

- 2015-2016 **Valmet technologies / Raahen voima/ SSAB (Raahen Finland)**
Supervisor for Blast furnace- / coke gas fired boiler E&I installation, Commission and start up works
- 2014-2015 **Valmet technologies / Vimmerby Energi&Miljö (Vimmerby Sweden)**
Supervisor for CHP biomass power plant instrumentation installation, Commission and start up works
- 2014 **Valmet Power Oy / Eneco bio golden raand Delfzijl Netherlands**
Maintenance shutdown.
Valmet Power Oy / Oji paper Nantong China
Commission and start up works of Recovery boiler.
Valmet Power Oy / Markinch Biomass CHP Project Glenrothes UK
Commission and start up works of CHP biomass power plant.
Valmet Power Oy / PGE Elektrowni Szczecin Poland
MCC modifications and automatic change over system testing.
- 2013 **Metso Power Oy / Eneco bio golden raand (Delfzijl Netherlands)**
Commission and start up works of CFB power plant.
Metso Power Oy / Fortum Jelgava (Jelgava Latvia)
Supervisor for BFB biomass boiler instrumentation installation, Commission and start up works
- 2012-2013 **MWPower /Valio Oy (Lapinlahti Finland)**
Installation supervisor and commissioning of biomass power plant.
- 2012 **MWPower / Affärsverken (Karlskrona Sweden)**
Commission and start up works of biomass CHP power plant.
MWPower / Graanul invest (Laukalne, Törva Estonia/Latvia)
Installation supervisor and commissioning of two biomass power plant.
- 2011 **Metso Power Oy / SAICA paper (Zaragoza Spain)**
Supervisor for CFB boiler instrumentation installation. Commission and start up work's
- 2010 **Metso Power Oy / Stora Enso (Ostroleka Poland)**
Supervisor for CFB boiler instrumentation and electrification installation. Commission and start up work's
- 2009 **Sweco Industry Oy / Keravan lämpövoima Oy**
Supervisor for CHP Power Plant instrumentation installation and Commission work's.
- 2008 **Metso Power Oy / AS Fortum Tartu**

- Supervisor for BFB boiler instrumentation and electrification installation.
Metso Power Oy. / REC08 Project
 Instrumentation and commissioning work's for recovery boiler.
- 2007-2008 **Metso Power Oy / e-on UK Steven Croft wood burning power plant (Lockerbie Scotland)**
 Commission and start up works of biomass power plant
- 2006-2007 **Foster Wheeler Energia Oy / SembCorp utilities UK**
 Supervisor for CFB boiler instrumentation installation and start-up work of Wilton 10 Biomass CHP Power Plant
- 2006 **Foster Wheeler service (Thailand) Limited / Thai cane paper**
 Technical advisor for CFB boiler instrumentation installation and start-up work of new Cogeneration power plant
- 2004-2006 **M-real Oyj / Botnia mill service Kaskinen BCTMP mill**
 Supervisor for instrumentation installation and start-up work of BCTMP mill
- 2003-2004 **Enprima Engineering Ltd / Kispest Cogeneration Power Plant Hungary**
 Instrumentation and start up work for Gas turbine power plant
- 2003 **Kvaerner Power Oy /Järvi-suomen voima Oy Savonlinna**
 Instrumentation and Electrification of CHP power plant.
- 2002-2003 **Foster Wheeler Energia Oy / Elcho CHP project Poland**
 Instrumentation and start up work's for EC Chorzow S.A power plant
- 2002 **Rintekno Oy / Rauma forest chemical Finland**
 Instrumentation of a tall oil fractionation plant
- 2001-2002 **M-real Oyj / Botnia mill service Joutseno BCTMP mill Finland**
 Instrumentation and start-up work's of BCTMP mill
- 2000 **Andriz Ahlsrom Oy Qingdao Haiwang China**
 Instrumentation and start-up work of board machine approaching systems
 And recycling line
- 2000 **ABB Industry pulp and paper / Valmet paper Lachendorf, Germany**
 Electrification for Drevsen papier PM5
- 2000 **Foster Wheeler Energia Oy Katowice, Poland**
 Instrumentation for EC Katowice S.A. power plant slurry handling systems
- 1999-2000 **Fortum Engineering Oyj / Kvaerner pulping Tychy, Poland**
 Instrumentation for the EC Tychy S.A. Blok ciepłowniczy BC-35
 Power Plant
- 1999 **Foster Wheeler Energia Oy Jaworzno, Poland**
 Instrumentation, calibration, testing and start up works for the
 Power Plant Jaworzno II
- 1998- **IVO Power engineering Chvaletice, Czech Republic**

Calibration, testing and start-up work for the Flue gas desulphuration Plant of the Cez a.s Elektrarna Power Plants Unit B

Oy Borealis Polymers Ltd, Sköldvik, Finland

Supervisor / Designer, start-up work of the instrumentation of The dry end of PE-2

Outokumpu Engineering Services Oy, Kovdor Russia.

Enriching Plant Modernisation Project
Supervision of the installation of the instrumentation,
Calibration, testing and start-up work and Supervision off the Electrification

1997-

IVO Power engineering Chvaletice, Czech Republic

Calibration, testing and start-up work for the Flue gas desulphurization Plant of the Cez a.s. Elektrarna Power Plants Unit A

Neste Oy Porvoo Refinery, Finland

Supervision for the instrumentation and automation of Change-over and conversion lifting-up of Fcc-unit

1988-1997

ABB Installaatiot Oy Paimio, Finland

Recognition, receiving and calibrations work for The instrumentation equipment, trial tests for start-up and Inspections for hand over

Stockholm Energi AB, Sweden
Power Station in Värtan

Badar City, Egypt
Water treatment plant

Thai Paper Ltd., Thailand
PB 12 Pyroflow power boiler

IVO Oy, Loviisa Nuclear Power Station Finland
Revisions for power station

Teollisuuden Voima Oy Olkiluoto Nuclear Power Stadion Finland
Revisions for Power Station

Tampella Anjalankoski Finland
Modernisation of Board Machine

Neste Oy Porvoo Finland
Extension of PS-Extruder

Outokumpu Oy Tornio Finland
Extension of HP 2

Outokumpu Oy Harjavalta Finland
Redevelopment of Smelter

ENOCELL Oy Uimaharju Finland
Extension and modernisation of Pulp Mill

Myllykoski Oy Myllykoski Finland
Modernisation of PM 6

Kotkan Höyryvoima Oy, Mussalo, Finland
Modernisation of Power Station of Mussalo 1 and 2

Outokumpu Oy, Harjavalta, Finland
New building and rebuilding of Smelting Plant in
Ni-reducing Plant

Metsä-Rauma Oy Rauma Finland
Erection of new Pulp Mill

Metsäserla Oy Kirkniemi Finland
Erection of PM 3

- 1988 Hackman-MKT- Erkomat Oy, Kotka, Finland
Electrician
Installation work for the electrification of Powder handling equipment's
- 1986-1988 Kotkan Sähköpaja Oy, Kotka, Finland
Electrician
Installation work for the automation in local industry and
Shipyards
- 1986 Neste Oy, Porvoo Refinery, Finland
Electrician
Maintenance and repair work for the instrumentation
- 1985 Aupal Oy, Kotka, Finland
Electrician
Installation work for the instrumentation