



LIST OF SELECTED REFERENCES

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REPAIRS / MODERNIZATIONS

Client	Year	Scope of delivery
Voimavasu Oy Salo - Finland	2003	Repairs of Power Boiler ESP internals + modernization of collecting rapping system
Stora Enso Oyj Kemi - Finland	2003	Replacement of Rec. Boiler ESP #1 inlet screen + modernization of scraper conveyor
RAPP, Kerinci Indonesia	2004	Modernization of Lime Kiln ESP internals
SSYMB, Rizhao China	2004	Complete modernization of 2 pcs Rec. Boiler ESP scraper bottom conveyors
Voimavasu Oy Kantvik - Finland	2004	Modernization of rapping systems for Power Boiler ESP
Rautaruukki Oyj Raahe - Finland	2004	Modernization of all rapping systems for Blast Furnace ESP



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Client	Year	Scope of Delivery
Rovaniemen Energia Oy Rovaniemi - Finland	2004	Modernization of Power Boiler ESP rapping gear-drive units
Altia Oyj Koskenkorva - Finland	2004	Repairs for Power Boiler ESP internals
Stora Enso Oyj Kemi - Finland	2004	Replacement of Rec. Boiler ESP #1 inlet screen + modernization of scraper conveyor
Botnia Oyj Joutseno - Finland	2004	Modernization of discharge hanging systems for 3 pcs Rec. Boiler ESPs
Lahti Energia Oy Lahti - Finland	2004	Repairs for Power Boiler ESP inlet screen and rapping systems



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Client	Year	Scope of Delivery
Botnia Oyj Joutseno - Finland	2005	Repairs of 3pcs Rec. Boiler ESP internal parts
Botnia Oyj Joutseno - Finland	2005	Repairs of Lime Kiln ESP internal parts
Savon Lämpö Voima Oy Pieksämäki - Finland	2005	Replacement of rapping systems and collecting plates for Power Boiler ESP
Stora Enso Oyj Oulu - Finland	2005	Modernization of Lime Kiln ESP T/R controllers
Stora Enso Oyj Oulu - Finland	2005	Modernization of Lime Kiln ESP discharge rapping systems



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Client	Year	Scope of Delivery
Fortum Lämpö Oy Naantali - Finland	2005	Replacement of discharge electrodes to 2 fields + modernization of all rapping systems
ABB Service Oy Harjavalta - Finland	2005	Modernization of all rapping systems for Cu- smelter ESP
ABB Service Oy Harjavalta - Finland	2005	Modernization of all rapping systems for Cu- converter ESP
ABB Service Oy Harjavalta - Finland	2005	Modernization of all rapping systems for Ni- Dryer ESP
Fortum Lämpö Oy Kauttua - Finland	2005	Partial replacement of internal parts for Power Boiler ESP
Lahti Energia Oy Lahti - Finland	2005	Repairs & replacements of Power Boiler ESPs



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Client	Year	Scope of Delivery
Fortum Oy Meri-Pori - Finland	2006	Repairs for Power Boiler ESP
Fortum Oy Uimaharju - Finland	2006	Repairs and modernizations for Power Boiler ESP
Botnia Oyj Joutseno - Finland	2006	ESP repairs for 3 pcs Rec. Boiler ESPs
UPM Kymmene Oyj Kaipola - Finland	2006	Modernization of Power Boiler ESP inlet screen
UPM Kymmene Oyj Jämsänkoski - Finland	2006	Installation of safety platforms inside Power Boiler ESP
E.On Oy Espoo - Finland	2006	Modernization of ESP internals for Power Boiler ESP



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Client	Year	Scope of Delivery
Stora Enso Oyj Kemi – Finland	2006	Modernization of discharge rapping systems for Lime Kiln ESP
Oulun Energia Oulu - Finland	2006	Modernization of Unit 2 ESP gas distribution screens
Toba Pulp Lestari Indonesia	2006	Complete replacement of internals for 2 fields + replacement of 2 pcs new T/R controllers
Helsingin Energia Helsinki - Finland	2006	Modernization of 4 pcs T/R control units at Hana-saari B Power Plant
Andritz Oy Huaihua, China	2007	Delivery of Scraper Conveying system for 3 pcs of Recovery Boiler ESPs
Stora Enso Oyj Kemi – Finland	2007	Replacement of old T/R unit to HF rectifier of Recovery Boiler ESP



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Client	Year	Scope of Delivery
Riau Prima Energi Indonesia	2007	Replacement of internal parts for Recovery Boiler #1 ESP
KaVo Oy Kajaani - Finland	2007	Complete retrofit of Power Boiler ESP internals
Helsingin Energia Helsinki - Finland	2007	Modernization of 4 pcs T/R control units at Hana- saari B Power Plant
Fortum Heat Oy Joensuu - Finland	2007	Replacement of shock bars to 4 field ESP
Lahti Energia Oy Lahti - Finland	2007	Replacement of discharge electrodes to an 2x4 field Power Boiler ESP
Fortum Oy Kauttua - Finland	2008	Retrofit of internals for Power Boiler ESP



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REPAIRS / MODERNIZATIONS

Client	Year	Scope of Delivery
Fortum Oy Jyväskylä – Finland	2008	Retrofit of internals for Power Boiler ESP
Fortum Oy Kauttua – Finland	2009	Retrofit of internals for Power Boiler ESP
Vaskiluodon Voima Oy Seinäjoki – Finland	2009	Retrofit of internals (field A&B) for Power Boiler ESP
Sucros Oy Säkylä – Finland	2009	Replacement of ESP discharge electrodes
Savon Voima Oy Pieksämäki - Finland	2009	Modernization of 2 pcs T/R control units at Power Boiler ESP
Savon Voima Oy Iisalmi - Finland	2009	Modernization of 2 pcs T/R control units at Power Boiler ESP



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Client	Year	Scope of Delivery
Skellefteå Kraft Ab Malå – Sweden	2009	Modernization of biofuel boiler ESP internals
Vaskiluodon Voima Oy Seinäjoki – Finland	2010	Retrofit of internals (field C&D) for Power Boiler ESP
Botnia Oy Joutseno	2010	Recovery boiler ESP repairs (3pcs)
Rautaruukki Oyj Raahe	2010	Retrofit of internals (field C&D) for ESP
Savon Lämpö Oy Iisalmi	2010	Retrofit of internals for Power Boiler ESP
Holmen Paper Hallstavik, Sweden	2010	Retrofit of internals (field A) for Power Boiler ESP



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Client	Year	Scope of Delivery
LPPP – Jambi Indonesia	2010	Replacement of collecting plates for a Recovery Boiler ESP
UPM Kaukas Lappeenranta	2010	Replacement of Recovery Boiler ESP rapping systems
PVO Oy Kristiinankaupunki	2010	Replacement of internal parts for 2 Power Boiler ESPs
PVO Oy Tahkoluoto	2010	Replacement of internal parts for Power Boiler ESP
Alholmens Kraft Ab Pietarsaari	2011	Replacement of internal parts for Biofuel Boiler ESP
Fibre Excellence Tarascon, France	2011	Replacement of internal parts for Recovery Boiler ESP



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Client	Year	Scope of Delivery
Metsä-Botnia Oy Kemi	2011	Replacement of all internal parts for Lime Kiln ESP
Helsingin Energia Salmisaari	2011	Upgrading of 8 pcs traditional T/R –units with High-Frequency rectifiers
UPM Kymmene Oyj Jämsänkoski	2011	Replacement of internal parts for Biofuel boiler ESP
Vaskiluodon Voima Oy Vaasa	2011	Replacement of emitting electrodes for Power Boiler ESP
Lahti Energia Oy Lahti	2012	General repairs of Coal fired boiler ESPs
Oulun Energia Oulu	2012	Corrosion repairs of Biofuel Boiler ESP



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Client	Year	Scope of Delivery
Alholmens Kraft Ab Pietarsaari	2012	Modernization of ESP rapping systems & general repairs
Fortum Oy Meri-Pori	2012	Modernization of ESP rapping systems & general repairs
Botnia Oy Joutseno	2012	General repairs of Recovery Boiler ESPs and Lime Kiln ESP
Vantaan Energia Oy Vantaa	2012	Modernization of ESP rapping systems
Pori Energia Oy	2013	General repairs of Power Boiler ESPs
Lahti Energia	2013	General repairs of Coal fired boiler ESPs
Empower Oy Anjalankoski	2013	Replacement/upgrade of all ESP rapping systems



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Client	Year	Scope of Delivery
Savon Voima Oyj Pieksämäki	2013	Modernization of all Power Boiler ESP internals
Salon Energiatuot. Oy Salo	2013	Replacement of ESP collecting plates
Kainuun Voima Oy Kajaani	2013	General Power Boiler ESP repairs
Metsä Oy Kemi	2013	Repairs of Recovery Boiler ESPs
Metsä Oy Joutseno	2013	Repairs of Recovery Boiler and Lime Kiln ESPs
Stora Enso Oyj Sunila	2013	Repairs of Recovery Boiler ESPs & Retrofit of 3pcs High Frequency T/R units to RB ESP 1 st fields



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Client	Year	Scope of Delivery
Metsä Oyj Kemi	2014	Replacing of Recovery Boiler ESP electrodes
Efora Oy Oulu	2014	Overhauling Recovery Boiler ESP conveyors
Elenia Oy Oulainen	2015	Modernizing of all Power Boiler ESP internals
Laanilan Voima Oy Oulu	2015	Increasing a 3rd electrical field to an old ESP