



Company Presentation

Chemitec Consulting Oy, Finland

Presenter Name and Date

AGENDA

- Chemitec Consulting Oy
- Offering & Service Lines
- Sales Network & References

CHEMITEC CONSULTING OY

- We are a Finland based, globally operating engineering and consulting company
- Our experts are specialized in the process and energy industries
- We have over 30 years of experience



OUR MISSION

“Sustainable Solutions with Quality”

We are a consulting and engineering company that offers **sustainable solutions to our customers, ensuring the highest quality in all our deliveries.**

We look for the best solution and available technologies for our customers, in order to optimize economical, process and environmental aspects of each project we are part of.



MANAGEMENT



"We utilize our expertise to find the best solutions for our customers, no matter the project size"

Tiina Piira, CEO

Leading Process Expert



"Our customer's feedback has always been excellent. We are looking to expand our base of satisfied customers to new geographical areas"

Luis Rudolphy, COO

Sales & Marketing Director

EXPERT TEAM

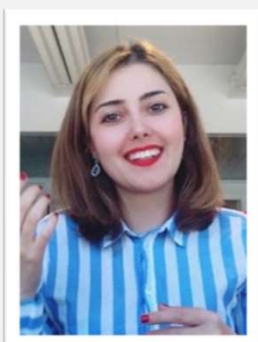
Process Team



Helena Laavi,
Process Specialist



Hilikka Pastinen-Kurula,
Process Engineer



Ava Parvasi
Process Engineer

Energy Team



Risto Seppälä,
Leading Energy Expert



Markku Ollakka,
Leading Energy Expert



Muhammad Nasrullah,
Energy Specialist

OFFERING & SERVICE LINES

PROCESS TECHNOLOGY SERVICES



- Feasibility studies
- Basic design/pre-engineering
- Energy and mass balance calculation
- Process simulation
- Equipment design
- Procurement of main and process equipment
- Water handling & treatment
- Electrical engineering
- Automation and Instrumentation
- Commissioning and start-up
- Cost estimation
- Project management

ENERGY TECHNOLOGY SERVICES



- Feasibility studies
- Development of investment projects
- Project management
- Heating and steam units
- Production of electricity and heat
- Purification of flue gases and heat recovery from flue gases
- Environmental permit applications
- Wastewater treatment processes
- Utilization of biofuels and waste in energy production
- Intensification, modernization and analysis of operation
- Solid recovered fuel (SRF) production plant design and economics

EXPERT SERVICES



- Permit applications
 - Environmental permits
 - EU Emissions Trading
 - Trial notifications
- Literature studies
- Continuous co-operation and long-term partnership
- Product and Process R&D services
 - Test Planning
 - Scale up

DIGITAL ACCELERATION SERVICES

All processes have pain points

Generally these pain points can be measured/quantified

But they need to be understood to create solutions

Solutions need to be applicable for the development of final solutions



Measured process
Information



Process Pains



Pains analysis and
understanding

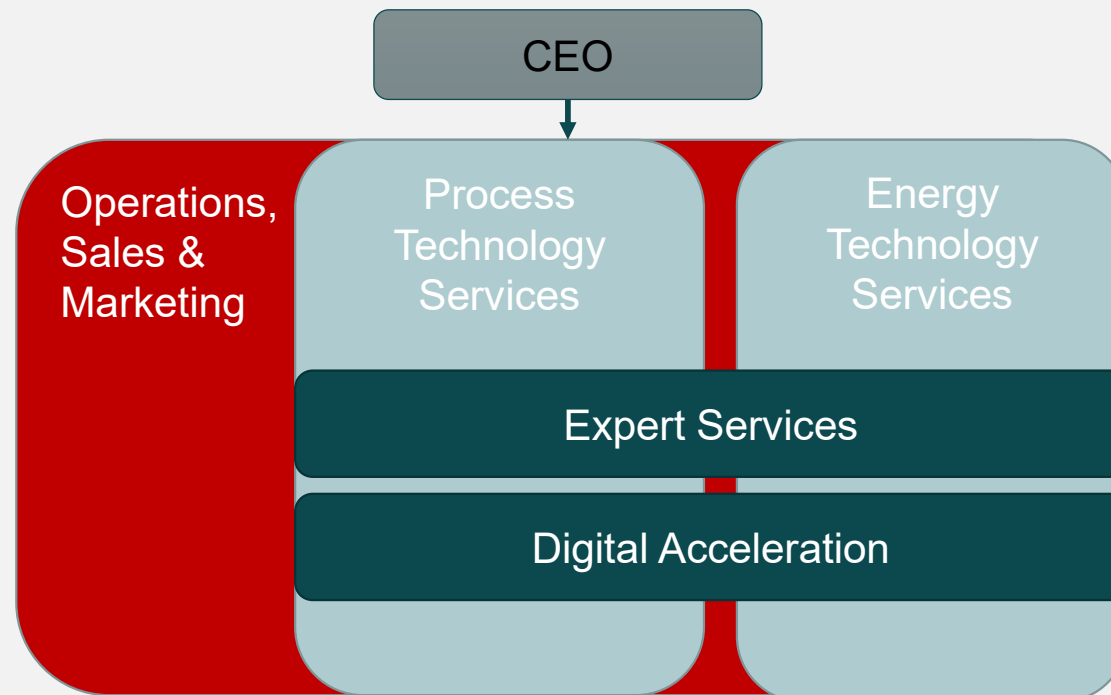


Ideas



Development of
functioning
solutions

ORGANIZATION



SALES NETWORK & REFERENCES

REPRESENTATIVES

UKRAINE



FRANCE



CHILE



PORTUGAL

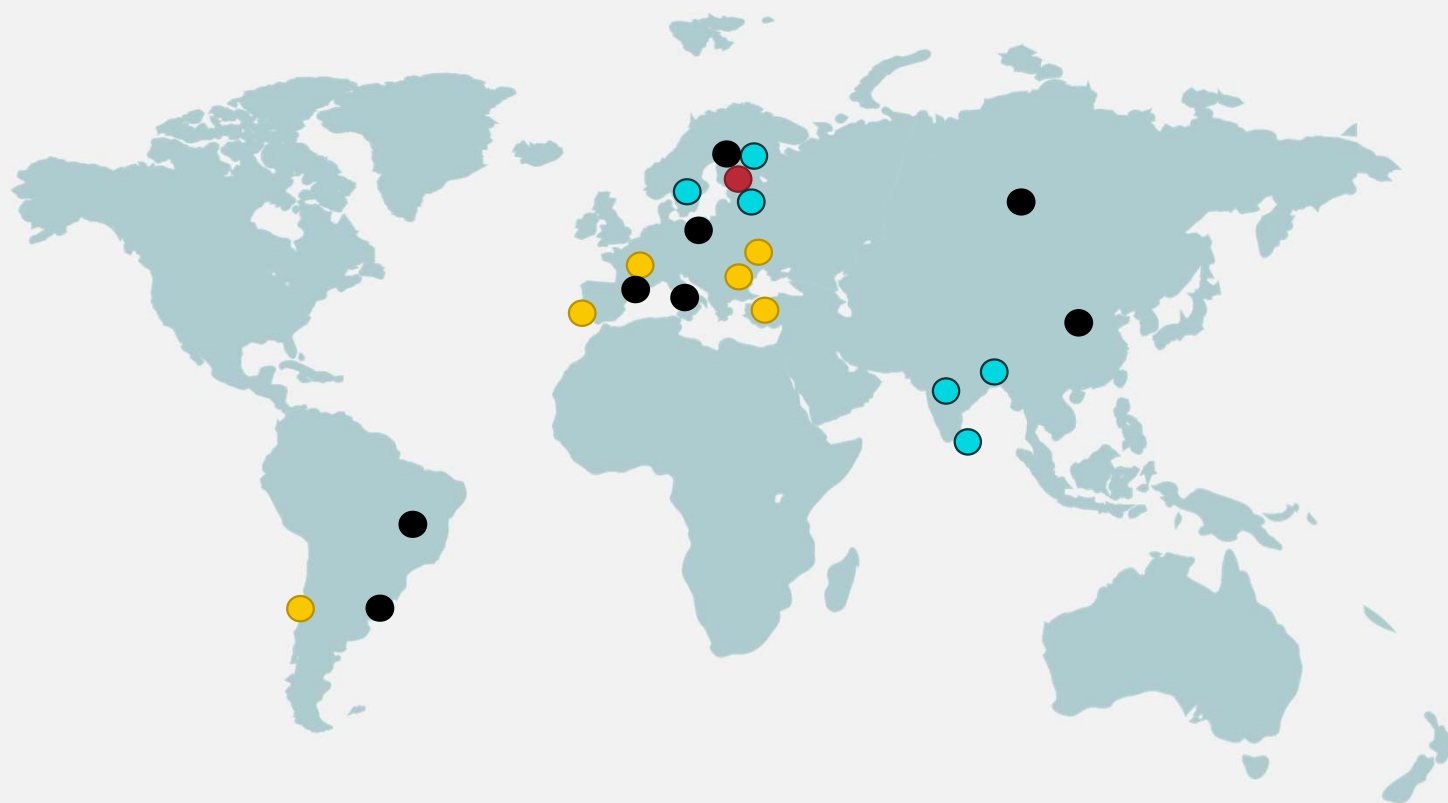


TURKEY



BULGARIA





- Chemitec Head office
- Representative
- Reference in Energy
- Reference in Chemicals

SELECTED REFERENCES IN CHEMICALS

Finland - Chlorate crystallisation plant (70 000 tn/a) - 2016 - 2017, Kemira Chemicals Oy, Joutseno

Brazil - Chlorate crystallisation plant (43 000 tn/a) - 2014 - 2016, Kemira S.A., Chemical Island, Ortigueira, Parana State

Finland - H₂SO₄ & HNO₃ distillation unit (2 tn/h) - 2012 – 2014, Oy Forcit Ab, Forcit Explosives, Hanko

China - Ethanol distillation unit (0,7 Mtn/a) - 2011, CP Kelco Biological Co Ltd, CMC Mill, Wulian

Poland - Monochloroacetic acid plant (42 000 tn/a) - 2007 – 2008, PCC Rokita SA, Chemical plant, Brzeg Dolny

Estonia - Burning system of ship loading exhaust gases - 2006, AS ETP Group, Loading & unloading of chemicals, Alexeela Terminal

Uruguay - Chlorate crystallisation plant (73 000 tn/a) - 2005 - 2007, Kemira S.A., Chemical Island, Fray Bentos

Russia - Conversion plant of depleted uranium hexafluoride - 1999 - 2001, Fortum Engineering, Angarsk electrolysis and chemical complex, Angarsk

Finland - Modification and extension of Isopropanol and methanol recovery unit (1,5 Mtn/a) - 1995 – 1997, Metsä-Serla Chemicals Oy, CMC Mill, Äänekoski

SELECTED REFERENCES IN ENERGY

Finland - Pellet-fired district heating plant (40 MW) - 2014 – 2016, Turku Energia Oy, Turku

Finland - Bio fuels and peat combustion steam boiler plant (20 MW) + Oil steam boiler (2 x 14 MW) - 2011 – 2013, VALIO Oy, Lapinlahti

Finland - Bio fuels and peat combustion CHP power plant (5 MWe/15 MWth) - 2007 – 2010, Keuruun Lämpövoima Oy, Keuruu

Finland - Combined district heating and cooling by heat pumps (15-20 MWth/10-15 MWc) - 2006 – 2009 Unit 1, Turku Energia Oy, Turku

Finland - Combined district heating and cooling by heat pumps (15-20 MWth/10-15 MWc) - 2011 – 2013 Unit 2, Turku Energia Oy, Turku

Sweden - Flue gas condensing and heat recovery unit (5 MW) - 2006 – 2007, Fortum Värme AB, Nynäshamn

Estonia - Bio fuel boilers (2x18 MW) + Flue gas condensing and heat recovery unit - 2003 – 2004, Tartu Energia AS, Tartu

Bangladesh -

Sri Lanka -



www.chemitec.fi

info@chemitec.fi