MICHAEL OEHLANDT

Born in 1963, citizen of Finland and Germany

Education	B.Sc., Higher Institute of Technology, Kotka, Finland; Measurement and Control, December 1985
Languages	Finnish, German, English, Swedish
Specialty	Power plant automation Mr. Michael Oehlandt has over 38 years of experience in engineering and commissioning of many power plants.

Oehlandt Energy Oy Experience 2006 –

2024	Valmet (VKJ), Vilnius, Lithuania Site supervision for CHP plant supervisory controls.
2023	Afry (Adven), Seinäjoki Site supervision.
2023	Afry (IP, Flint River), USA Site supervision.
2023 & 2024	Stora Enso Oulu Finland Designing a new steam-levelling control system for the Oulu mill.
2023	Mercer Stendal Germany Optimizing work on many pulp mill areas.
2022	Afry (Adven), Seinäjoki Assistance on steam balancing system.
2022	Afry (Irving), Canada Steam net overall control diagram for simulation.
2022	Afry (IP, Flint River), USA Assistance on steam balancing system.

2022	Afry (Hamburger) Hungary Steam net overall control diagram for simulation.

2022 Afry (Hamburger) Hungary
Steam net overall control diagram for simulation.

2022 Afry (IP Riverdale), Alabama, USA
Steam net analysing/optimising at site.

2022 Afry Husum (Metsäboard), Sweden
Assistance on steam balancing system.

2022 Mercer Stendal Germany
Optimizing work on many pulp mill areas.

2021 Afry Lucite, Cassel, UK
Assistance on steam balancing system.

2021 Steinmüller Babcock Environment, Lithuania
Start-up assistance (testing/tuning/training) for CHP plant supervision controls.

2021 Mercer Stendal Germany
Optimizing work on many pulp mill areas.

2020 SCA Obbola Sweden
Assistance on steam balancing system.

2020 Mercer Stendal Germany
Optimizing work on many pulp mill areas.

2020/21 Steinmüller Babcock Environment, Lithuania
Design and optimising the supervisory control for a CHP plant (1 waste boiler, 2 bio boilers, 2 steam turbines and district heat.)

2019 Mercer Stendal, Germany
Designing and optimising of Lime Kiln automatic operation system.

2019 Mercer Stendal, Germany
Designing and Optimising Bark Boiler load control concept. This related to plant demands.

2018 Mercer Stendal, Germany
Optimizing Pulp mill departments. (E.g. causticizing).
Updating the controls for the steam levelling by the control system change of Turbine 1.

2018 UPM Shotton, UK
Optimization of the steam levelling system to the new steam demand.

2017 UPM Shotton, UK
Analysing the steam-net dynamic. Based on that rebuilding the steam net

control/operation concept for today's needs.

2017	SCA Obbola, Sweden

Analysing the steam-net dynamic. Based on that rebuilding the steam net control/operation concept for today's needs.

2014-17	Zellstoff Stendal Germany

Optimizing pulp mill departments.

2016	Dolphin Energy Limited Qatar

Steam net and boiler tuning to increase reliability of the plant.

2013	Zellstoff-Papierfabrik Rosenthal GmbH Germany

Optimizing the steam levelling system for increased steam production.

2012/13	Zellstoff Stendal Germany

Updating and extending the steam net control system (Power management). Site supervision.

2012	Blackburn Meadows England Renewable Energy Plant

Assistance on steam controls.

2011/12	Pöyry Ltd Thailand

Consulting work as a Senior C&I Engineer on Gulf project (14 GT: s, 14 HRSG: s & 7 ST: s).

2011	UPM Caledonia, Scotland

Optimizing the biofuel boilers air controls.
Inspecting the functionality off all boiler/steam controls.

2011	IP Riverdale, Alabama, USA.

Optimization of the steam-leveling system including boiler controls.
Site supervision.

2011	Porin Prosessivoima Oy, Pori, Finland

Assistance by turbine and steam levelling controls. Site supervision.

2011	M-Real Oyj, Simpele, Finland

Study for the steam control structure of the plant. The study is based on the planned process steam demand changes.

2010	UPM Chapelle Darblay, France

Extending the 2005 build steam levelling control system by a condensing turbine. Site supervision.

2010	UPM Caledonia, Scotland

Operator training.
Optimizing the plant steam controls to the actual demands.

2010	UPM KauVo, Finland Optimization of the steam-levelling system. Site supervision.
2010	Myllykoski, MD Albbruck, Germany Optimization of the steam-levelling system. Site supervision.
2009	UMEÅ Energi, Dåva 2, Sweden Tuning of the district heating system. Tuning of the biofuel boiler controllers. Operator training.
2009	UPM Caledonia, Scotland Optimization of the steam-leveling system. Site supervision.
2009	UPM KauVo, Finland FAT-test assistance.
2008/9	UPM Pori, Finland Optimization of boiler plant controls. Site supervision.
2008	Domtar Marlboro, South Carolina, USA Optimization of the steam-leveling system. Site supervision.
2008/9	Korea District Heating Engineering Company (KDHEC), Soul Working as Senior Assistant for many CHP plants.
2008	UPM KauVo, Finland Design of CHP-Plant water-steam control system.
2007	SCA Obbola, Sweden Optimization of the controllers of a new recovery boiler. Optimization of the CHP-Plant steam-leveling system. Site supervision.
2007	UPM Shotton, UK Shotton Phoenix Project: Optimization of CHP-Plant water-steam system, site supervision & customer training.
2007	UPM Chapelle Darblay CHP-Plant, France Optimization of water-steam cycle, site supervision & customer training.
2006	Founding of the Company Oehlandt Energy Oy.

Electrowatt-Ekono (Pöyry Energy Oy) Experience 1997-2006

Major project experience:

2005- 2006	M-real Alizay, France Optimisation and testing of the CHP-Plant water-steam cycle.
2005- 2006	UPM Chapelle Darblay, France Chapelle CHABIO Project: Design of steam-levelling system.
2005- 2006	UPM Shotton, UK Shotton Phoenix Project: Design and optimization of CHP-Plant steam-levelling system.
2005	UPM Changshu, China Optimization of CHP-Plant steam-levelling system, site supervision.
2005	Veracel, Eunapolis, Brazil Optimization of CHP-Plant steam-levelling system, site supervision.
2004	Zellstoff Stendal, Germany Operator training, optimization and testing of the CHP-Plant water-steam-levelling system.
2003	Kuopion Energia, Haapaniemi 1, Finland Renovation of the automation system for boiler plant.
2003	Sunila, Finland Optimization of CHP-Plant water-steam system.
2003	Stora Enso Langerbrugge, CHP-Plant Belgium Design and optimisation of water-steam system, site supervision.
2002	SCA Obbola, Sweden Optimization of CHP-Plant water-steam system, site supervision.
2001- 2002	Frantschach Swiecie, Poland Design and optimisation of CHP-Plant water-steam system, site supervision.
2001	Fingrid, Finland Analysing and testing the function of Gas turbines in Vanaja, Kilpilahti, Naantali and Tahkoluoto.
2001	Otor, France. Acceptance tests for the steam–levelling system.
2001	Stora Enso Port Hawkesbury Canada

Analysing the steam-net dynamics.

2001	Chorzow 110 MWe/220MWe CHP plant Poland Design of district heating control system.
2001	AssiDomän Karlsborg, Sweden Analysing the steam-net dynamics.
2000	Södrä Värö, Sweden Analysing the steam-net dynamics.
2000	UPM-Kymmene, biomass CHP-Plant Jämsänkoski Design of water-steam cycle control systems.
2000	Frantschach Swiecie, Poland Analysing the CHP-Plant steam-net dynamics.
1998- 2000	Zellstoff- und Papierfabrik Rosenthal GmbH, Blankenstein, Germany; Design and optimization of CHP-Plant steam-levelling system, site supervision.
1998	Metsä-Serla Oy, Kirkniemi, Finland Optimization of CHP-Plant steam-levelling system, site supervision.
1997	Metsä-Serla Oy, Kirkniemi, Finland Renovation of the automation system for a fluidized bed boiler plant.
1997	National Power Supply Co. Ltd, Tha Toom, Thailand Two coal-fired power plant units, Circulating fluidized bed boiler; Design of steam-levelling system.

Previous Experience

1986-97 Siemens Oy, Espoo, Finland; Power Plant Automation Department
1988-91 Siemens AG, Karlsruhe, Power Plant Automation Department
1994-96 Siemens AG, Erlangen, Waste Incineration Plants Department

Major project experience:

1996-97	Helsinki Energy Board, Vuosaari B, Finland Gas fired combined power and heat plant; automation system specialist, training and start-up assistance.
1994-96	Sava GmbH, Brunsbüttel, Germany Waste incineration plant; engineering of automation system and site supervision.
1994	Imatran Voima Oy, Inkoo, Finland Coal fired power and heat plant, renovation of NO_x combustion; Automation project manager.

1991-93	Imatran Voima Oy, Meripori, Finland Coal fired condensing power and heat plant; engineering of automation system.
1990-91	Stanwell Energy Board, Australia Coal fired power plant; automation engineer and design of safety interlocks.
1990	Cleanaway, Chester, England Waste incineration plant; engineering of continuous controls and sequence control logics, site supervision.
1989-90	ENDESA, National Electricity Supply Co Coal fired condensing power plant; engineering of automation system and design of continuous controls.
1989	Energy Board, Lyon, France Coal fired power plant, engineering of automation system and design of continuous controls.
1988-89	Stellinger Moor, Hamburg, Germany Waste incineration plant; engineering of continuous and sequence control logics, site supervision.
1988	Metsä-Serla Oy, Mänttä Finland; Fluidized bed boiler plant; engineering of continuous controls and sequence control logics, start-up assistance.
1988	Rovaniemi Energy Board, Rovaniemi, Finland Peat fired district heating plant; Automation engineer, design of continuous controls and sequence control logics and start-up assistance.
1987	Vantaa Electricity Supply Co, Koivukylä, Finland Gas fired district heating plant; Automation engineer, design of continuous controls and sequence control logics and start-up assistance.
1987	Rautaruukki Oy, Raahe, Finland Hot band rolling mill; engineering and design of instrumentation and automation system.
1986	Helsinki Energy Board, Salmisaari, Finland District heating boiler, Automation engineer and design of sequence control logics.
1986-88	Swiecie, Poland Recovery boiler plant, engineering, and design of automation system.
1986	Imatran Voima Oy, Joensuu, Finland Coal fired power and heat plant, engineering, and design of automation system.

Professional Affiliations

Membership of Finnish Society of Automation (SAS).