

CURRICULUM VITAE

of

Tuomas Pyykkönen

November 10th, 2023



Personal information

Name: Tuomas Pyykkönen
Residence: Helsinki, Finland
Nationality: Finnish
Year of birth: 1974

Skills & competences summary

- Energy markets
- Physical portfolio mgmt and financial portfolio risk mgmt
- Hydro power optimization, pricing and bidding
- Mathematical modeling and stochastic optimization
- Agile (software) development methods
- Continuous improvement and result oriented way of working
- Experiences and key responsibilities in large complex development projects
- Experiences and good co-operation skills in international environment

Working experience

Fortum Power & Heat Oy – Corporate Customers and Markets, Espoo, Finland

Nov 2023 –

Senior Business Developer, Business and Process Development, Business Services and Transformation;

Responsible (product owner) for operative platform for mid-term horizon operative portfolio management of power production portfolio. Includes physical trading market places.

Fortum Power & Heat Oy – Generation Division, Espoo, Finland

Nov 2020 – Oct 2023

Business Developer, Physical Trading, Trading and Asset Optimization;

Responsible (product owner) for operative platform for mid-term horizon operative portfolio management of power production portfolio. Includes physical trading market places. **Designing asset optimization solution for new platform for short-term horizon operative portfolio management of power production portfolio.** Includes pricing/bidding for all (short-term and intra-day) physical trading market places, power balance management and dispatching. Responsibilities in optimization modeling methodologies, data management and visualization decision-support areas.

Jun 2019 – Oct 2020

Senior Portfolio Manager, Physical Trading, Trading and Asset Optimization;

Responsible for operative portfolio management of power production portfolio. Includes primarily physical

Nordic power production portfolio forecasts and physical portfolio pricing chain tactics for area Finland. Also support for the financial Nordic risk management (hedging primarily based on financial derivatives instruments) in co-operation with risk control and financial trading teams.

Responsible (product owner) for operative platform for mid-term horizon operative portfolio management of power production portfolio. Includes physical trading market places.

Designing asset optimization solution for new platform for short-term horizon operative portfolio management of power production portfolio. Includes pricing/bidding for all (short-term and intra-day) physical trading market places, power balance management and dispatching. Responsibilities in optimization modeling methodologies, data management and visualization decision-support areas.

May 2016 – May 2019

Product Owner, Operations and Development, Trading and Asset Optimization;

Responsible for design and implementation of new platform for mid-term horizon operative portfolio management of power production portfolio. Includes physical trading market places.

Oct 2014 – Apr 2016

Portfolio Manager, Physical Production, Mid-term & Short-term horizons, Production Optimization & Trading;

Responsible for operative portfolio management of power production portfolio. Includes primarily physical Nordic power production portfolio forecasts and physical portfolio pricing chain tactics for area Finland. Also support for the financial Nordic risk management (hedging primarily based on financial derivatives instruments) in co-operation with risk control and financial trading teams.

Designing future roadmap for overall next generation solution for physical power production portfolio management. Includes mid-term horizon optimization/forecasting/pricing, pricing/bidding to all (short-term and intra-day) physical trading market places, power balance management and dispatching solutions based on optimization and simulation models. Includes enhanced consideration of key uncertainties via stochastic optimization methodology. Includes multi-market pricing support for the overall pricing chain over all time horizons. Responsibilities in optimization modeling methodologies, data management and visualization decision-support areas.

Oct 2009 – Sep 2014

Portfolio Manager, Physical Production, Mid-term horizon, Production Optimization & Trading;

Responsible for operative mid-term portfolio management of Nordic power production portfolio. Includes primarily physical power production portfolio management. Also support for the financial risk management (hedging primarily based on financial derivatives instruments) in co-operation with risk control and financial trading teams.

Designing and implementing financial risk and portfolio management solutions based on cashflow-at-risk methodology. Includes both physical power production portfolio and financial hedging portfolio (power and other commodities). Responsible for key uncertainties modeling, scenario structure design and portfolio and risk analysis concepts.

Designing and implementing mid-term power production planning and pricing solutions based on optimisation model. Project manager and responsible for overall optimization & pricing methodology and optimization model specifications.

Fortum Power & Heat Oy - Portfolio Management and Trading, Espoo, Finland

Jul 2007 - Sep 2009	<i>Manager, Production Planning; Responsible for operative mid-term production planning of Nordic power production portfolio. Designing and implementing short-term system and area power spot price forecasting and bidding analysis solutions based on supply/demand fundamentals and market clearing model.</i> Responsible for overall methodology and modeling of market clearing mechanism.
Sep 2004 - Jun 2007	<i>Manager, Production Planning; Responsible for operative mid-term production planning of power production sub-portfolio (area Finland). Designing and implementing short-term power production planning and pricing/bidding solutions based on optimisation model.</i> Responsible for overall methodology for optimization and pricing.
Jul 2002 - Aug 2004	<i>Portfolio analyst; Operative responsibility of mid-term production planning of power production sub-portfolio (area Finland). Developing planning methods and models.</i>
Sep 1999 - Jun 2002	<i>Portfolio analyst; Operative responsibility of risk analysis of power production, sales (structured products) and proprietary trading portfolios. Responsible for design, implementation and operative use of risk measurement and analysis solutions for production assets, sales contracts and structured products.</i>
Mar 1999 - Aug 1999	<i>Master's Thesis worker; Thesis title: 'Modelling of the portfolio management in the deregulated electricity market'</i>
ABB Power Oy - Control Systems, Helsinki, Finland	
May 1997 - Feb 1999	<i>Optimisation applications designer; Designing energy procurement optimization solutions of energy management systems for several major paper industry corporations in Finland. Responsible for optimisation model specifications and implementations.</i>

Professional courses

<i>Certified Scrum Product Owner</i>	2 days (June 2016), topics: agile development methods by Scrum Alliance
<i>Course in Creativity</i>	1 day (May 2009), topics: de Bono's methodologies Lateral Thinking and Six Thinking Hats
<i>Leading Fortum Forward</i>	6 days (Nov 2007- Mar 2008), topics: building high performance and strong employee engagement
<i>Rhetoric – the art of Persuasion</i>	2 days (May 2007), topics: rhetoric & argumentation techniques, convincing vs. persuading
<i>Different people – Challenging interactions</i>	2 days (April 2007), topics: benefits & challenges of differences in people's preferences, motivation & communication, teamwork
<i>International Presentations</i>	2 days (Nov 2006), topics: formal & informal, prepared & spontaneous, communicate effectively, confident & qualified impression, attention & interest of audience

Fortum Manager

12 days (Jan - Aug 2005), topics: leadership & change, communication & interaction skills, project work, finance & accounting, labour legislation and managing safety

Languages

Finnish: native
English: fluent
Swedish: modest
German: modest

Computer programming

C++, Visual Basic, Matlab

Education

Sep 1993 - Sep 1999

Helsinki University of Technology, Espoo, Finland
Master's Degree (MSc.) with distinction in the faculty of Engineering Physics and Mathematics,
Major: *Systems and operations research (applied mathematics)*
Minor: *Nuclear and new energy technologies*

Hobbies

Golf, downhill skiing

Contact information

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