

2022– Continue	<b>Rejlers Sweden</b>	Project Manager's work of the squad group under Northvolt Group Construction to start the early works and manage demolition, retrofitting and re-routing of utilities on site at Northvolt Kvarnsveden
2022	<b>Wärtsilä Brasil</b>	Electrical Supervisor services for 37MW TEVISA extension project Viktória, Brasil
2022	<b>Valmet Technologies Kemi, Finland</b>	Supervisor services for Gasification Plant installation in Kemi pulp mill construction project
2022 – Continue	<b>AFRY Oy Kulloo, Finland</b>	Commissioning Manager services for Kilpilahti Power Plant Project
2022 - Continue	<b>AFRY Oy, Tampere, Finland</b>	Commissioning Manager services for Naistenlahti Power Plant Project
2021 – Continue	<b>Andritz Oy China</b>	Mechanical Advisor services power plant construction project China
2021 – 2022	<b>Valmet Technologies Kemi, Finland</b>	CSA Supervisor for recovery boiler steel structure installation in Kemi pulp mill construction project
2021 – 2022	<b>AFRY Oy Vantaa, Finland</b>	Erection Manager, Vantaan Energia waste to Energy plant mechanical erection.
2021	<b>AFRY Oy Vantaa, Finland</b>	Mechanical Erection Advisor for boiler and fuel handling, Vantaan Energia waste to Energy plant mechanical erection.
2021	<b>Andritz Oy, Chile</b>	Mechanical Erection Advisor for Arauco Mapa Evaporation Project
2020 – 2021	<b>Andritz Oy, Rwanda</b>	Mechanical Erection Advisor for 2*40Mwe Peat Power Plant Project
2021	<b>Valmet Technologies China</b>	Mechanical Erection Advisor for Recovery Boiler Sun Paper, Beihai City
2019 - 2020	<b>Valmet Technologies Oy Indonesia</b>	mechanical supervisor for welding, mechanical installation and piping in Indonesia
2019	<b>AF Consults Oy Indonesia</b>	Contract Engineer for 2*1000 MW coal fired Power Plant project.
2018-2019	<b>Valmet Technologies Oy Japan</b>	Chief Erection advisor for boiler construction in Japan Ofunato
2019	<b>Valmet Technologies Oy Russia</b>	Mechanical supervisor for boiler retrofit in Bratsk, Russia
2018 – 2019	<b>Sumitomo SHI FW Energy Oy Finland / UK</b>	Preparation of commissioning and start up documentation for waste to energy plant
2018 – 2019	<b>Valmet Technologies Oy Japan</b>	Erection Supervisor for boiler construction in Ofunato

2018 – 2019	<b>Valmet Technologies Oy Portugal</b>	Chief Erection Supervisor for boiler construction in Leroisa, Fiquera Da Foz
2018 – 2019	<b>Valmet Technologies Oy Portugal</b>	Site Engineer boiler construction in Leroisa, Fiquera Da Foz
2018 – Continue	<b>Sarens Ltd. Finland</b>	Manager services for TCO Kazakhstan refinery component logistic project in Hamina
05 -10 2018	<b>Fortum Oyj, Loviisa Finland</b>	Site and QC Manager for Emergency Water Supply pump motor renewal. Site Management and time scheduling of renewal of motors for Emergency Water Pumps
2018 – 2019	<b>Valmet Technologies Oy Japan</b>	Chief Erection Supervisor for boiler construction in Ofunato
01-12.2018	<b>HQ-Power-YUMN Rwanda</b>	Project Director services for plant owner. 2*40 MW peat power plants in Gisagara district
2018 - 2019	<b>Valmet Technologies Oy Russia</b>	Quality/Mechanical Advisor for boiler construction in Syktyvar
2017 – 2018	<b>Valmet Technologies Oy China</b>	Quality control and expediting for 4 boiler steel structure
2017	<b>Sweco Industry Oy China, India</b>	EPC-Contractor's Sub-contractor audits and workshop quality inspections for HQ Power Rwanda 2*40 MW peat fired Power Plant project
2017 – 2018	<b>Valmet Technologies Oy Russia</b>	Site Manager services for new power boiler construction in Segezha
2016-2018	<b>Sarens / MWaves Ltd Finland</b>	Site observation services for port upgrade construction project in Hamina, Finland
2016-2017	<b>ÅF Consults Oy Indonesia</b>	PT Prima Layanan Nasional Enjiniring Mechanical Design Review services and Quality Control services at the site
2016-2018	<b>Wärtsilä Oyj Finland</b>	Design review of documentation for Emergency Diesel Generators, mechanical component construction plan review and preparation according to technical specifications and validation if they fulfil the Finnish regulatory requirements (STUK, YVL guides).
2016- Continue	<b>ÅF Consults Oy Philippines</b>	Sarangani, Southern Mindanao Phase 2, Philippines Owner Engineer Site Manager services
2016-2017	<b>DEKRA Oy Finland</b>	Quality Control services for Olkiluoto 3 NPP project commissioning
2016-2017	<b>Valmet Technologies Oy Finland and Russia</b>	Document management and translations for power boiler project in North Russia

2016-Continue	<b>Teollisuuden Voima Oy Finland</b>	System Commissioning Engineer for Olkiluoto 3 NPP project
2016-2018	<b>Valmet Technologies Oy Denmark, Finland</b>	Project engineer for power boiler plant steel structure in Denmark and Finland.
2016-2017	<b>Valmet Technologies Oy Czech Republic</b>	Controller of workshop manufacturing of boiler house frame in Vitkovice, Ostrava, Czech. The scope included 2500 tons steel structures to site in Naantali, Finland.
2014-2015	<b>Fennovoima Oy Finland</b>	Consultant services for Hanhikivi 1 Nuclear Power plant project <ul style="list-style-type: none"> <li>• Nuclear Engineering</li> <li>• Design review of documentation for Reactor area.</li> <li>• Construction license application for Hanhikivi-1. Main responsibilities within component documentation requirements.</li> <li>• Preparing documentation for construction license application. Coordinating and scheduling of document preparation for PSAR (Probabilistic Safety Assessment Report) and communication between supplier, owner and authorities.</li> </ul>
2014-2016	<b>AF-Consults Oy Indonesia</b>	Tajun Jati B 2 x 660 MW Power Plant, Jepara, Indonesia. Commissioning, operation and maintenance management
2014-2015	<b>Valmet Technologies Oy Sweden</b>	Södra Pulp mill extension at Varberg, Sweden. Workshop control in Lithuania and structural supervision at site.
2014-Continue	<b>PT Bekasi Power Indonesia</b>	Plant Management and energy technologies and engineering services for Jababeka Project Jakarta, Indonesia <ul style="list-style-type: none"> <li>• Conceptual design</li> <li>• Pre-engineering services</li> <li>• Design implementation services (like process. lay-out, civil, piping, electrification, automation, HVAC)</li> <li>• Efficiency improvements</li> <li>• QA/QC reviews</li> <li>• EPCM services</li> <li>• Different inspections</li> <li>• Troubleshooting</li> <li>• Training</li> </ul>
2014	<b>Valmet Energy Oy Hungary/Romania</b>	Dunauham Power Plant , Valmet Energy Oy project, Hungary. <ul style="list-style-type: none"> <li>• Controll of boiler house frame workshop manufacturing in Energo Brasov, Romania. 1300 tons steel structures sent to site in Dnaujvaros, Hungary.</li> </ul>
2014-2016	<b>Agon Pacific CO. Ltd Philippines</b>	Sarangani, Southern Mindanao, Philippines <ul style="list-style-type: none"> <li>• Construction and commissioning management services in Maasim, Sarangani Energy Co coal fired power plant project</li> </ul>
2013-2015	<b>Fortum Oyj, Loviisa</b>	Technical studies of feed water-, main condenser and cooling water systems aiming to retrofit the pumping systems
2015	<b>Andriz Oy Portugal</b>	Portugal Cacia Power Plant Commissioning of deodorization plant.
2014-2015	<b>Valmet Power Oy Baltic countries</b>	Supervision of Manufacturing in Baltic countries. Major part in Lithuania but also supplier sub-contractors in Latvia. Scope includes Progress follow-up, Progress meetings, Quality monitoring, Design coordination (facades), Troubleshooting, Reporting, Claiming, Scheduling etc.

2013-2014	<b>PT Cikarang Listrindo Indonesia</b>	<p>Lippo Cikarang, Bekasi, Indonesia</p> <p>Senior consultant services in the preparation of basic engineering design, capacity calculations, process flow diagrams, equipment layout, Tender documents preparation, evaluation of tenders and assist the management for the ordering process for</p> <ul style="list-style-type: none"> <li>• 800 t/h barge unloaders, 800 t/h conveyors system, coal vibro screens, crushers, 800 t/h two stacker reclaimers etc.</li> <li>• 450t/h capacity limestone handling system comprising of conveyors, vibrating screens, crushers, drying system, storage and transport of treated limestone to the limestone silos at Boiler house.</li> <li>• Atmospheric tanks such as fuel oil storage tank, clarified water buffer tanks, clarified water tank, service water tank, fire water tanks and makeup water tank.</li> <li>• Water treatment plant consisting of river intake facilities, clarifiers, sludge disposal system, clarified water pre-treatment plant, multi-media filters, activated carbon filters, Demin plant.</li> </ul>
2013	<b>Agon Pacific Indonesia</b>	<p>POSCO Engineering EPC project In Merak West Jawa, Indonesia</p> <ul style="list-style-type: none"> <li>• Commissioning of 2x60 MW Coal fired circulating fluidised bed combustion boilers, turbines, water, waste water treatment plant and the auxiliaries. Preparation of procedures for the commissioning activities such as chemical cleaning, steam blow out etc. preparation of spares required for two years operation, and strategic spares requirement for the power plant.</li> </ul>
2011-2012	<b>Andritz Oy China</b>	<p>Quality and expedition inspections in several factories in China e.g:</p> <ul style="list-style-type: none"> <li>• pressure part inspection of black liquid boiler in Sichuan CRUN Co. Ltd. and Western Power Industrial Ltd.</li> <li>• hydro testing of the boiler drum in Sichuan CRUN Co. Ltd.</li> <li>• evaporator and condensate tank inspection in Jiangdu Junye Process Equipment Co. Ltd.</li> <li>• pulp drying machine inspection in Andritz Technologies Ltd and Seaflower (Shanghai) Marine Co., Ltd.</li> <li>• chemical plant equipment inspections in Zhuo Qun Nickel Titanium Co., LTD.</li> <li>• flowmeter inspection in KROHNE measurement Technology (Shanghai) Co., Ltd.</li> </ul>
2009-2010	<b>Kuopion Energia Oy HPN3 CHP Plant Finland</b>	<p>The Haapaniemi 3 (HPN3) Power Plant is a biomass fired combined heat and power plant producing 46 MW of electricity and 85 MW of district heat.</p> <p>Owner's engineering services supplied by Tapro included the following tasks:</p> <ul style="list-style-type: none"> <li>• evaluation of design of the process systems</li> <li>• evaluation of equipment technical specifications</li> <li>• preparing purchasing proposals for mechanical equipment</li> <li>• making quality and delivery control of mechanical components</li> <li>• 3D implementation design</li> </ul>
2007-2008	<b>Siemens AG Energy Sector Erlangen</b>	<p>The 1600 MW<sub>e</sub> Olkiluoto 3 Nuclear Power Plant, which is under construction in Finland, includes the first Generation III+ reactor to be built in the world. The advisory services to Siemens Power Generation Division included matters concerning design and quality assurance of high, medium and low-pressure piping and associated equipment.</p>
2007-2008	<b>The City of Tampere Electricity Works Finland</b>	<p>2 x 60 MW<sub>e</sub> peat, wood, fuel oil and natural gas fired Naistenlahti combined heat and power plant. The services included basic and detailed design as well as procurement of fuel handling equipment for increasing wood utilization at the power plant.</p>

2008	<b>Stora-Enso Ostro-leka Poland</b>	36 MW <sub>e</sub> biofuel fired power plant. Preliminary plant design of the power plant.
2008	<b>UPM Kymmene Caledonia Paper, UK</b>	26 MWe biofuel fired Combined Heat and Power plant. Implementation layout design.
2007	<b>Foster Wheeler Energy Sweden</b>	Process and equipment design as well as system descriptions for the 240 MW <sub>t</sub> circulating fluidized-bed (CFB) boiler island to be located at the Igelsta combined heat and power plant in Södertälje, Sweden.
2002-2004	<b>Foster Wheeler Energy Ireland</b>	150 MW <sub>e</sub> peat fired extraction condensing power plant owned by West Offaly Power in Shannonbridge, Ireland. Plant implementation engineering included: Coordination of architectural, HVAC, structural and piping design and of PDMS modeling.
2002-2003	<b>Foster Wheeler Energy Ireland</b>	100 MW <sub>e</sub> peat-fired extraction condensing power plant owned by Lough Ree Power in Lanesborough, Ireland. Plant implementation engineering consisting of: Coordination of architectural, HVAC, structural and piping design and coordination of PDMS modeling.
2001-2005	<b>Foster Wheeler Energy/ Eesti Energia Estonia</b>	<p>The Eesti Power Plant is the world's largest oil shale fired thermal power station consisting of eight power generating blocks 215 MW<sub>e</sub> each. Two of the blocks, Eesti and Balti, were renovated and each of the blocks were equipped with two completely new fluidized bed boilers including Balance of Plant equipment.</p> <p>The work included preparation of power plant unit and boiler operation descriptions as well as system descriptions.</p>
1999 -2000	<b>Wacker Chemie, Burghausen, Germany 120 MW CHP Plant</b>	Gas fired 120 MWe combined heat and power (CHP) plant. The services included design, purchasing, installation and commissioning of all Balance of Plant (BoP) systems (gas supply, feed water, condensate, cooling water, steam accumulators, steam networks, make up water and air supply). (T)