



IAQ QUALITY SUSTAINABILITY AWARD - ONE-PAGE SUMMARY

The One-Page Summary should be in English and submitted as Appendix 1 to your Application. It will also be published on the IAQ Quality Sustainability Award Homepage; <u>http://iaqaward.com</u>. The length of this document must not exceed 1 page.

The name of the quality sustainability	project (max. 100 characters)	
	Telephone	Email
Contact Person		

Project description

Explain the essence of the project, the problem statement, the analysis performed, steps taken, and methodology used. When was it started and when was it completed? What quality methods and tools have been used and why? What are the results achieved and in what way do they support the UN Sustainable Development Goals. <u>https://sustainabledevelopment.un.org/</u> leading towards sustainable development. Mention which UN Sustainable Development Goals in particular, the project supports. (You may delete this support-text in this textbox before submission.)

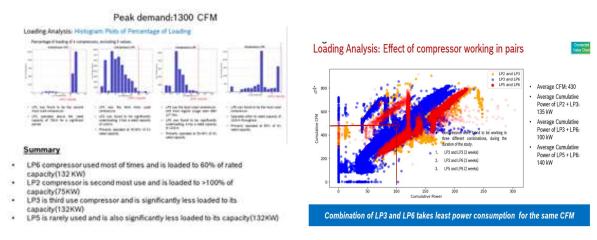
Project:

Intends to reduce energy consumption in the compressor & cooling network by ~5% using artificial intelligence(deep learning) in controlling the compressor and cooling tower working as per real time load.

Steps Taken

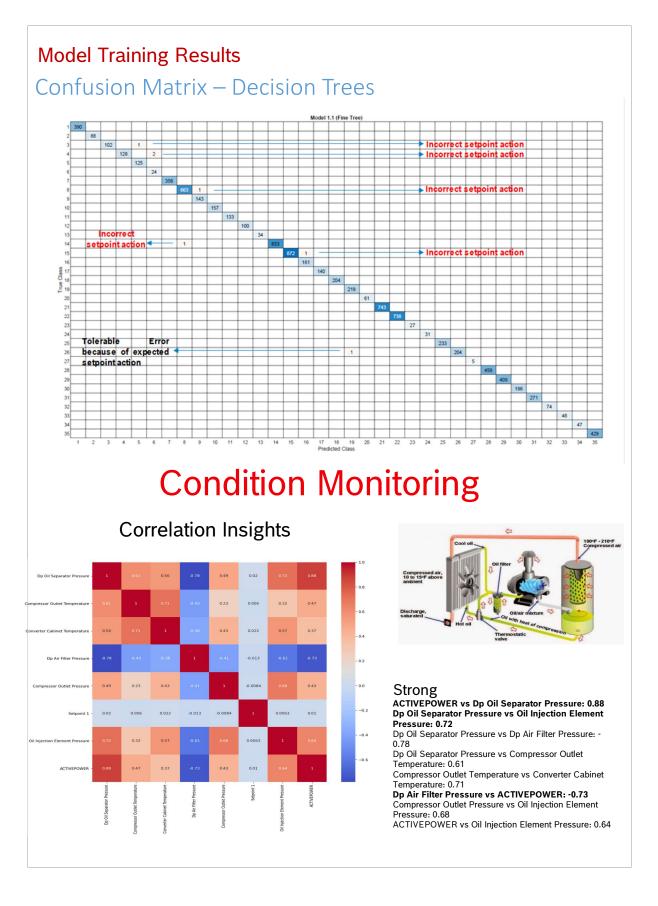
•	Scope finalization and release of orders	May 2021
•	Installation of hardware (CFM meters ,Modbus,	Aug 2021
	PLC, DCU etc. for data capturing)	
•	Trend analysis and best combination of operating	Oct 2021
	compressor and cooling tower parameters propose	ed.
•	Finalization of Machine learning models	Dec 2021
•	Sharing of inputs and aligning proposed solutions	April 2022
	Lab test of models	
•	Implementation at plant and go live	May 2022
•	Performance monitoring and benefits	June 2022

Initial Analysis













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