

## **ABSTRACT**

*Solar Power Plant (PLTS) is a power generation system that converts solar energy into electrical energy through photovoltaic modules. There are several companies in the field of New Renewable Energy (EBT) in Indonesia, one of which is PT XYZ, which is a company operating in the field of renewable energy, especially solar energy (PLTS). Currently, PT XYZ is implementing the HSM2 PLTS Installation and Procurement project. This project is the installation and procurement of PLTS in two buildings: an office building that uses a ducting system, and a coilyard building that uses zinc. The project is located at Posco Cilegon, Banten Province. In this HSM2 PLTS project, the duration of the HSM2 PLTS Installation and Procurement project was initially scheduled for 180 days until July 8, 2024. However, high-risk work in the coilyard area was delayed until August 1, 2024 due to annual downtime activities, which required the PLTS system to be turned off for internal purposes such as maintenance. Based on these problems, this final project will focus on measuring the level of risk management maturity applied by PT XYZ and what improvement proposals can be used to help solve these problems. This maturity measurement will be carried out using KPM3 (Kerzner Project Management Maturity Model). Based on measurements using KPM3, PT XYZ's results are still far from optimal at each level of maturity, therefore an improvement plan needs to be carried out to help improve its maturity at PT XYZ. In addition, a risk register is created based on the risk identification that has been adjusted by the company that can be used for future projects..*

**Keywords** – Risk Management, Maturity, Kerzner Project Management Maturity Model