Project Initialization and Planning Phase

Date	15 March 2024
Team ID	SWUID20240034764
Project Name	Predicting Full Load Electrical Power Output of a Base Load Operated Combined Cycle Power Plant Using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

Current methods lack precision in forecasting full load electrical power output, leading to inefficiencies and potential overproduction. This results in suboptimal utilization of plant resources and increased operational costs. Existing systems do not effectively integrate various operational parameters, hindering comprehensive analysis and prediction capabilities. Inaccurate predictions contribute to higher emission levels due to inefficient fuel usage. Additionally, it affects the scheduling of maintenance, leading to unexpected downtimes and reduced plant availability

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	I am a power plant operator trying to accurately predict full load electrical power output,	current methods are unreliable	they lack precise modeling	Self-employed with a good credit history.	makes me feel stressed about operational efficiency and costs.