ABSTRACT

The rapid and complex development of information technology plays a very important role in human life. The role of globalization and the continuous advancement of technology have influenced the way humans perceive work and live, which is increasingly digitized and relies on the use of technology. Currently, many companies are utilizing information technology in their business operations, one of which is PT Surya Energi Indotama (SEI). *In practice, the Engineering, Marketing, and Sales Divisions have been supported by the use of information technology. However, the information technology used by these three divisions is still limited to several separate applications. For example, proposal and document management is done in OneDrive. Then, data exchange and communication between divisions are still carried out manually, by sending OneDrive links via WhatsApp. Additionally, the preparation and checking of technical and offer proposals are done manually by compiling and reviewing reports one by one. These problems occur because the business operations of* PT SEI *have not been fully optimized with an automated and integrated system. Therefore, a solution is needed in the form of Enterprise Architecture design that can help the company improve the alignment of information technology in achieving its business goals. The Enterprise Architecture design uses the TOGAF (The Open Group Architecture Framework) framework with the ADM (Architecture Development Method) methodology, which consists of the Preliminary Phase, Architecture Vision, Business Architecture, Data Architecture, Application Architecture, Technology Architecture, Opportunities and Solutions, and Migration Planning. The final result of this research is an Architecture Roadmap that can be used as a guide for implementing Enterprise Architecture in the Engineering, Marketing, and Sales Divisions of* PT Surya Energi Indotama (SEI).

Keywords: Enterprise Architecture, TOGAF ADM, Engineering, Marketing, and Sales Division