

Pablo Melipillan Saldivia

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PROFILE

A result-driven and energetic Chemical Engineer with strong demonstrated analytical and management skills. Expertise in conducting technical studies and providing key analytical support to company managers. Proven abilities to identify, planning and implementing operational improvements. Experience in the Potash and Lithium mining production, and copper industry. Background in carbon capture technologies for power generation, financial statements analysis, and knowledge in the strategic planning and management process.

CAREER HISTORY

RESEARCH ENGINEER - SQM Salar (Chemical and Mining Soc. of Chile), Santiago-Chile *May 2011- Aug 2014*

- Increased 18% the annual mineral extraction for the potash and lithium production by implementing a new operational use for mineral waste produced (2013-2014).
- Rose by 3% the water resources availability through enhancing its control methodology and defining a new water utilization strategy for mining operations.
- Supported the operational strategy definition by planning and forecasting minerals extraction in short, medium and long-term, considering historical data analysis, plant capacity estimation and volume of tailings storage.
- Managed the volume of minerals exploitation in the Atacama Salar to comply with the national environmental regulations (2011-2014).
- Provided process analysing and technical information to assist internal departments in their operational decision-making.
- Advised on Lithium Carbonate production as new business opportunities for SQM by analysing new mineral deposits in Latin American.
- Managed and evaluated research activities to enhance the mine operation performance (minerals transport, solar evaporation rate, plant capacity increase-pam)
- Designed a solar concentration system to increase the potash production capacity by process simulation (gProms).

PROCESS ENGINEER; COLUN (Dairy Plant), La Union-Chile *Jun 2010 – Dec 2010*

- Achieved in meeting the daily and monthly demand of dairy products, managing and motivating a team of 10 staff.
- Increased cheese plant availability by reducing the clean time of pasteurization stage.
- Cut the cleaning time of thermal processes, resulting in water consumption reduction at the dairy plant.
- Planned and programmed yoghurt daily production: seven different products, 180km3 milk average per day.

INTERN - Copper Corporation of Chile (CODELCO), Rancagua-Chile *Sept 2008 – Nov 2009*

- Recommended improvement proposals to shutdowns reduction in Effluent Treatment Plant at Caletones Smelter. The project involved literature review, experimental design and bench scale test. The analysis of data and outcomes interpretation led to a formal report delivered to the company.
- Technical evaluation on new alternative to pH reduction in copper tailings by lab tests, data analysis and interpretation.

MINING CONSULTANT – Viña del Mar-Chile *December 2008*

- Responsible for technical study on copper cathode production from copper refinery wastes. The study involved gathering empirical information, process analysis and theoretical validation. The final report included production processes description, mass and heat balances, and commercial products specification.

ACADEMIC

- Modules Included: Financial Analysis; Design for the Environment; Project Planning - Management & Control; Business Strategy & Strategic Management; Industrial Processes.
- Dissertation: Cost analyse of retrofit coal-fired power station in the UK with post-combustion carbon capture.

- Certificate of Chemical Civil Engineer: six-year program plus two internships and dissertation.
- Conducted techno-economic research on sodium hydrosulfide production from petroleum refinery gasses to separate molybdenum from copper concentrates.
- Dissertation: Analysis operational improvement alternatives to increase the Effluent Treatment Plant availability of Caletones Smelter - Copper Corporation of Chile (CODELCO).

KEY SKILLS AND COMPETENCIES

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| ▪ Strong numeric processing and analytical skills. | ▪ Excellent interpersonal and leadership skills. |
| ▪ Advanced Excel abilities and process simulation. | ▪ Good communication abilities. |
| ▪ Capacity to handle, analyse and interpret both technical and economic data. | ▪ Ability to work under pressure and deliver results on deadline. |
| ▪ Ability to conduct financial statements analysis. | ▪ Adaptable and flexible, capable to perform excellent within a team and individually. |
| ▪ Knowledge in business strategy, and the strategic planning and management process. | ▪ Having strategic thinking, creative, analytical, and broad approach to manage and solve problems. |
| ▪ Grasp in energy industry and circular economy model. | |

SEMINARS AND COURSES

- Nuclear Energy – Scenarios for the deployment of new nuclear power stations (EI, London, 2nd Nov 2015).
- Gas natural seminar (BIEE, London, 14th October 2015).
- Carbon-capture conference: getting ready for phase 2 and 3 (CCS Institute, London, 27th March 2015).
- gProms (Process simulation, SQM, Santiago, 2013)
- ISO 14001 (Bureau Veritas, La Union-Chile, October 2010).
- Member of the British Institute of Energy Economics (BIEE)

REFERENCES

References available on request.