

Key persons

- M.Sc. (Eng.) Aarne Pehkonen
Boiler Design, Project Management, Power and Boiler Plants
- M.Sc. (Eng.) Markku Nummela
Electrical Systems and Automation, Power and Boiler Plants
- M.Sc. (Eng.) Sami Sivola
Project Development, Project Management, Power Plants
- B.Sc. (Civ) Hannu Hirvelä
Civil works, Buildings, Constructions, Site Management

Reference Projects during last years

- 2013-2014 EPCM (Engineering, Procurement, Construction and Management), Project Management during implementation for gas fired power plant 1*126 MWe. A-Power Systems/PT Cikarang Listrindo
- 2011-2017 EPCM (Engineering, Procurement, Construction and Management), Project and Site Management including process, layout, pipe and main dimensioning design, coal fired power plant 3 x135 MWe (CFB). AF-Consult/PT Cikarang Listrindo, Indonesia.
- 2011 Design of 3 MW grate fired Boiler for Planora Oy/Komforts for Taalintehdas, Finland.
- 2010 Basic Design for CCGT power plants of Al-Shabab 1000 MWe (Frame 9Es, 8 pcs) and Damietta 500 MWe (Frame 9Es, 4 pcs) in Egypt. Kharafi National/ÅF-Consult, Finland.
- 2008-2011 Engineering & Construction, Project Management including process, layout, pipe and main dimensioning design, combined cycle power plant CCGT 209E, 370 MWe. PT Cikarang Listrindo, Indonesia.
- 2009 Energy Survey in Aceh, Indonesia. Sustainable Forestry Management, UK.
- 2008-09 Basic Engineering for Sabiya CCGT Power Station of 2000 MWe in Kuwait. Project Manager including process, layout, pipe and main dimensioning design. Kharafi National/ÅF-Consult, Finland.

- 2008 Basic Engineering for CCGT Power Plant of 375 MWe in United Arab Emirates. Project Manager including process, layout, pipe and main dimensioning design. Kharafi National, Kuwait /ÅF-Consult, Finland
- 2008 Basic Engineering for OCGT Power Plant of 125 MWe for tender issue in Argentina. Project Manager including process, layout, pipe and main dimensioning design. Maire Engineering S.p.A, Italy/ÅF-Enprima, Finland
- 2007 Basic Engineering for high pressure steam boiler of 32 t/h, 62 barg, 460C. ElektroSandeberg AB /Sweden
- 2007 Basic Engineering for OCGT Power Plant of 500 MWe for tendering in Sarir, Libya. Engineering Manager. Kharafi National, Kuwait/Maire Engineering S.p.A, Italy/ÅF-Enprima, Finland.
- 2007 Basic Engineering for OCGT Power Plant of 750 MWe in Tobruk, Libya. Engineering Manager. Kharafi National, Kuwait/Maire Engineering S.p.A, Italy/ÅF-Enprima, Finland.
- 2007 Basic Engineering for OCGT Power Plant of 2500 MWe in Sabiya, Kuwait. Engineering Manager. Kharafi National, Kuwait/ÅF-Enprima, Finland.
- 2007 Retrofit of high pressure steam boilers 50 bara, 450°C of 100 t/h, 50 t/h and 40 t/h, Basic engineering for the modification for wood powder firing, CSM, Netherlands.
- 2007 Pelletizing plant of 500.000 t/a British Canada, Engineering Manager. Basic design.
- 2007 Åmotfors / TPS Termiska Processer AB, Sweden. Design of the municipal waste fired power plant and design of 25 MWth/4.5 MWe high pressure boiler for implementation.
- 2006 Oulu Energia/KPA Unicon, Finland. Oil fired boiler of 40 MW. Boiler design for implementation.
- 2006 UPM Kymmene/KPA Unicon, Finland. Natural gas fired boiler of 180 t/h, 16 barg, 204.5C. Design for the bid.

- 2006 Primet Oy, Finland. Waste fired grate boiler of 3.5 MW. Boiler design for implementation.
- 2006 Pelletizing plant of Sia Talloil, Latvia. Increase of pellets production capacity of the existing plant up to 70.000 t/a. Design and project management.
- 2006 Söderenergi AB, Sweden. Modification of the oil fired boiler of 150 MW to pellets firing. Pressure vessel design including supporting steel structures for implementation.
- 2005 -06 Ferrybridge C Power Station, UK. Switch of the coal fired boilers to wood powder combustion. Retrofit of 12 x 25 MW_{th} Bioswirl burners to two of four boilers (each 1350 MW_{th}). Fuel handling Facility for the wood pellets and wood chips.
- 2005 Assessment of utilization of waste energy sources of Rautaruukki factories in Raahe for pellet production. Rautaruukki and City of Raahe. Pelletising and energy expert.
- 2005 3 pcs of gas fired hot water boilers of 60 MW_{th}, totally 240 MW_{th}. KPA Unicon Oy/St. Petersburg Energy, Finland. Design for implementation.
- 2005 Pellet fired boiler of 25 MW_{th}. TPS Termiska Processer AB/Umeå Energi AB, Sweden. Design for implementation.
- 2004 5 pcs of oil fired hot water boilers of 47 MW_{th}, totally 235 MW_{th}. KPA Unicon Oy/Helsinki Energia, Finland. Design for implementation.
- 2004 Oil fired hot water boiler of 60 MW_{th}, Tampere Electricity Works, Finland. Design.
- 2003 Pelletizing plant 7 t/h of SIA Marama Latvia. For Talloil Stora Vika Biobrännle AB. Drying and fuel treatment of wet saw dust.
- 2003 Heat Recover Hot Water Boiler 15 MW_{th} for gas turbine plant in Kouvola Finland. Design.
- 2003 Oil fired hot water boiler of 40 MW_{th} for Jyväskylä Energy in Jyväskylä Finland. Design.

- 2003 Waste fired power plant 11MWth/1.5 MWe SLP AB Helsingborg/TPS Termiska Processer AB, Sweden. Pre-engineering and feasibility study for bidding.
- 2003 CHP Power Plant 68 MWth/18 MWe Country Electricity Company/Enprima Oy, Thailand. Engineering for bidding and procurement of main components.
- 2002 CHP Power Plant Rottneeros/TPS Termiska Processer AB
Pre-engineering for to dismantle small scale power plant of 4.7 MWe/17 MWth for coal firing in Hallsberg and to remove it to Rottneeros and modify it for bio fuel firing.
- 2001 CHP Power Plant Portugal/Talloil AB
Engineering for the small scale power plant 38 MWth/10.4MWe extraction condensing steam turbine by Babcock Borsig Power/Austrian Energy.
- 2001 Finspång/TPS Termiska Processer AB
Pre-engineering for the small scale power plant 8.85 MWt/0.9 MWe with saturated steam and Curtis steam turbine by Nadrowski
- 2001-2002 Kil Energi AB/TPS Termiska Processer AB
Engineering for implementation including layout, process and documents for procurement of district heating boiler plant, totally 8 + 8 MW_t
- 1999-2001 Fortum Engineering Oy, Laem Chabang CCGT Power Plant
Engineering, Procurement and Erection Manager of CCGT power plant of 234 MWth/ 110 MW_e and 50 tn/hr process steam
- 2000 Fortum Engineering Ltd/ Chai-Nat, Thailand. Rice husk fired power plant 22 MWth/4 MWe. Boiler assessment for renovation of combustion technology.
- 1999 Kuhmon Lämpö Oy
Engineering and documentation for district heating steam boiler, 12 MW_{th}
- 1998 Inergia Oy
Engineering and procurement control of the district heating power plant of one solid fuel fired boiler and two fuel oil fired boiler, totally 10 MW_{th}
- 1998 Borås Energi AB / TPS Termiska Processer, Sweden
Basic design of auxiliary steam CFB steam boiler (20 MW_{th}) including layout and technical specification for bidding.

- 1998-99 Fortum Engineering Oy,
Sormovskaya Power Plant, Extracting condensing power plant, Nitzniy
Novgorod, Federation of Russia, Tacis Project, Operational and environmental
improvements of the power plant 350 MW_e.
- 1998 Oulun Seudun Sähkö, (Electric Works of Oulu)
CHP (Back Pressure) Power Plant 5 MW_e/13 MW_{th} of Kempele. Feasibility
Study, Basic design and Invitation to Bids.
- 1998 Fiskeby Board AB, Sweden, Rebuilt of 20 MW_{th} steam boiler (24 bar(g),
235°C), pressure vessel and pipe line construction