the processes of land uplift caused by the melting of the ice sheet during the last ice age. Unique traces, or glacial depositional landforms, of the ice age can also be observed in the Kvarken archipelago, as De Geer-moraines and Ribbed-moraines. These landforms add to the variety of the landscape in the region.

Read more: WWW.KVARKENWORLDHERITAGE.FI



Exchange –events	Seminar events
Evening events	Other events



		THURSDAY March 23			FRIDAY March 24	
 Energy Regulation 📍 Restaurant Central 🕒 09:00 - 15:00	 Cyber Security & Digitalization 📍 Ritz 🕒 9:00 - 16:00	 Vaasa Gas Exchange Exhibition 📍 Vaasa City Hall 🕒 09:00 - 17:00 Exhibitor briefings 🕒 12:00 - 15:30  Energy Match 📍 Vaasa City Hall 🕒 10:00 - 16:00	 Vaasa Gas Exchange Seminar 📍 Vaasa City Hall 🕒 10:00 - 15:10		 Energy & Buildings Exhibition 📍 Vaasa City Hall 🕒 09:00 - 15:00	 Energy & Buildings Seminar 📍 Vaasa City Hall 🕒 09:00 - 14:00
				 EnergySpin 📍 Vaasa-opisto 🕒 13:00 - 17:00		
 Energy Regulation cocktails and get together 📍 Restaurant Central 🕒 17:00				 EnergySpin networking 📍 Hanken 🕒 17:00 - 19:00		





YMPÄRISTÖSEMINAARI

#EnergiaYmpäristö

SEMINAARI



Maanantai 20. maaliskuuta, 12:00-16:15



Vaasan kaupungintalo [Senaatinkatu 1]

Vuodesta 2005 lähtien joka kevät järjestetty Energia- & ympäristöseminaari on vaikuttajataapahtuma, joka kerää yhteen merkittävän joukon alan päätöksentekijöitä niin julkiselta sektorilta kuin yrityksistä keskustelemaan alan ajankohtaisista teemoista. Vuoden 2017 seminaarin keskiössä ovat energia-alan tulevaisuus ja uusiutuvat energialähteet.



OHJELMA

- | | | | |
|--------------|---|--------------|---|
| 11:30 | Rekisteröinti | 13:55 | Kahvia, virvokkeita ja verkostoitumista |
| 12:00 | Tervetuloa seminaariin | 14:25 | Aurinkosähkö ja hybridiratkaisut |
| 12:10 | Vaasa EnergyWeekin 2017 avaus
Communication & Brand Manager Hanna Alavillamo ,
EnergyVaasa | | Development Manager Malin Östman ,
Wärtsilä Finland Oy |
| 12:15 | On uskallettava ajatella isosti - case Teslan Gigafactory
Kaupunginjohtaja Tomas Häyry , Vaasan kaupunki | 14:50 | Tulevaisuuden älykkäät sähköverkot
Head of Grid Automation Center of Excellence
Dick Kronman , ABB Oy |
| 12:45 | Energia-alan tulevaisuus Suomessa
Ulkomaankauppa- ja kehitysministeri Kai Mykkänen | 15:15 | IoT & energia - hajautettu energiantuotanto, kysyntäjousto ja Big data
Toimitusjohtaja Pasi Tuominen , Wapice Oy |
| 13:15 | Sähkömarkkinoiden murros
Sähkömarkkinajohtaja Asta Sihvonen-Punkka ,
Fingrid Oy | 15:40 | Energia-alan rahoitus
Kehitysjohtaja Pekka Sivonen , Tekes |
| 13:45 | Teknologian valtava muutosvoima
Yrittäjä ja kirjailija Rune Westergård | 16:05 | Seminaarin päätössanat
Pohjanmaan maakuntajohtaja Kaj Suomela |

NOTE!
PRESENTATIONS
ARE MOSTLY IN
FINNISH
LANGUAGE

Seminaarin I osan puheenjohtaja, toimitusjohtaja
Juha Häkkinen, Pohjanmaan kauppakamari

Seminaarin toisen osan puheenjohtajana toimii
päätoimittaja **Jyrki Alkio**, Tekniikka&Talous

PUHUJAT



HANNA ALAVILLAMO

Viestintäpäälikkö, VASEK

DI Hanna Alavillamo toimii EnergyVaasan viestintäpäälikköinä. Hänen vastuullaan on koko EnergyWeekin koordinointi ja markkinointi. Hannalla on taustaa teollisuudesta, niin kehitys- kuin markkinointityöstä.



TOMAS HÄYRY

Kaupunginjohtaja, Vaasan kaupunki

Vaasan seudun energiaklusterilla ja Teslalla on yhteinen tavoite: nopeuttaa maailman siirtymistä kestäväan energiaan. Tämä on hanke, joka rakentaa Vaasan tulevaisuutta useaksi sukupolveksi eteenpäin, kertoo Tomas.



KAI MYKKÄNEN

Ulkomaankauppa- ja kehitysministeri

Kai nousi ministeriksi viime kesäkuussa ensimmäisellä kansanedustajakaudellaan. Ennen poliitista uraansa hän on mm. työskennellyt EK:ssa ja elinkeinoministeri Häkämiehen erityisavustajana. Kain ydinosaamista ovat talous- ja energia-asiat sekä Venäjä.



ASTA SIHVONEN-PUNKKA

Johtaja, markkinat, Fingrid Oyj

Asta on ennen Fingridiä vetänyt Viestintävirastoa sekä Energiamarkkinavirastoa. Fingridissä hän on osallistunut yhtiön keskustelupaperin valmisteluun ja sen jatkotyöhön, ja hän edustaa Fingridiä pohjoismaisessa ja eurooppalaisessa ENTSO-E:n markkina-asioita käsittelevässä työryhmässä.



RUNE WESTERGÅRD

Yrittäjä ja kirjailija

Rune on parantunut tekniikkaoptimisti. Hän on uransa aikana ollut mukana luomassa useita uraauurtavia ympäristötekniisiä ratkaisuja, ja hän uskoo vahvasti, että uudessa ja paremmassa tekniikassa on ratkaisu nykyisiin ympäristöongelmiin.



MALIN ÖSTMAN

Development Manager, Project Development, Wärtsilä Energy Solutions

Malin on tuotantotalouden diplomi-insinööri Aalto-yliopistosta. Valmistuttuaan hän on työskennellyt Boston Consulting Groupissa ja vuodesta 2013 Wärtsilässä. Hän tekee projektikehittämistä, lisäksi hän on viimeiset 3 vuotta ollut mukana kehittämässä hybridiratkaisuja ja aurinkosähköstrategiaa.



DICK KRONMAN

Head of Grid Automation Center of Excellence, ABB Oy

Dickillä on 30 vuoden kokemus automaatiosta ja sähköjakelusta. Hän oli mukana lanseeraamassa älyverkkoja Suomeen ja käynnistämässä ensimmäistä tutkimushanketta. Tällä hetkellä tutkimus jatkuu digitalisaation ja IoT:n saralla. Dickin ydinosaamista on tutkimustulosten muuntaminen kannattavaksi liiketoiminnaksi.



PASI TUOMINEN

Tekn.tri, toimitusjohtaja, Wapice Oy

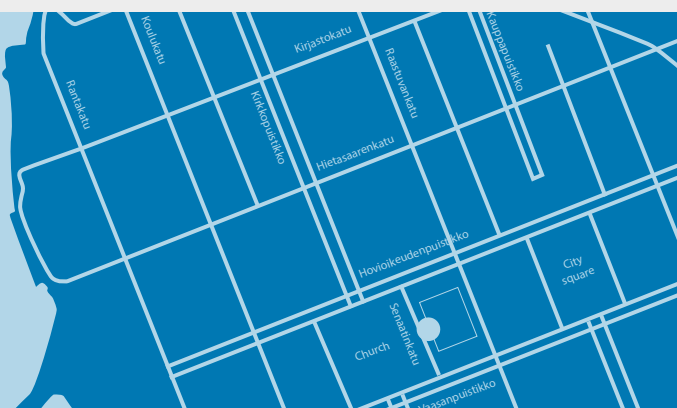
Wapicen osaaminen on langattomassa etäohjauksessa ja mittausjärjestelmissä. IoT:n käyttö energiaratkaisuissa ja myös laajemmin on jatkuvan kehityksen kohde Wapicella. 30% Suomen sähköyhtiöiden loppuasiakkaista käyttää Wapicen tuotetta sähkön käytön seurantaansa.



PEKKA SIVONEN

Kehitysjohtaja, Tekes

Pekka vastaa Tekesin digialueen strategiasta ja ohjelmista. Uusimpina avauksina hänen tiiminsä on valmistellut ohjelmat tekoälyn, täydennetyt ja virtuaalitodellisuuden soveltamiseen teollisuudessa ja yhteiskunnassa. Näillä eväillä maamme energiaklusterista tehdään kansainvälinen, disruptiivinen innovaatioalusta.



Yhteystiedot

Kysyttävää? Kysy Mialta

MIA BRÄNNBACKA

Pohjanmaan kauppakamari
mia.brannbacka@chamber.fi
+358 (0)50 309 2331



VAASA WIND EXCHANGE & SOLAR

#WindSolar

SEMINAR



Tuesday March 21, 11:00-15:30



Vaasa City Hall (Senaatinkatu 1)

The intense, two-day networking forum Vaasa Wind Exchange & Solar is the largest expert event in Finland in the trade. The event now arranged for the seventh time as part of the Vaasa EnergyWeek focuses on wind and solar power, and consists of an exhibition, briefings and a seminar. The event is once more expected to attract more than a thousand visitors from Finland and the rest of Europe.

PROGRAMME

VAASA WIND EXCHANGE & SOLAR OPENING

11:00 Opening speech

Miapetra Kumpula-Natri, Member of the European Parliament, Member of the Committee on Industry, Research and Energy (ITRE), EU Commission.

SEMINAR AND PANEL DISCUSSION 11.30 - 13.15

ZERO ANTHROPOGENIC GREENHOUSE GAS EMISSIONS BEFORE 2050

Moderator: **Darius Snieckus**, Editor-in-chief at Recharge

11.30 The role of media in the energy switch. Media has a strong role affecting the common opinion related to the energy switch. In order to understand the whole field of energy, a vast competence is required. Do media have time to penetrate these complicated issues? There is a small fraction of people that does not believe in the climate change. Do media pay these people too much attention?

Darius Snieckus, Editor-in-chief at Recharge

11.45 What is the Energy Union? The role of the Energy Union in the EU energy politics. How does EU contribute to the commitments of the Paris Agreement?

Miapetra Kumpula-Natri, Member of the European Parliament, Member of the Committee on Industry, Research and Energy (ITRE), EU Commission

12:00 Finnish energy politics. The Finnish government's greenhouse gas reduction targets and required policy for fulfilling the commitments of the Paris Agreement. Opportunities and threats in Finnish energy politics.

Ville Niinistö, Member of Parliament, chairperson of the Greens

12:15 For a cleaner world – transformation of the energy sector. Fortum's vision "For a cleaner world" reflects the ambition to drive the transformation towards a low-emission energy system and optimal resource efficiency. What does reshaping the energy system mean in practice?

Kari Kankaanpää, Senior Manager Climate Affairs, Fortum

12:30 Energy [R]evolution. The environmental organization road map towards energy production without greenhouse gases. Does this road map differ from the Energy Union's?

Sini Harkki, Country Director, Greenpeace

12:45 Panel discussion

Theme II: The energy systems of the future, renewable energy production and energy storage

SEMINAR AND PANEL DISCUSSION 14.00 - 15.30

ELECTRICITY GRID FOR FUTURE ELECTRICITY GENERATION UTILIZING MORE RENEWABLES

Moderator: **Adrian Timbus**, Technology & Solution Manager, Smart Grids and Wind Power, ABB

14.00 Power systems with high penetration of renewables. Renewable energy production is intermittent, decentralized and smaller scale. Consumers start to produce their own electricity, some times more than they consume. The future electricity grid that utilizes more renewables is different.

Adrian Timbus, Technology & Solution Manager, Smart Grids and Wind Power, ABB

14.15 Renewables in the national transmission system.

What are the challenges and limits of the national transmission system with an increased use of renewables? Is there a national transmission system or is the Finnish system a part of the Nordic transmission system? Will there be an EU transmission system without borders in the future?

Petri Parviainen, Customer Manager, Grid Services, Fingrid

14.30 Trading of renewable electricity. In Denmark, an average of 40% of the electricity is generated by wind power. Due to its intermittence, wind power production is sometimes close to zero and sometimes more than

100%. Practical experiences from trading electricity in a grid with more than 40% wind power.

Sten Lillienau, Key Account Manager Nordic at Neas Energy

14.45 Neo Carbon Energy. An energy system based on renewables alone. New opportunities in electricity generation with an increased use of renewables. Alternatives to energy storage.

Pasi Vainikka, Principal Scientist, VTT Technical Research Centre of Finland

15.00 Panel discussion

KEYNOTE SPEAKERS



MIAPETRA KUMPULA-NATRI

Miapetra Kumpula-Natri is a Member of the European Parliament since May 2014 and a member of the ITRE committee. Energy, digital markets and sustainable future are matters close to her heart. She is currently working as a rapporteur on the Wholesale roaming markets report that calls for a more coherent and fair use of telecommunication within Europe.



DARIUS SNieckus

A journalist with over 20 years of experience covering the global energy sector, Darius Snieckus is Editor-in-Chief of Recharge, the international renewable energy industry news. Snieckus wrote for several high-profile oil and gas titles before joining Recharge in 2009. He has chaired panels at major industry conferences around the world run by the foremost international Wind energy associations.



VILLE NIINISTÖ

Ville Niinistö served as the Minister of the Environment in Finland from 2011 to 2014. Currently, he is a Member of Parliament and the chairperson of the Greens.



KARI KANKAANPÄÄ

Kari Kankaanpää has profound expertise and experience in energy sector sustainability and public affairs issues. He is following climate and energy policies at national, EU and global level, and is involved in several industry associations and coalitions. He has an M.Sc. in Environmental and Chemical Engineering.



ADRIAN TIMBUS

Technology and Solutions Manager for Smart Grids and Renewables at ABB, Adrian Timbus received his master's and doctoral degree from Aalborg University in Denmark. Since 2007, he has held several positions at ABB and has been working with renewables for more than a decade. His expertise includes product and systems design, control and automation, and grid integration.



PETRI PARVIAINEN

Petri Parviainen has experience in grid business, planning, and operation since 1990 at the Finnish national grid company, Fingrid. Today, he is Grid Service unit and customer manager at Fingrid. His responsibilities are grid services including customer care, grid connection, and transmission business issues.



STEN LILLIENAU

Sten Lillienau has a broad background within the green and renewable industry sector. Apart from his position at Neas Energy, he has worked for Thermia/ Danfoss heat pumps and Metso Paper, and has served as Sector Expert Energy & Environment at the Danish Trade Council.



PASI VAINIKKA

Dr Pasi Vainikka works as Principal scientist at VTT Technical research centre of Finland Ltd, and he holds the position as Adjunct professor at Lappeenranta University of Technology (LUT). He is a responsible leader of the Neo-Carbon Energy project – the largest renewable energy research project in Finland so far.



Contact

Got a question? Ask Hanna:

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Pohjanmaan Expo Oy
+358 [0] 400 691 681



VAASA WIND EXCHANGE & SOLAR

#WindSolar

SEMINAR



Wednesday March 22, 10:30-14:45
Vaasa City Hall (Senaatinkatu 1)

PROGRAMME

WIND POWER

SEMINAR AND PANEL DISCUSSION 22 MARCH 2017

10.30 - 12.30

Moderator: **Joël Meggelaars**, Head of Advocacy & Messaging, Wind Europe

10.30 Wind power in Europe.

Is the wind power in Europe in continuous growth or a stagnating business? Forecast

Joël Meggelaars, Head of Advocacy & Messaging, Wind Europe

11.00 Status and future of wind power in Finland.

Installed wind power over the years. Will the trend continue or will there be a halt due to a lacking support system? Will there be a new support system in Finland? When and how? How much wind power will there be in Finland by 2030 and why?

Jari Suominen, Finnish Wind Power Association

11.15 Lifecycle management of wind farm electrifications in the Nordic countries.

Are there special requirements on wind farm electrification in cold climates? What specialties need to be considered in electrical lifecycle maintenance and proactive actions for Nordic wind farm's?

Esa Ala-Honkola, Vice President Expert Services, VEO Oy

11.30 Wind resource assessment in cold climates.

Challenges and mitigation with wind resource assessment in cold climates. The performance of turbines in cold climates may be significantly reduced by ice accretion on the blades. The magnitude of production loss has been seen to exceed 50% during winter months, and surpass 10% over the course of a year. Therefore, the impact of icing is a challenge for developing and operating wind farms in such regions.

Hugues Fournier, Head of Section for Offshore & Scandinavia, DNV GL, United Kingdom

11.45 IEA Wind Task 19 contribution.

Wind power in cold climates has a huge potential.

Despite the fact that wind power has been constructed in cold climates for decades, there is still a lack of standardisation and understanding. What can IEA Wind Task 19 do to improve the situation?

Ville Lehtomäki, Senior Scientist, VTT Technical Research Centre of Finland

12.00 Panel discussion

SOLAR POWER

SEMINAR AND PANEL DISCUSSION 22 MARCH 2017

13.00 - 14.45

Moderator: **Karolina Auvinen**, Director of FinSolar project and Stakeholder Relations Manager of Smart Energy Transition project, Aalto University

13.00 Solar power in Finland.

Feasibility of solar power in Finland. Can 1 kW solar PV plant produce more than 850 kWh annually in Finland? Do we have grid parity with solar power in Finland? The difference of economical feasibility for residential, industrial and general power production with solar power. Are energy storage systems crucial for the solar power?

Karolina Auvinen, Director of FinSolar project and Stakeholder Relations Manager of Smart Energy Transition project, Aalto University

13.15 Solar Photovoltaics [PV]

Solar PV technology from Finland. Energy production during the day and consumption in the evening. The need of energy storage system and balance management for solar PV. How would the system work in existing buildings, residential, industrial and general distributed power production? So can solar PV really be a part of today's power generation system in distributed level?

Miko Huomo, Partner, GreenEnergy Finland Oy

13.30 Solar photovoltaic.

Finnish solar panel manufacturing competing with

mass production in China, is it possible? How would the system work in existing buildings, residential, industrial and general power production? Electricity production in daytime and consumption in the evening. The need for energy storage system for solar panels.

Pasi Kautonen, Marketing Manager, Valoe Oy

13.45 Large scale solar power.

Experiences from large scale solar power in Finland. Will the levelized cost of energy with solar power in Finland be lower than spot electricity price? What are the most advanced solar power products on the market? Will the energy storage system increase the average sales price of electricity?

Atte Kallio, Project Director, Helen Oy

14.00 Solar power in the Nordic power market.

An increased use of solar power switches trading from day-ahead market towards intraday market. How much solar power can be incorporated in the Nordpool system? Can solar power be a complement in summertime replacing reduced electricity production from CHP due to low demand of heat and low water levels of hydropower? Will solar power also decrease the market price like wind power did or is the time of cheap electricity history?

Riku Merikoski, Analyst, SKM Market Predictor

14.15 Panel discussion

KEYNOTE SPEAKERS



JOËL MEGGELAARS

Master in International & European Law, Joël Meggelaars is Head of Advocacy & Messaging at WindEurope. He coordinates WindEurope's lobbying and press activities in Brussels and EU Member States.

The legislative proposals put forward by the European Commission on power market design and renewables deployment towards 2030 are the top priority for his team in 2017. He also represented the European wind industry at international and UN climate talks.



JARI SUOMINEN

Jari Suominen is the CEO of the Renewable energy business units of St1, and in charge of the company's renewable energy business in Finland, Sweden, and Norway. Since 1981, he has been filling leading

positions at ExxonMobil, and since 2007 at St1 within areas related to fuel, electricity and heat generation. He also holds several public offices within the trade.



ESA ALA-HONKOLA

Esa Ala-Honkola has over a decade of experience in the renewable energy sector. Since 2011, he has concentrated on maintenance and product lifecycle services. He specializes in electrification, automation system usability, and PLM services.



HUGUES FOURNIER

Hugues Fournier has over a decade of experience in the wind industry in, among others, Scandinavia, South America, France, and the United Kingdom. He holds an M.Sc. in Environmental Science, specializing in Renewable Energy, from the University of Paris VII Denis-Diderot.



VILLE LEHTOMÄKI

Ville Lehtomäki has been part of the VTT Wind Power team since 2009, focusing on coordinating and developing new projects and technology innovations. He specializes in icing effects on wind turbines. He is on a mission to unlock the potentials of cold climates to the wind industry.



KAROLIINA AUVINEN

Karoliina Auvinen, M.Sc. (tech.) has more than 15 years of experience in clean energy and climate change mitigation work in new business sector development and market creation. Currently, she works in Aalto University as Director of the FinSolar project and Stakeholder Relations Manager of the Smart Energy Transition project.



MIKO HUOMO

Miko Huomo represents the field of industrial automation and nanotechnology. Since 2012, he has been involved in creating the foundation of Finland's GreenEnergy business model in distributed energy production and balance management.



PASI KAUTONEN

Pasi Kautonen is an expert in marketing, sales and business development. He holds an M.Sc. degree in Industrial Engineering (Innovation and Technology Management, LUT), and is currently taking his BBA degree in International Business at the Helsinki School of Economics HSE.



ATTE KALLIO

Atte Kallio has strong experience with business development, the energy industry, and project management. He has been responsible for building two of the largest solar power plants in Finland, developing several new products for Helen Ltd, and leading many other smart and clean energy programmes.



RIKU MERIKOSKI

Riku Merikoski is a market analyst from SKM Market Predictor, which is one of the leading power market analysis companies in the Nordic, Baltic, and Russian markets. He has also worked as a portfolio manager and analyst at Tampereen Sähkölaitos.

HANNA NYHOLM

Pohjanmaan Expo Oy
+358 [0] 400 691 681



VAASA WIND EXCHANGE & SOLAR

#WindSolar

EXHIBITION



March 21 - 22 [Tuesday 10-17, Wednesday 10-15]



Vaasa City Hall

Vaasa Wind Exchange & Solar is an international exhibition, networking and seminar event for wind and solar power and renewable energy solutions. The event is arranged for the seventh time this spring as a part of the EnergyWeek. Get to know the latest developments in the business, meet the experts, decisionmakers, partners and colleagues of the trade in Vaasa! This event is arranged by Pohjanmaan Expo Oy.

EXHIBITOR'S BRIEFINGS

tähän lisätään vielä ohjelma

EVENT SPONSOR



Contact

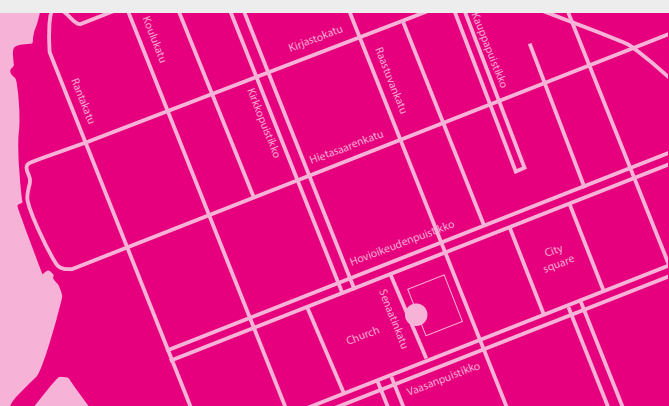
Got a question? Ask Hanna:

HANNA NYHOLM

Pohjanmaan Expo

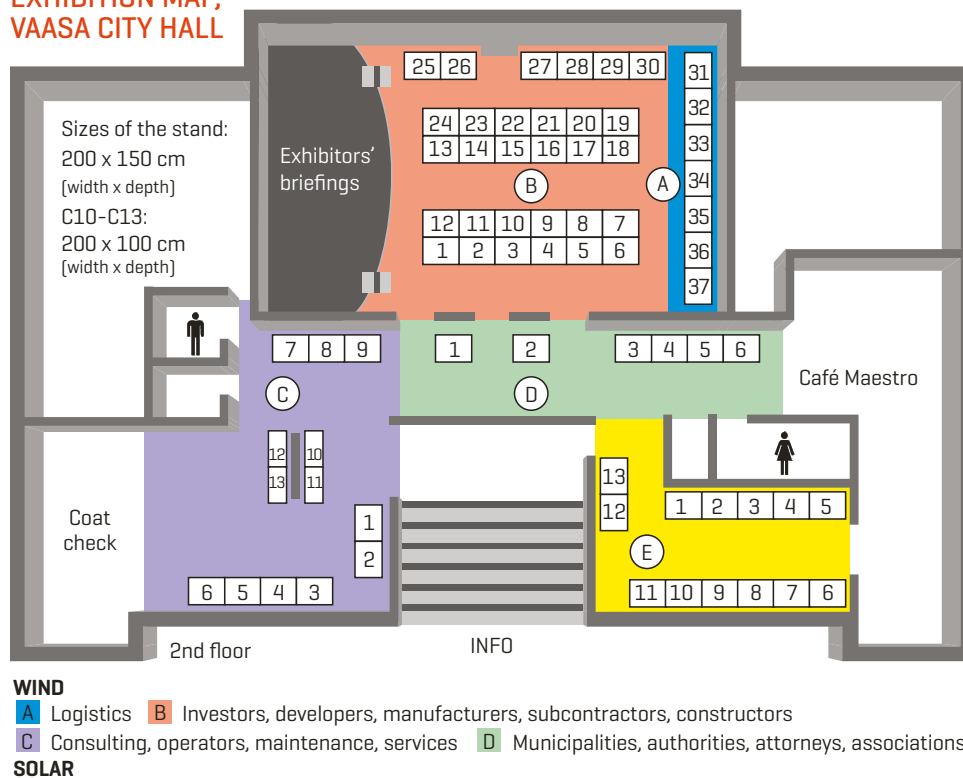
hanna.nyholm@pohjanmaanexpo.fi

+358 (0)400 691 681



VAASA WIND EXCHANGE & SOLAR EXHIBITORS

EXHIBITION MAP, VAASA CITY HALL



LOGISTICS

OY BLOMBERG STEVEDORING AB
WWW.BLOMBERG.FI

A36 **BLOMBERG STEVEDORING**

E12 ATLANTICA TRANSPORT
WWW.VASEK.FI

A35 **Interreg Botnia-Atlantica**
European Regional Development Fund

SILVASTI
WWW.SILVASTI.COM

A37 **SILVASTI**

THE CITY OF VAASA, DEVELOPMENT OF LOGISTICS / NLC - NORDIC LOGISTIC CENTER
WWW.VAASA.FI / WWW.NLCVAASA.FI

A35 **VAASA VASA**
nlc?

KVARKEN PORTS LTD
WWW.KVARKENPORTS.COM

A35 **Kvarken Ports**

INVESTORS, DEVELOPERS, MANUFACTURERS, SUBCONTRACTORS, CONSTRUCTORS

ABB
WWW.ABB.COM

B7 **ABB**

DNV GL ENERGY
WWW.DNVGL.COM/ENERGY/

B 17 **DNV-GL**

GE RENEWABLE ENERGY
WWW.GE.COM/FI

B 25 **GE**

ELTEL NETWORKS OY
WWW.ELTELNETWORKS.COM

B6 **ELTEL**

AMPNER OY
WWW.AMPNER.COM

B 26 **ampner**

ENERCON GMBH
WWW.ENERCON.DE

B 9-10 **ENERCON**
ENERGY FOR THE WORLD

AXPO FINLAND OY
WWW.AXPO.COM

B 4 **axpo**

ESCATMAT LTD OY
WWW.ESCATMAT.COM

B 21 **ESCATMAT**

BAZE TECHNOLOGY A/S
WWW.BAZETECHNOLOGY.COM

C 1 **bazefield**
Wind Farm Management System

FINGRID OYJ
WWW.FINGRID.FI

B 23-24 **FINGRID**

BLADEFENCE
WWW.BLADEFENCE.COM

B12 **BLADEFENCE**

GAMESA
WWW.GAMESACORP.COM

B 1-2 **Gamesa**

CO-ENGINEERING OY
WWW.CO-ENGINEERING.FI

B8 **CO-ENGINEERING**

LAGERWEY SYSTEMS B.V.
WWW.LAGERWEY.COM





B 29 **Lagerwey**

NORDEX ENERGY GMBH FINNISH BRANCH WWW.OBELUX.COM	B 13-14		SIEMENS WWW.SIEMENS.FI	B 30	
OBELUX OY WWW.PROPLATE.SE	B 3		TEKNOLOGIAN TUTKIMUSKESKUS VTT OY - VTT TECHNICAL RESEARCH CENTRE OF FINLAND LTD WWW.VTT.FI	B8-9	
PEIKKO FINLAND OY WWW.PEIKKO.FI	B 18		TERMA A/S WWW.TERMA.COM	B 27	
PROPLATE OXELÖSUND AB WWW.PROPLATE.SE	B 19		VAISALA OYJ WWW.VAISALA.COM/ENERGY	B 22	
ROSE HOLM A/S WWW.ROSEHOLM.DK	B 19		VEO OY WWW.VEO.FI	B 5	

CONSULTING, OPERATORS, MAINTENANCE, SERVICES

CRAMO FINLAND OY WWW.CRAMO.FI	C 3		KJELLER VINDTEKNIKK AB WWW.VINDTEKNIKK.SE	C 6	
ETHA WIND OY AB WWW.ETHAWIND.COM	C 1		KPMG OY AB WWW.KPMG.FI	C 5	
FCG SUUNNITTELU JA TEKNIikka OY WWW.FCG.FI	C 7		NORTHWIND CONSULTING OY WWW.NORTHWINDCONSULTING.FI	C 2	
FORTUM WWW.FORTUM.COM	C 4		PORI ENERGIA OY WWW.PORIENERGIA.FI	B 15	
HAFMEX OY WWW.HAFMEX.FI	B 28		RAMIRENT FINLAND OY WWW.RAMIRENT.FI	B 11	
JBE SERVICE OY WWW.JBESERVICE.FI	C 8		WIND CONTROLLER JV OY WWW.WINDCONTROLLER.FI	C 9	

MUNICIPALITIES, AUTHORITIES, ATTORNEYS, ASSOCIATIONS

BERGMANN ATTORNEYS AT LAW WWW.BERGMANN.FI	D 6		NEAS ENERGY A/S WWW.NEASENERGY.COM	B 20	
FLANDERS INVESTMENT & TRADE WWW.FLANDERSINVESTMENTANDTRADE.COM	D 3		SUOMEN TUULIVOIMAYHDISTYS RY - FINNISH WIND POWER ASSOCIATION WWW.TUULIVOIMAYHDISTYS.FI	D 1	
INVEST IN FINLAND, FINPRO WWW.FINPRO.FI	D 2		THE CITY OF VAASA - VAASAN KAUPUNKI - VASA STAD WWW.VAASA.FI	C 10-11	
THE MUNICIPALITY OF KORSHOLM - KORSHOLMS KOMMUN - MUSTASAAREN KUNTA WWW.KORSHOLM.FI	C10-11				

SOLAR ENERGY SYSTEMS, EQUIPMENT, COMPONENTS, CONSULTING, SERVICES

ETELÄ-SAVON ENERGIA OY WWW.ESE.FI	E 10		NAPS SOLAR SYSTEMS OY WWW.NAPSSYSTEMS.COM	E 11	
GREENENERGY FINLAND OY WWW.GEF.FI	E 13		SOLARBIOX OY WWW.SOLARBIOX.FI	E 1	
HELIOSTORAGE, DOUBLE M PROPERTIES WWW.HELIOSTORAGE.COM	E 12				



ENERGY BUSINESS FORUM

#EnergyBusiness

SEMINAR



Tuesday March 21, 12:30-17:10



Ritz, Kirkkopuistikko 22

The Energy Business Forum highlights the energy sector investments and business opportunities in selected countries. Apart from business opportunities in Sweden, the forum also covers market and “soft landing” opportunities in Canada, Great Britain, USA, Africa, Estonia, Scotland and in Hong Kong. So, if you are interested in the present international business opportunities in the ENERGY and CLEANTECH sectors, this is the forum for you! It is a unique opportunity to learn more and establish the best contacts in the present energy market hot spots!

PROGRAMME

12:30 Registration

13:00 Welcome and opening of the event

Mr. Tomas Häyry, Mayor of Vaasa, City of Vaasa

Ms. Sarah Price, British Ambassador to Finland. British Embassy Helsinki

13:10 GREAT BRITAIN

Mr. David Cairns, British Ambassador to Sweden. British Embassy Stockholm

“Business and investment opportunities in the energy sector in the UK”

13:40 USA

Justin Dutram, Director of Business Development. Tech Parks Arizona

“Partnership for fast growing technology companies with market access to North America, product development support, manufacturing assistance, and business development through the comprehensive suite of services”

14:10 TUNISIA

Chiheb Rebai, Deputy Chief Executive Officer. SACEM
“SACEM GROUP, Towards Product Line Extension for Africa and Middle East”

14:30 Refreshments and Energy Business NETWORKING

15:00 HONG KONG

Mats Gerlam, Investment Promotion Executive in the Nordics. Invest Hong Kong

“Business opportunities in China/Hong Kong within the

Stephen Fox, CEO. Panliska LTD

“Scotland-opportunities after BREXIT”

15:40 ESTONIA

Maret Sall, Cleantech Innovation Lead. Startup Estonia

“Estonian Cleantech startups and programs. What cooperation is offered to bigger energy companies?”

Sulev Alajõe, Investor consultant, West Estonia. Estonian Investment Agency

“Estonian economic ecosystem at a Glance. Developments in the energy sector, important aspects for the attention of Nordic companies”

16:10 SWEDEN

Peter Hedman, Project Manager. Cleantech Kvarken and Cleaner Growth, Kompetensspridning i Umeå

“Cross-border cooperation in business development and internationalisation”

16:25 FINLAND

Rune Westergård, Entrepreneur and Author.

Citec Oy Ab. “One planet is enough”

Sture Udd, CEO. UpCode/ UPC Centre

“Experiences of international business”

16:55 Conclusions

17:05 Refreshments and Energy Business NETWORKING

18:00 End of the event

19:00 EnergyWeek evening event at Fontana

Hovioikeudenpuistikko 15

(NOTE: Separate registration required on the



Contact

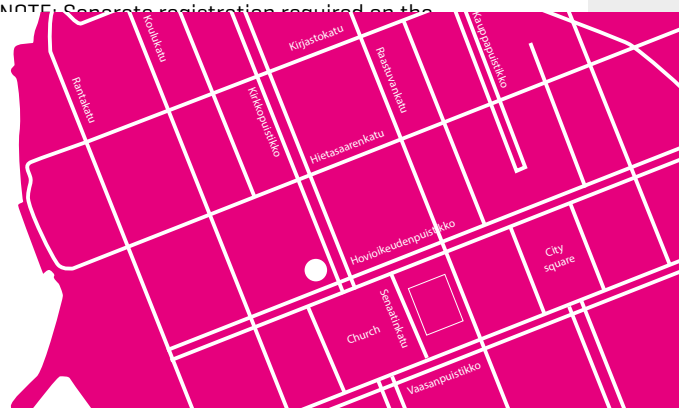
Got a question? Ask Triinu or Johan:

TRIINU VARBLANE

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Tel. +358 [0]44 332 3134

JOHAN WASBERG

Technology Centre MERINOVA
Tel. +358 [0]40 346 4658



WELCOME WORDS BY



SARAH PRICE

British Ambassador to Finland. British Embassy Helsinki. Great Britain

Sarah Price is the British Ambassador to Finland since 2013. She has also served in Helsinki in two previous occasions, in 1992 and 1999, as well as in Belgrade and Prague, among other things. Ms Price joined the Foreign and Commonwealth Office in 1990.



TOMAS HÄYRY

Mayor of Vaasa, City of Vaasa. Finland

Tomas Häyry is the Mayor of the City of Vaasa and was appointed Mayor in August 2011. Prior to this he served as Acting Mayor, Director of the Technical Sector, and Director of City Planning and Development.

KEYNOTE SPEAKERS



DAVID CAIRNS

British Ambassador to Sweden. British Embassy Stockholm. Great Britain

David Cairns is the British Ambassador to Sweden and the FCO's Director for the Nordic Baltic Region. Prior to Sweden, he has served in Japan and Geneva and held a number of positions in London. Mr Cairns joined the Foreign and Commonwealth Office in 1993. In his presentation, Ambassador David Cairns will discuss the UK energy sector and the business, investment and cooperation opportunities for Finnish and Swedish companies in the UK, as well as the work the UK does around climate change and energy issues in the Nordic Baltic Region.



CHIEB REBAI

Deputy Chief Executive Officer. SACEM

Chiheb Rebai is working for elaborating industry leading Smart Grid solutions with a diverse set of products in Africa, Middle-East and Europe. He is also a panelist for an accountable funding agency and TCP member in various scientific and industrial journals and conferences. Wind Energy, Energy Efficiency, Smart Grid, Micro Grid, Scada System, Waste to Energy.



JUSTIN DUTRAM

Director of Business Development. Tech Parks Arizona

"Partnership for fast growing technology companies with market access to North America, product development support, manufacturing assistance, and business development through the comprehensive suite of services". "Justin Dutram is responsible for the attraction, expansion and retention of technology companies. Through the Global Advantage program, Tech Parks Arizona and Tucson, Arizona provide an ideal location for Finnish and Swedish advanced energy and cleantech companies to enter the US and North American markets, due to its geographic location and proximity to large markets; the region's world class technology sector strengths and product development support in advanced energy, optical sciences, aerospace and defense, and mining innovation; and high quality manufacturing solutions and business development support."



MARET SALL

Cleantech Innovation Lead. Startup Estonia

"Estonian Cleantech startups and programs. What cooperation is offered to bigger energy companies?" "Marit Sall is passionate about building a collaborative platform, that helps to foster cleantech entrepreneurial ecosystem. She is leading the world's largest cleantech business ideas programme ClimateLaunchpad in Estonia and managing Europe's main climate innovative initiative - Climate-KIC activities in Estonia. She is the contact person for international partners interested in cleantech."



MATS GERLAM

Investment Promotion Executive in the Nordics. Invest Hong Kong

"Business opportunities in China/Hong Kong within the energy and clean tech sector". "Mats Gerlam has been assisting Nordic based companies in their internationalization since 2003. Many Cleantech companies have shown interest in finding partners in Hong Kong since Asian countries are pushing the development of renewable-energy options (biomass, solar and wind power). Invest Hong Kong offers solution oriented investment promotion, facilitation and after care services to ensure that companies have all the support required to establish or expand operations in Hong Kong. Their services are free of charge."



PETER HEDMAN

Project Manager. Cleantech Kvarken and Cleaner Growth, Kompetensspridning i Umeå, Sweden

Peter Hedman is the Project Manager of the Cleantech Kvarken and the Cleaner Growth projects. During the last 20 years, he has been working in leading positions in Västerbotten County Council, Region Västerbotten, Regionakademin, Uminova Innovation AB and other organisations.

**Ei mahdu millään kahdelle
sivulle kaikki**

International Contacts & Business in Energy-Cleantech-Investments-R&D Sectors



ENERGY REGULATION

#EnergyRegulation

SEMINAR



Wednesday March 22 2017, 12:30-17:30

Restaurant Central, Hovioikeudenpuistikko 21, Vaasa

Energy regulation is in motion. Finnish gas markets and their regulation are going through a fundamental change: from monopoly to competition. This transformation is driven through a government decision to open-up Finnish gas markets. Significant changes are also taking place in electricity markets and the Finnish regulation in this area. The drivers of the change in the power markets are different from those of gas: technological change, concerns of security of supply and changes in the roles of consumers to prosumers are all part of the bigger picture requiring regulatory changes. ENERGY LAW IN MOTION will examine and discuss these trends from an academic, industry and regulators perspective.

PROGRAMME

ENERGY LAW IN MOTION: FUTURE TRENDS IN REGULATING FINNISH ENERGY MARKETS

8:30 Registration

9:00 Welcome words by Chair for the day, **Kim Talus**

PART I : THE FINNISH ELECTRICITY MARKETS

Future of Finnish electricity market regulation

What are the future trends in electricity markets? How will local distribution networks be regulated? Are we moving to demand based network tariffs? Who pays for security of electricity supply? What do the users of the power system think? These are among the questions that the Energy Law event will focus on.

Organised in cooperation with EL-TRAN research consortium

9:15 The views of users: what do WE think?

Pami Aalto, Professor, University of Tampere, Director of EL-TRAN research consortium

9:45 Future electricity markets: how and where?

Satu Viljainen, Senior Expert, Fingrid Oyj

10:15 Demand based network tariffs

Pertti Järventausta, Professor of Electrical Engineering, Tampere University of Technology

10:45 Future changes and legal consequences

Kim Talus, Professor of Energy Law, University of Helsinki and UEF Law School

11:15 Discussion and wrap-up

12:00 LUNCH

PART II: FINNISH GAS MARKETS

The new regulatory framework for the Finnish gas markets: industry views

The Finnish gas markets are about to change. This change is driven primarily through government intervention and introduction of a new legislative framework. The central idea of the new Gas Market Act is to allow new companies to enter the markets and compete with the incumbent. How is this new framework seen by the industry, users of gas and the regulator?

13:15 **Kim Talus**

Opening of the afternoon session

13:30 **Kristiina Vuori**

Vice President, Legal Affairs and Human Resources, Gasum Oy

14:00 **Mikael Ohlström**

Senior Expert, Confederation of Finnish Industries - EK

14:30 **Antti Paananen**

Director, Energy Authority

15:00 Discussion and wrap-up

16:00 Join us for Cocktails and get together

After the seminar we invite You for cocktails and conversation at Restaurant Central hosted by Roschier, Attorneys Ltd.

KEYNOTE SPEAKERS



ANTTI PAANANEN

Director of Markets Unit, Energy Authority

Mr. Paananen has almost 20 years of experience with energy market regulation by working at the Energy Authority. As the Director of Markets Unit he is responsible for the supervision and development of wholesale and retail markets for electricity and natural gas. In addition to being a member of working groups at ACER, CEER and NordREG, he has worked in several ad hoc committees set by the Ministry of Economic Affairs and Employment for preparing national energy market legislation.



MIKAEL OHLSTRÖM

Chief Policy Adviser with the responsibility of energy and climate policy related lobbying, Confederation of Finnish Industries EK

Mr. Ohlström has a M.Sc. degree in Energy Technology and Environment Protection from Aalto University. He represented EK in the working group which canvassed the reform of the Natural Gas Market Act, appointed by the Ministry of Economic Affairs and Employment.



PAMI AALTO

Professor of International Relations at the School of Management, University of Tampere

Mr. Aalto leads a large consortium funded by the Strategic Research Council, which examines the transition of the electric energy system into a more resource effective and climate neutral direction.



KRISTIINA VUORI

Vice President in charge of Legal Affairs and Human Resources, Gasum Group

Ms. Vuori is specialized in sector-specific legislation and competition law. She has participated in many M&A projects restructuring the gas and energy markets and various co-operation and other commercial arrangements between different market players. She acted as an expert representative in the working group set by the Ministry of Economic Affairs and Employment for the preparation of the new Natural Gas Market Act.



PERTTI JÄRVENTAUSTA

Professor and leader of the laboratory of Electrical Energy Engineering, Tampere University of Technology

The main interest focuses on the issues of Smart Grids from the grid and electricity market point of view. Mr. Järventausta has M.Sc. (Tech.) and Lic.Sc. (Tech.) degrees in Electrical Engineering from Tampere University of Technology and received the degree of Dr.Tech. in Electrical Engineering from Lappeenranta University of Technology.



SATU VILJAINEN

Senior Expert, Fingrid Oyj

Ms. Viljainen works with regulatory affairs and the European electricity market integration. She holds a D.Sc. and M.Sc. degrees in electrical engineering from Lappeenranta University of Technology where she has worked as a professor of Electricity Markets. Her research interests included the Nordic, European and Russian electricity markets, consumer behavior in the Finnish electricity sector, and the economic regulation of electricity distribution networks.



KIM TALUS

Professor of Energy Law, UEF Law School and University of Helsinki

Dr. Talus is also the co-Director of the Center for Climate Change, Energy and Environmental Law and the Editor-in-Chief for OGEL. Dr. Talus also acts as an Of Counsel at Eversheds and has worked widely with energy issues from upstream oil and gas to renewable energy, waste-to-energy as well as energy efficiency related legal and regulatory matters for both governments and the industry.



Contact

Got a question? Ask Kim or Cea:

KIM TALUS

University of Helsinki
kim.talus@uef.fi
+358 [0]50 442 3315

CEA MITTLER

University of Helsinki
+358 [0]40 9000 528



CYBER SECURITY & DIGITALIZATION

#CyberDigi

SEMINAR



Wednesday March 22, 8:30-16:00
Ritz, Kirkkopuistikko 22

Today's society is heavily dependent on reliable production and transmission of energy. Without a constant energy supply the Internet wouldn't work for long, and without the Internet today's society wouldn't work for long. That's because there are so many online services available today and in many cases it would be hard, if not even impossible, to deliver the service without the Internet connection.

Digitalization is changing our everyday living in many sectors, like we have seen in banking or retail markets. But it is a hot topic in the energy sector too. New digital innovations can change our everyday living by providing new ways to control our homes and appliances,

but they can also help us conserve energy. All this requires proper ways to collect, store and process the data considering both Cyber Security and Privacy aspects.

PROGRAMME

CYBER SECURITY SESSION

- 8:30** Registration
- 9:00** Opening & welcome speech
Pekka Vepsäläinen, Development Manager, Jykes Oy
- 9:30** Cyber security in the Energy Sector
Mats Warg, Engineering Manager, VEO Oy
- 10:00** Research Collaboration with Energy Company: Case CIRP Project
Viivi Nuojua, Project Manager, Jyväskylän Energia Oy & University of Jyväskylä
- 10:30** EU GDPR - new responsibilities and liabilities for organisations
Charlotta Henriksson, Legal Counsel, KPMG Oy Ab
- 11:00** Panel Discussion
- 12-13** Lunch break

DIGITALIZATION SESSION

- 13:00** Opening of the afternoon session
- 13:15** Global views on Digital Innovations in Energy Sector
Ari Tolonen, CEO, Landis+Gyr Oy
- 13:45** Datahub
Pasi Aho, Managing Director, Fingrid Datahub Oy
- 14:15** 10 Things Utilities Could Do With Customer Data
Lauri Anttila, Business Development Manager, Futurice Oy
- 14:45** Digitalization of Power Distribution
Tuomas Vanhanen, Area Sales Manager, ABB Oy
- 15:15** Digitalization: Real world IoT success stories
Mathias Grädler, IoT-Ticket Product Manager, Wapice Oy
- 15:45** Closing remarks

KEYNOTE SPEAKERS

kuva
puuttuu

PEKKA VEPSÄLÄINEN

Development Manager, Jykes Oy

Pekka Vepsäläinen is heading Cyber Security theme at Tekes's Innovative Cities program. He has advised and mentored organizations in different sectors from start-ups and SMEs to larger organizations about how to take cyber security as part of everyday operations and innovation development. He emphasizes the role of each individual as a success factor in Cyber Security of organizations.



MATS WARG

Engineering Manager Automation, VEO Oil and Gas power plants department

Mats has more than 15 years of global working experience in the power plant and marine business. First working as Project Engineer with programming and commissioning tasks, later on as Engineering Manager. As engineering manager he has the task of coordinating the engineering resources with continuous development of their skills as well. An important role is to lead the technical development of the systems delivered and actively follow the new inventions available on the automation market.



VIIVI NUOJUA

Project Manager, Jyväskylän Energia Oy, Project Researcher, University of Jyväskylä

Viivi has a master's degree in statistics. She works three days a week at Jyväskylän Energia Oy, where she coordinates two cyber security projects and takes part in the overall cyber security development. In addition, she is a doctoral student and works two days a week at the University of Jyväskylä. Her specialties are cyber security and data analysis.



ARI TOLONEN

CEO Northern Europe, Landis+Gyr

Ari Tolonen currently serves as CEO Northern Europe of Landis+Gyr. Mr. Tolonen has responsibility for Landis+Gyr operations in Northern Europe region which include all Nordic (Finland, Sweden, Norway, Denmark, Iceland) and Baltic (Estonia, Latvia and Lithuania) countries. Mr. Tolonen has over 30 year expertise in ICT and Energy business, system and solutions.



PASI AHO

Project Manager, Fingrid Datahub program, Managing Director, Fingrid Datahub Oy

Pasi has over 20 years' experience from different TSO's business areas. He has been 10 years as manager of balance service department and deeply involved in the Nordic balance settlement harmonisation project. Last years he is more concentrated on the electricity retail market issues. Pasi was also Project Manager of Finnish datahub study in the year 2014.



MATHIAS GRÄDLER

Product Manager for IoT-TICKET®, Wapice

Mathias helps transform industrial companies into digital champions to create a better future. With over 1.6 million users IoT-TICKET is a complete, modern and easy-to-use Internet of Things platforms. For more information visit IoT-TICKET.com



LAURI ANTILA

Futurice

Lauri has long history of developing new innovative things for energy companies. Before his current job at Futurice he worked at Elenia - the 2nd largest electricity distribution company in Finland - where he was responsible of designing new digital services for internal and external use.



TUOMAS VANHANEN

30, Master of Science (tech), author of Valot Päälle! and Area Sales Manager at ABB

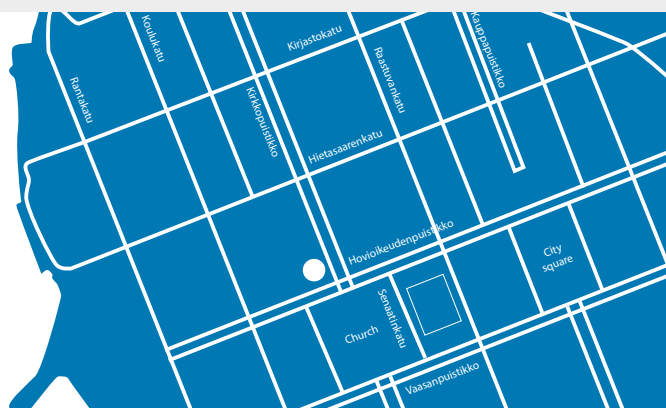
The reason that I'm active in the energy discussion is the need for well founded arguments on which direction Finland and EU should take when fighting global warming. There is need for objective discussion, argumentation and decision making. Important parts of the road map are Smart Grids and digitalization. Electric vehicles, demand response and other solutions can help us in building a sustainable future energy system.

charlotta
kuva viallinen

CHARLOTTA HENRIKSSON

CIPP/E Certified Information Privacy Professional, Legal Counsel and the Head of Data Privacy Law Team of KPMG

Charlotta and her team advise clients in data privacy law and GDPR including e.g. GDPR projects, data privacy agreements and documentation.



Contact

Got a question? Ask Pekka or Esko:

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Company Jykes Ltd.

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ESKO ALA-MYLLYMÄKI

Technology Centre MERINOVA

esko.ala-myllymaki@merinova.fi

+358 [0]40 591 2882



ENERGY MATCH

#EnergyMatch

OTHER



March 22-23, 10:00 - 16:00



Vaasa City Hall (Senaatinkatu 1)

Energy Match is a quick and easy way to meet potential cooperation partners. High speed meetings are perfect for first impressions and new contacts!

MATCHMAKING EVENT



ENERGY MATCH – WHAT TO DO?

1. Register in the online matchmaking tool, on 15 March 2017 at the latest.
www.b2match.eu/energymatch2017
2. Send meeting invitations to other participants. Note that you do not need to agree specific times to meet – the organizers schedule the meetings for 22-23 March 2017 based on the participants' availability and accepted meeting invitations.
3. Receive your personal meeting schedule by email on 20 March 2017
4. Prepare for the meetings
5. Meet potential cooperation partners on 22-23 March 2017
6. After the event, give feedback about the event and the meetings to the event organizers

The event is free of charge, however registration is mandatory.

Energy Match is organized by Enterprise Europe Network, the largest business support organization in Europe, in cooperation with EnergyWeek organizers. We offer support before, during and after the event, e.g. by helping you to formulate an informative cooperation profile, accompanying you to your meeting, following up with each of the companies you have met during the matchmaking event, etc.



Contact

Got a question? Ask Satu:

SATU ALAPIHA

Enterprise Europe Network

Turku Science Park

satu.alapiha@turkusciencepark.com

+358 (0)50 3830355





SALES CAFÉ

#SalesCafe

OTHER



Wednesday March 22, 12:30-16:45



Hanken School of Economics, Kauppapuistikko 2
[entrance from Kirjastokatu 16]

Sales Café is in town again! Get the latest tips and tools for making your sales grow. Join to meet colleagues, professionals, and to strengthen your network. Get inspired, contribute, and pls. have a "take-away" to your own business!

PROGRAMME

12:00 Registration begins
13:00 Welcome to Sales Café
13:15 **Dr. Petri Parvinen's** lecture
14:15 First session
Topic 1: Customer Analytics
Topic 2: Networking As Sales Tool
15:00 Break and changing of tables

15:15 Second session
Topic 1: Customer Analytics
Topic 2: Networking As Sales Tool
16:00 Break
16:10 Panel discussion
16:45 Ending of the event

KEYNOTE SPEAKER



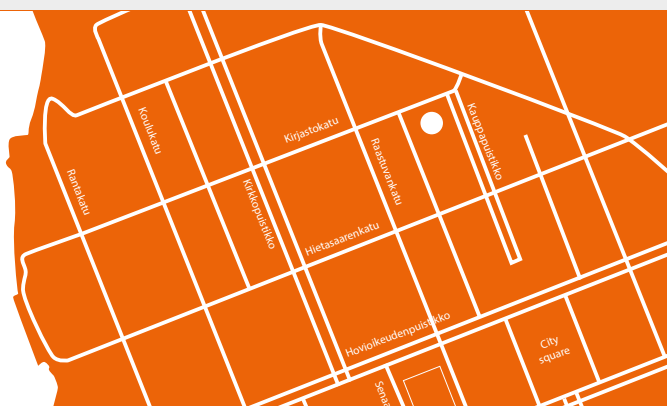
DR. PETRI PARVINEN

*Professor of Strategic Marketing and Management
University of Helsinki, Finland*

Dr. Parvinen works as Full Professor of Strategic Marketing and Management at the University of Helsinki and as part-time Professor of Sales

Management at the Aalto University Department of Industrial Engineering and Management. Dr. Parvinen has worked with over 200 organizations, reinforcing commercial and business thinking particularly in environments where it has not spawned naturally. Dr.

Parvinen continuously works a multi-entrepreneur, salesman and consultant internationally. He has personally founded 14 companies and is keen to share his successes and failures e.g. as a Leader at the Aalto Venture Program and frequent Visiting Scholar at Stanford University. He is a popular worldwide lecturer, a non-executive director and a board member in various corporations. In a book review, Dr. Parvinen has been pegged "an academic enfant terrible, whose uncontrollable power of expression is something new and fresh from the academic community".



Contact

Got a question? Ask Lasse or Pauliina:

LASSE POHJALA

Vaasa Region Development
Company VASEK
lasse.pohjala@vasek.fi
+358 [0]400 629 388

PAULIINA PALOMÄKI

Wärtsilä Marine Solutions, Engines
pauliina.palomaki@wartsila.com
+358 [0]40 593 2698



ENERGYSPIN FORUM

#EnergySpin

SEMINAR



Thursday March 23 12:30-17:00



Festive Hall, Vaasa-opisto [Raastuvankatu 31]

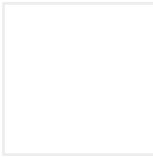
EnergySpin is a forum where world class energy startups and talents meet with international investors and executives. EnergySpin Forum features top tier speakers ranging from business founders and experienced investors to simply fantastic people behind the newest success stories within business.

[kuva tähän?](#)

PROGRAMME

- | | |
|--|--|
| 12:30 Registration | 14:40 EnergySpin – EnergyTech Business Accelerator Launch |
| 13:00 Welcome and opening speed | Official launch of global energytech accelerator program starting in August 2017, Marko Koski , EnergySpin Operations |
| 13:10 New Frontiers, Opportunities rising around the Globe
Marcelo Garcia , United Nations Smart Cities Expert and TMT Consultant; Strategy Execution Consultant in the areas of Smart Cities and Telecom, Expert with the UNECE PPP ICoE [United Nations Economic Commission for Europe; International PPP Centre of Excellence], TEDx Speaker | Call for mentor network, Anna-Kaisa Valkama , Merinova, Program Director |
| 14:00 VC's and Accelerators Changing how the Game is played: Case Energy Storage
Akash Bhavsar , Managing Director of SkyQuest Technology Group, Chief Architect of the Sustainable Development Goals Accelerator [SDGA]. | 15:00 Break |
| Fireside Chat
Mo El-Fataty , Founder & CEO at Masar
Ph. D David Brown , CEO BroadBit Batteries | 15:20 EnergySpin Top 30 Most Promising Energy Startups by Vaasa Entrepreneurship Society VES |
| | 15:40 Pitching & Speed dating session
Pitching session moderated by Emmi Kaipio , CEO Nordic Innovation Accelerator, TEKES and VES Vaasa Entrepreneurship Society |
| | Speed dating by Tekes and VES Vaasa Entrepreneurship Society |
| | 17:00 Networking with snack |

MODERATOR



JUKKA VIITANEN? VAIHTUUKO?

CEO Resolute HQ Inc

Consulting, training and coaching the top management in building successful innovation systems

TOP 30 ENERGY STARTUPS



As a part of EnergySpin Vaasa Entrepreneurship Society (VES) presents the result of an analysis of a bunch of potential energy startups. Which are the most promising ones and which are the innovators of tomorrow?

KEYNOTE SPEAKERS



MARCELO GARCIA

United Nations Smart Cities Expert and TMT Consultant

Strategy Execution Consultant in the areas of Smart Cities and Telecom, Expert with the UNECE PPP

ICoE (United Nations Economic Commission for Europe; International PPP Centre of Excellence), TEDx Speaker



AKASH BHAVSAR

Managing Director of SkyQuest Technology Group, Chief Architect of the Sustainable Development Goals Accelerator (SDGA).

xxxxx



MIKA TURPEINEN

xxxxx

Mika Turpeinen has wide and deep understanding of energy sector in Africa. He has been residing in Ethiopia nearly a decade and been working in various positions in large multinational company ABB Ltd as well as founding two start-up companies in Ethiopia



MO EL-FATATRY

Founder & CEO at Masar

Founder & CEO at Masar, a smart energy company specializing in rapidly-deployable off-grid electricity & wireless connectivity in the Middle East, Africa & the Global Sun Belt, TEDx Speaker



PH. D DAVID BROWN

CEO BroadBit Batteries, founding CEO of Canatu Inc

Ph. D David Brown, CEO BroadBit Batteries, founding CEO of Canatu Inc, Particle Stream Technologies, Teicos Pharma and StreamWise. More than 150 scientific articles, 200 patents and applications In 2014 and 2015, nomination for the European Inventor of the Year award.



MARKO KOSKI

EnergySpin Operations

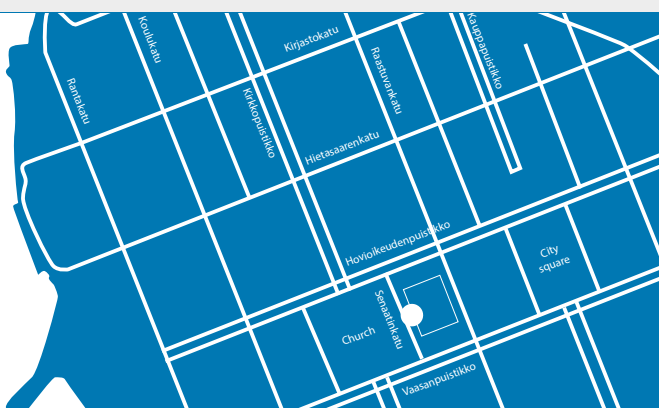
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ANNA-KAISA VALKAMA

Merinova, Program Director

xxxx



Contact

Got a question? Ask Marko:

MARKO KOSKI

EnergySpin – EnergyTech Business Accelerator Energizing the Future
marko.koski@vasek.fi
+358 (0)50 5615858



VAASA GAS EXCHANGE

#GasExchange

EXHIBITION



Thursday March 23 09:00-17:00



Vaasa City Hall [Senaatinkatu 1]

The Vaasa Gas Exchange [VGE] is an international networking event for energy experts, focusing on natural gas and biogas in all formats for power generation, transportation and shipping. The event will be held for the second time in 2017 and consists of an exhibition, an in-depth seminar and exhibitor briefings.

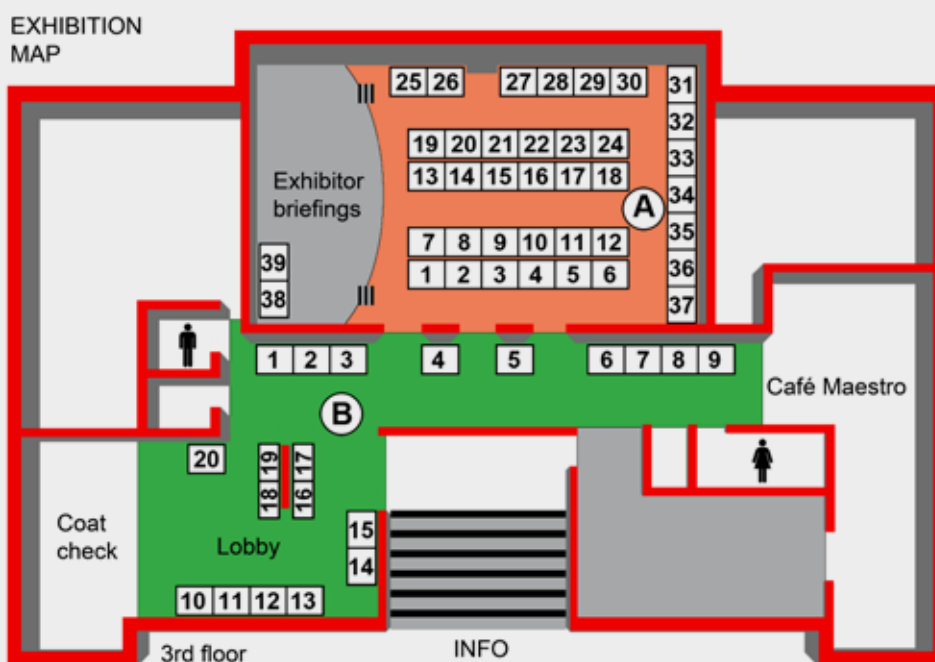
FIND OUT WHAT POSSIBILITIES BOOMING GAS MARKET OFFERS

VGE is held in the rapidly growing regional gas cluster. The cluster has several active companies and actors working together with innovative projects such as a new energy laboratory and gas fueling stations.

At VGE, enterprises will have the opportunity to meet other actors, driving forces and potential partners from Finland and abroad. During the event visitors can find out what possibilities, challenges

and alternatives the booming gas market offers currently and in the near future.

VGE is organised by the Vaasa Energy Institute in partnership with Gasum, Merinova, Stormossen, University of Vaasa, VASEK, Wärtsilä and the Åbo Akademi University.

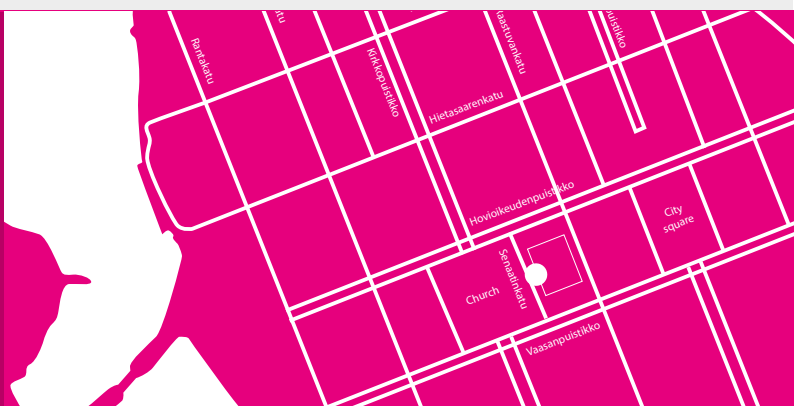


Contact

Got a question? Ask Teemu:

TEEMU NÄRVÄ

Vaasa Energy Institute
teemu.narva@vei.fi
+358 (0)400 817 006



VAASA GAS EXCHANGE EXHIBITORS

AMMONGAS A/S WWW.AMMONGAS.DK	B6		FUCHS OIL FINLAND OY WWW.FUCHS-OIL.FI	A29	
ASKALON AB, FILIAL I FINLAND WWW.ASKALON.FI	A32		GASMET TECHNOLOGIES OY WWW.GASMET.COM	B2	
BEIJING FORTUNE HIGH CO., LTD FORTUNEHIGH.COM	B16		GASUM WWW.GASUM.FI	A6	
BEUP AUTOMATION OY WWW.BEUP.FI	A15		GE ENERGY WWW.GE.COM/FI	A24	
TRANSALGAE, BOTNIA-ATLANTICA PROJECT WWW.BIOFUELREGION.SE/TRANSALGAE	A21		HÖYRYTYS OY WWW.HÖYRYTYS.FI	B14	
BIOGTS OY WWW.BIOGTS.FI	B1		MALMBERG WATER AB WWW.MALMBERG.SE	B14	
BRUGG-PEMA OY WWW.BRUGGPEMA.FI	B4		INSPECTA OY WWW.INSPECTA.COM	A33	
DETECTOR OY WWW.DETECTOR.FI	A13		IPEC WWW.IPEC.FI	B3	
ENDRESS+HAUSER OY WWW.FI.ENDRESS.COM	A35		IVECO FINLAND OY WWW.IVECO.FI	A8	
ENVIRONMENT & BIO SOLUTIONS AB ABEBS.SE	B7		JEPPU BIOGAS AB WWW.JEPPUBIOGAS.FI	A7	
TECON TEXTILE CONSTRUCTIONS GMBH WWW.TECON.BIZ	B7		KLINGER FINLAND OY WWW.KLINGER.FI	A11	
GLS TANKS INTERNATIONAL GMBH WWW.GLSTANKS.COM	B7		KLINKMANN OY WWW.KLINKMANN.FI	B20	
SIGA-TECH S.C. WWW.SIGATECH.PL	B7		KOKKO CONTROL OY WWW.KOKKO-CONTROL.FI	A10	
ESCARMAT WWW.ESCARMAT.COM	A22		KONTRAM OY WWW.KONTRAM.FI	B13	
EVERSHEDS ASIANAJOTOIMISTO OY WWW.EVERSHEDS.FI	A9		OY KONWELL AB WWW.KONWELL.FI	A18	
FESTO OY WWW.FESTO.COM	A12		KOSAN GAS FINLAND OY WWW.KOSANGAS.FI	B5	
FIMUSKRAFT OY WWW.FIMUSKRAFT.COM	A36		KOVARTEK OY WWW.KOVARTEK.FI	B11	
FLAMKONTROLL AB WWW.FLAMKONTROLL.SE	A34		KVARKEN PORTS LTD WWW.KVARKENPORTS.COM	A28	
			CITY OF VAASA - LOGISTICS DEVELOPMENT UNIT WWW.VAASA.FI	A28	

E12 ATLANTICA TRANSPORT
[WWW.KVARKEN.ORG/
PROJECTS/E12/](http://WWW.KVARKEN.ORG/PROJECTS/E12/)

A28

logo puuttuu?

LNGTAINER LTD.
WWW.LNGTAINER.COM

A19



MASINO INDUSTRY OY
[WWW.MASINO.FI/COMPANIES/
MASINO-INDUSTRY-OY/](http://WWW.MASINO.FI/COMPANIES/MASINO-INDUSTRY-OY/)

A20



VEHO OY AB
WWW.VEHOTRUCKS.FI

B17

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KÄYTTÖAUTO OY
WWW.KAYTTOAUTO.FI

B17



NESTE JACOBS OY
WWW.NESTEJACOBS.COM

B10



NORDIC GAS SOLUTIONS AB
WWW.NORDICGAS.COM

A4



OILON OY
WWW.OILON.COM

A30



OY SÄÄTÖ AB
WWW.SAATO.FI

B9

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RAMATOR OY
WWW.RAMATOR.FI

B12



RMV TECH OY
WWW.RMV-TECH.COM

A37



ROSCHIER, ATTORNEYS LTD.
WWW.ROSCHIER.COM

A23



SCANIA SUOMI OY
WWW.SCANIA.COM/FI/

B15



SICK OY
WWW.SICK.COM/FI/FI/

A17



STARLINE VALVES OY
WWW.STARLINE.FI

A14



AB STORMOSSEN OY
WWW.STORMOSSEN.FI

A3



SINTROL OY
WWW.SINTROL.COM

B18



SK PROTECT OY
WWW.PROTECT.FI

B8

logo tiedosto rikki

SULZER PUMPS FINLAND OY
[WWW.SULZER.COM/
SULZER-PUMPS-FINLAND](http://WWW.SULZER.COM/SULZER-PUMPS-FINLAND)

A31



UWIRA OY
WWW.UWIRA.FI

A26



TONISCO SERVICE OY
WWW.TONISCO.FI

A27



UNIVERSITY OF VAASA
WWW.UVA.FI

A5



VAHTERUS OY
WWW.VAHTERUS.COM

A25



VAASA ENERGY INSTITUTE
WWW.VEI.FI

A39



WESTENERGY OY AB
WWW.WESTENERGY.FI

A2



VISSMANN OY
WWW.VIESSMANN.FI

B19



**TEKNOLOGIAN
TUTKIMUSKESKUS VTT OY**
WWW.VTTRESEARCH.COM

A16



WÄRTSILÄ
[WWW.WARTSILA.COM/
OIL-GAS/](http://WWW.WARTSILA.COM/OIL-GAS/)

A1



ÅBO AKADEMI UNIVERSITY
WWW.ABO.FI

A38





VAASA GAS EXCHANGE

#GasExchange

SEMINAR



Thursday March 23 10:00-15:10



Vaasa City Hall [Senaatinkatu 1]

The Vaasa Gas Exchange [VGE] is an international networking event for energy experts, focusing on natural gas and biogas in all formats for power generation, transportation and shipping. The event will be held for the second time in 2017 and consists of an exhibition, an in-depth seminar and exhibitor briefings.

PROGRAMME

THEME: The Role of Gas in Sustainable Energy Development

CHAIRMAN: **Lasse Pohjala**, Senior Business Advisor, VASEK

10:00-12:00 FIRST SESSION

- 10:00** Opening words from chairman
- 10:05** Energy Policy in the European Parliament
Henna Virkkunen, Member of the European Parliament, European Parliament
- 10:35** The Role of Gas in the National Energy and Climate Strategy
Riku Huttunen, Director General, Energy Department, Ministry of Economic Affairs
- 11:00** Nordic Biogas Market Developing – Biogas as a Part of the Nordic Gas Ecosystem
Jukka Metsälä, Vice President, Biogas; Gasum
- 11:25** Building a Successful Mid-Scale LNG Terminal in Arctic Conditions
Kenneth Engblom, Director, Wärtsilä Energy Solutions & **Mika Kolehmainen**, CEO, Manga LNG
- 11:55** Summary from chairman

13:00-15:10 SECOND SESSION

- 13:00** Opening words from chairman
- 13:05** Status Quo and Future Prospects for Biogas as a Transport Fuel in Europe
Susanna Pflüger, Secretary General, European Biogas Association
- 13:30** Biomethane Production – Overview of Available Technologies
Leif Åkers, Managing Director, Ab Stormossen Oy
- 13:55** Future Industrial Biogas Production in the Nordics
Matti Vikkula, CEO, Scandinavian Biogas Fuels

14:20 Energy Systems in Transition Opens Up for Gas R&D

Margareta Wihersaari, Professor, Åbo Akademi University

14:45 Sustainable Transport and Methane Powered Vehicles

Johan Améen, Regional Manager, Scania Sverige AB

EXHIBITOR BRIEFINGS

CHAIRMAN: **Jouko Putkonen**, Energy Expert, Oy Merinova Ab

12:00-13:30 FIRST SESSION

- 12:00** iPEC Consortium
- 12:10** Wärtsilä
- 12:20** Ab Stormossen Oy
- 12:30** University of Vaasa
- 12:40** Gasum
- 12:50** Fuchs Oil Finland Oy
- 13:00** Roschier, Attorneys Ltd.
- 13:10** Nordic Gas Solutions AB
- 13:20** Eversheds Asianajotoimisto Oy

14:00-15:30 SECOND SESSION

- 14:00** TONISCO Service Oy
- 14:10** LNGTainer Ltd.
- 14:20** Neste Jacobs Oy
- 14:30** Beup Automation Oy
- 14:40** TransAlgae, Botnia-Atlantica project
- 14:50** Ramator Oy
- 15:00** Westenergy Oy Ab
- 15:10** Teknologian tutkimuskeskus VTT Oy
- 15:20** Klinkmann Oy

KEYNOTE SPEAKERS



HENNA VIRKKUNEN

Member of the European Parliament, European Parliament

Henna Virkkunen has been a member of the European Parliament since 2014 and is a member of the European People's Party (EPP). Her primary committee is the Committee on Industry, Research and Energy (ITRE). She is a substitute member of the committee on Transport and Tourism (TRAN).



RIKU HUTTUNEN

Energy Department, Ministry of Economic Affairs and Employment

Riku Huttunen is the Director General of the Energy Department at the Ministry of Economic Affairs and Employment of Finland. He has previously served as Director General of the Finnish Energy Authority and before that in several positions at the Ministry's Energy Department. He has also worked as Counsellor for the Ministry for Foreign Affairs in Finland's Permanent Representation to the European Union in Brussels. Riku Huttunen (born 1966) holds a Master's degree (M. Pol. Sc.) in Economics from the University of Helsinki.



JUKKA METSÄLÄ

Vice President, Biogas; Gasum

Jukka Metsälä is the vice president of biogas in Nordic's leading gas player, processor of biodegradable waste and supplier of organic fertilizers and biogas, Gasum. The Finnish energy company Gasum imports natural gas to Finland, offers LNG in Nordics and upgrades biogas in Finland and Sweden and transmits and delivers these for energy production, industry, homes, and land and maritime transport. The company processes waste and produces biogas at 12 biogas plants and 3 biogas joint plants together with partners located in Finland and Sweden. www.gasum.fi.



KENNETH ENGBLOM

Director, Sales & Marketing of LNG Infrastructure Solutions, Wärtsilä Energy Solutions

Kenneth Engblom (MSc) is Director, Sales & Marketing of LNG Infrastructure Solutions within Wärtsilä Energy Solutions. Kenneth graduated from Helsinki University of Technology, Finland with a Master degree in Mechanical Engineering. He joined Wärtsilä 1997 and have since that had various managerial positions in R&D, Project Management and Sales. Besides Finland, he has been stationed for longer times in Mumbai, Houston and Sydney during these years. In his current position Kenneth is leading the Sales and Marketing activities in Wärtsilä's LNG infrastructure business globally.



MARGARETA WIHERSAARI

Åbo Akademi University

Wihersaari has been acting as a professor in Energy Technology since 2012 at Åbo Akademi University. She has about 30 years of experience within energy and environmental technology research, mainly at VTT. Her research focuses on energy systems and especially future challenges and possibilities for improving sustainability of energy supply chains.



JOHAN AMÉEN

Regional Manager, Scania Sverige AB

Johan Améen is Business Manager at Scania Sweden and he's responsible for alternative fuels. Background from Scania, BPW, Volvo Cars and aviation.



SUSANNA PFLÜGER

Secretary General, European Biogas Association

Susanna Pflüger is EBA's Secretary General, in charge of the association's coordination and relations towards the EU institutions in Brussels. She is specialised in topics related to sustainability of biogas and biomethane's use as a transport fuel. Susanna joined EBA in 2012 and has experience from the interest representation in Brussels since 2010.



LEIF ÅKERS

Managing Director, Ab Stormossen Oy

Leif has over 27 years of experience in biogas production with biowaste and sewage sludge. He has been working with the development of Ab Stormossen Oy's biogasplant since 1988 and as Managing Director since 1990. He is also a member of the board in Finnish Solid Waste Association and in Nordic Waste Association.



MATTI VIKKULA

CEO, Scandinavian Biogas Fuels

M.Sc in Economics 1986 from the Helsinki School of Economics and IEP Insead. Mr. Vikkula has held several positions as CEO or SVP in such listed companies as Ruukki Group Oyj, Elisa Oyj and Saunalahti Group Oyj, as well as been a partner at PwC Management Consulting. He also holds/ has held board positions in several companies including Efore Oyj, AinaCom Oy and iTaito Oy.



MIKA KOLEHMAINEN

CEO, Manga LNG Oy

Mika Kolehmainen (MSc) is CEO of Manga LNG Oy and Manga Terminal Oy. Mika joined Manga companies in mid-2015 to establish the operations and business activities. Earlier he worked as VP Operations at Havator Oy with responsibility of operations in Finland and Baltic countries. Mika graduated in 1997 from University of Oulu, Finland with a Master degree in Civil Engineering and Logistics.



Contact

Got a question? Ask Teemu:

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Vaasa Energy Institute

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ENERGY & BUILDINGS

#EnergyBuildings

SEMINAR



Friday March 24 09:00-13:40



Vaasa City Hall (Senaatinkatu 1)

Ever since the first house was built, mankind has attempted to create an environment different from what the open air has to offer: a safer, healthier environment that provides physical comfort.

Today, we live in comfortable indoor environments, but heating, ventilation and air-conditioning systems inside our buildings are often still inefficiently operated, and the structure of the building can itself cause problems with the indoor environment.

Now that sustainability and the cost of energy have become central concerns, we need to take on the challenge of how to create safe, healthy

and comfortable indoor environments in an energy efficient way. And this is what the Energy & Buildings seminar focuses on this time.

Come and listen to experts, discuss with colleagues and meet companies with new and exciting solutions.

PROGRAMME

SEMINAR PART I

- 9.00** Welcome to the Energy & Buildings Seminar
Mauritz Knuts, Project Manager, Vaasa Region Development Company
- 9.05** Opening Speech; Energy-efficiency and sustainability in buildings – can we have both?
Anders Adlercreutz, Member of Parliament at Parliament of Finland / Architect
- 9.20** Main Sponsor Presentation: Building Automation and IoT
Harri Liukku, Sales Manager, ABB
- 9.40** Main Sponsor Presentation
Jyrki Keskinen, Segment leader of Business Solutions, Wapice
- 10.00** Networking break and possibility to visit the exhibition

SEMINAR PART II

- 10.30** “Energy savings measures” Do they work? Measuring energy efficiency measures accurately and lessons learned from a wide range of experiments
Richard Fitton, Lecturer in Energy Efficiency, Applied Buildings and Energy Research Group, University of Salford

- 10.50** Impact and future challenges of European research for energy efficient buildings
Frances Bean, Project Manager, Buildings Performance Institute Europe (BPIE)
- 11.10** Renovation of Buildings for Energy Efficiency
Rajnish Kaur Calay, Head of research group, Institute for Building, Energy and Materials Technology, UiT Norway’s Arctic University
- 11.30** Networking and lunch break, and possibility to visit the exhibition

SEMINAR PART III

- 13.00** Energy efficient thermal comfort-theory and practice
Bin Yang, Assistant Professor in Energy Engineering, University of Umeå
- 13.20** Effects of improved energy efficiency on indoor environmental quality, health and wellbeing - results from INSULatE-project
Ulla Haverinen-Shaughnessy, Senior Researcher, Tampere University of Technology / National Institute for Health and Welfare
- 13.40** Smart Buildings in Europe
Isabel Pinto-Seppä, ECTP The European Construction, built environment and energy efficient building Technology Platform / VTT

KEYNOTE SPEAKERS



ANDERS ADLERCREUTZ

Member of Parliament at Parliament of Finland / Architect

Anders Adlercreutz is a Member of Parliament and an architect. After a long career as an architect and entrepreneur, he entered politics on a local level in 2012 and was elected to Parliament in 2015. In Parliament, he has focused on issues concerning the environment, energy and sustainability. He is one of the founding members of the Energy-reform group in the Finnish parliament.



HARRI LIUKKU

Sales Manager, ABB

Harri Liukku works as sales director responsible for the construction industry at ABB Finland. Liukku has more than 15 years of experience in automation for both commercial and residential construction.



RICHARD FITTON

Lecturer in Energy Efficiency, Applied Buildings and Energy Research Group, University of Salford
Richard is the lead researcher in the Energy House Research Facility at the University of Salford. His

main research interests are in the measurement of building energy performance. Richard was as a Building Surveyor for 12 years before becoming an academic in the area of building physics.



ISABEL PINTO-SEPPÄ

ECTP The European Construction, built environment and energy efficient building Technology Platform / VTT

Isabel has Interdisciplinary expertise in clean tech, sustainable built environment, Smart Cities and in the construction and forest products industry. She is also experienced in R&D management, international project coordination and research policy making.



RAJNISH KAUR CALAY

Head of research group, Institute for Building, Energy and Materials Technology, UiT Norway's Arctic University

Rajnish Calay has a broad engineering background with Bachelors in Civil Engineering from India and masters and PhD in Mechanical Engineering from Cranfield University, UK. She has worked at universities in the UK and industry in the UK and India. At present Rajnish is research leader at Institute of Building, Energy and Material technology at University of Tromsø.



BIN YANG

Assistant Professor in Energy Engineering, University of Umeå

Bin Yang is an Assistant Professor in the Research Lab in Energy Efficiency with a focus on Buildings at Umeå University in Sweden. He got his Ph.D. degree from Technical University of Denmark and National University of Singapore. He is a researcher with more than 10 years research experience in thermal comfort, indoor air quality, building energy efficiency and HVAC.



ULLA HAVERINEN-SHAUGHNESSY

Senior Researcher, Tampere University of Technology / National Institute for Health and Welfare

Ulla Haverinen-Shaughnessy is a Docent of Healthy Buildings at Tampere University of Technology, Finland, a Visiting Professor at the University of Tulsa, USA, and a Senior Researcher at the National Institute for Health and Welfare, Dept. of Health Protection, Finland.



FRANCES BEAN

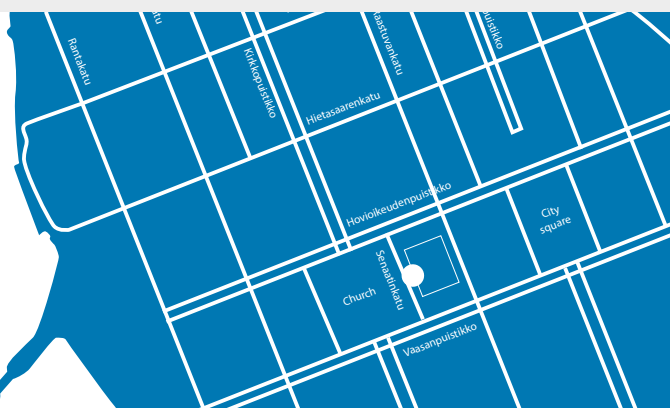
Project Manager, Buildings Performance Institute Europe (BPIE)

Frances has worked in the energy efficiency, climate change and the wider environmental policy field for over 9 years. Prior to joining BPIE, she was Policy Director at Stefan Scheuer Consulting, working on energy efficiency policies for a range of clients including the European Climate Foundation and the Coalition for Energy Savings.



JYRKI KESKINEN

Segment leader of Business Solutions, Wapice Oy
XXXXX



Contact

Got a question? Ask Mauritz:

MAURITZ KNUTS

Vaasa Region Development Company

+358 (0)50 306 8419



ENERGY & BUILDINGS

#EnergyBuildings

EXHIBITION



Friday March 24 09:00-13:40



Vaasa City Hall (Senaatinkatu 1)

The construction sector expert event Energy & Buildings is arranged as part of the Vaasa EnergyWeek. The event focuses on topics related to energy efficiency as well as construction and automation solutions for new build and refurbishment purposes.

PROGRAMME

NOTE!
SOME OF THE
BRIEFINGS ARE
HELD IN FINNISH
LANGUAGE

7.00-9.00	Stand set-up
9.00-15.00	Exhibition is open
9.00-	Visitor registration
9.00-10.00	We start the day (for all participators)
10.30-11.30	Seminar part 1
13.00-14.00	Seminar part 2
10.00-14.00	Exhibitors' briefings

EXHIBITORS BRIEFINGS

10.00	Ilmanvaihdon lämmöntalteenotto ja energiatehokkaat ilmanvaihtoratkaisut Markus Castrén , Toimitusjohtaja, DI, Retermia
10.30	Lumizone Smart Poles & Smart Lights Tomi Lindström , CEO, Partner, Lumizone Global Oy
11.00	Parempi sisäilma kuuluu kaikille Petri Hänninen , Vanhempi erityisasiantuntija, Skaala
11.30	Noise and breaking cause energy inefficiency. Can we do anything about them? Anton Salmi , Business Development Manager, Hammerglass

12.00	Aurinkosähköä 36 vuoden kokemuksella -mitä olemme oppineet. Markus Andersén , Myyntijohtaja, Naps Solar Systems
12.30	Miksi luvattua energiatehokkuutta ei saavuteta? Laskelmista käytäntöön Hanna Stammeier , Energia-asiantuntija, SWECO
13.00	Wasa Station - Pohjolan energiapääkaupungin kohtaamispaikka, Mötesplatsen för Nordens energihuvudstad Mikael Snellman , Aluejohtaja, Lemminkäinen
13.30	Wasa Station energiaratkaisut ja MOBO energioptimoinnit Ville Reinikainen , Toimialajohtaja, energia, Granlund Consulting Oy
14.00	Jätteenkeräys kustannustehokkaasti, hiilijalanjälkeä vähentämällä Jenni Rahkonen , Tutkimusinsinööri, jätehuollon tutkimus- ja koulutustehtävät, Molok Oy
14.30	Tehokas ja terveellinen rakennus - Rambollin toiminnanvarmistuspalvelu Markku Ahonen , Johtava konsultti, Ramboll Finland Oy

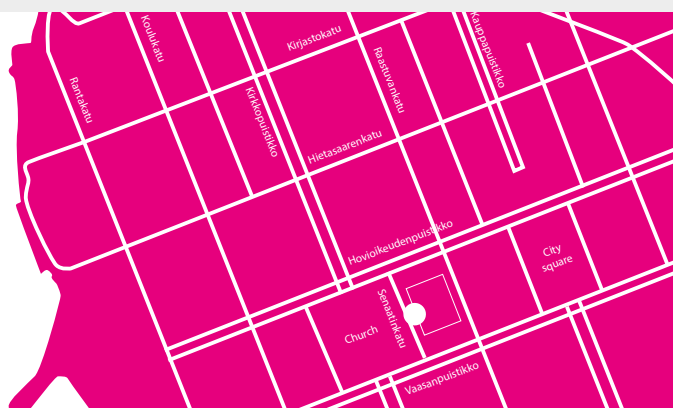


Contact

Got a question? Ask Markus:

MARKUS SJÖBERG

Pohjanmaan Expo Oy
+358 (0)40 138 4606



EXHIBITOR BRIEFINGS SPEAKERS

MARKUS CASTRÉN

Toimitusjohtaja, DI
Retermia

HANNA STAMMEIER

Energia-asiantuntija
SWECO

TOMI LINDSTRÖM

CEO, Partner
Lumizone Global Oy

MIKAEL SNELLMAN

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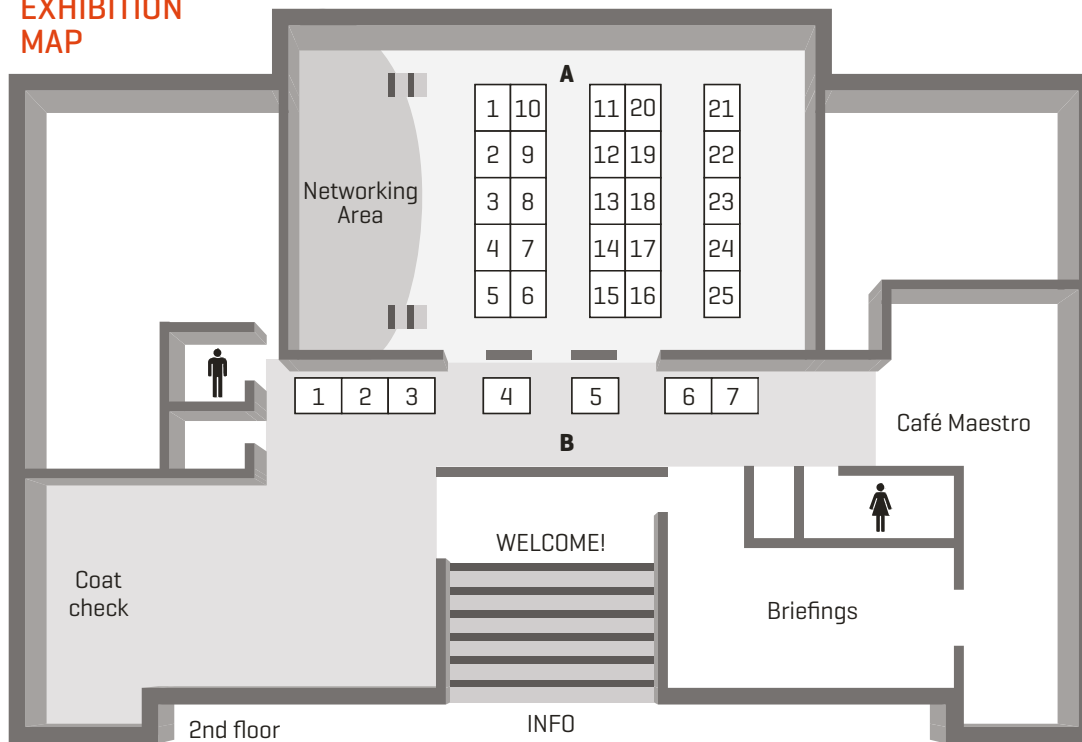
MARKUS ANDERSÉN

Myyntijohtaja
Naps Solar Systems

MARKKU AHONEN

Johtava konsultti,
Ramboll Finland Oy

EXHIBITION MAP



ENERGY & BUILDINGS EXCHANGE EXHIBITORS

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NOVOSAN OY
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novosan

CAVERION SUOMI OY
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Caverion

PREVEX OY
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PREVEX

FINPRO
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RAMBOLL OY
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RAMBOLL

GRANLUND POHJANMAA OY
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RETERMIA
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RETERMIA

HAMMERGLASS FINLAND
HMGFINLAND.FI

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HIKVISION

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SKAALA

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Lemminkäinen

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VEO is an energy expert offering automation and electrification solutions for power generation, power distribution and process industry. Renewable energy solutions have played a strong part in deliveries from the very beginning in VEO's history. VEO's head office and factory is located in Vaasa, Finland.

VEO.FI



Wapice is a leading Technology Partner for industrial businesses. With their software and electronics expertise Wapice creates solutions that boost industrial innovation and enhance the clients' performance across all functions

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Wärtsilä is a global leader in advanced technologies and complete lifecycle solutions for the marine and energy markets. The company has operations in over 200 locations in more than 70 countries with approximately 18,000 employees.

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ARCTEQ.FI



Citec provides multi-discipline engineering and information management services to the Energy industry, and other technology-dependent industries. Citec helps their customers deliver sustainable solutions that supply the society with the energy it needs. They offer services according to local presence & global resourcing models - 1300 employees and operations in 11 countries.

CITEC.FI



EPV Energy Ltd is a Finnish energy company specialized in the generation and supply of electricity and heat. It procures or produces around 5 % of all the electricity used in Finland. The company's objective is to gradually refine its energy acquisition towards lower emissions.

EPV.FI



Westenergy is a strong link between municipal waste treatment and energy production: The company owns and operates a modern Waste-to-Energy plant where energy in combustible waste is transformed into electricity and district heating in an efficient, safe and clean way. The plant is also open for visitors.

WESTENERGY.FI

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The Nordic Leader in Energy Technology

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OF WHICH ARE **GLOBAL
MARKET LEADERS** IN
THEIR FIELD

EUR



4.4

BILLION ANNUALLY

EXPORT
RATE OVER

80%

30%



OF FINLAND'S TOTAL
EXPORT IN **ENERGY
TECHNOLOGY**

CURRENT NUMBER OF
EMPLOYEES:

11,000



25%

OF TOTAL MANPOWER
IN THE FIELD OF
ENERGY IN FINLAND



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