

**OPTIMIZE DISTRIBUTION EFFICIENCY,  
PETROKIMIA GRESIK STRENGTHENS DIGITAL INNOVATION THROUGH PETROPORT**

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Petrokimia Gresik, an Agro-industrial Solutions company holding member of Pupuk Indonesia, made improvements to the distribution process through a digital application, Petroport. The digitization of port operations is implemented to provide efficiency in every process.

President Director of Petrokimia Gresik, Dwi Satriyo Annurogo, Monday (19/9) explained that Petroport is a web-based system and mobile application that have the functions of monitoring, recording, reporting, and determining decision recommendations digitally and automatically (automatic decision systems) which aims to improve the performance of loading operations of the Petrokimia Gresik Port.

He revealed that Petroport over the past few periods has provided added value for the company, namely by providing accurate and real-time information to all stakeholders, providing logistics costs, and optimizing loading and unloading performance at the port.

"Effective and efficient port operations will ultimately increase competitiveness for Petrokimia Gresik. The products produced will be an option for farmers and other consumers," said Dwi Satriyo.

The savings obtained by Petrokimia Gresik since the application of Petroport include the cost of loading and unloading on average can be reduced by up to 20 percent. Thus, this application can support the cost reduction program run by Petrokimia Gresik.

Then, port performance becomes more optimal so that loading and unloading activities can be completed faster than the agreed contract. This can be seen by the decrease in debt demurrage that must be paid to ships, as well as the increase in despatch income or compensation costs received by the company.

In 2021 despatch's revenue increased by 70% to 1.13 million USD compared to the previous year. The same performance is also shown in the first half of 2022, where the realization of despatch reached 920 thousand USD.

The optimization of port performance is obtained from the innovative features present in the application. **First**, Petroport has the function of recording loading and unloading activities as well as determining decision recommendations digitally and automatically (automatic decision systems), because Petroport is equipped with a Smart Dashboard.

"We can input loading and unloading data mobile wherever we are. The input of ship data, ship arrival schedules, and recording loading and unloading activities, can be done using cellphones or tablets," he explained.

With the help of this technology, the company is also able to reduce the need for Human Resources (HR) by 45%, because the work becomes more effective and efficient. This is in line with the Company's Work Program to always make efficiencies, especially in the field of HR.

**Second**, another feature that is also very innovative is Load Unload Routing (LUR) which can provide ship queue information, estimated length of activity, and estimated ships that will depart. In addition, it also provides recommendations for the most efficient loading and unloading lines and tools, as well as real-time loading and unloading information.

"If there is a red indicator, it means that the loading and unloading speed is under the contract, so follow-up steps must be taken immediately so that demurrage does not occur. While the green color means that loading and unloading activities are running according to the existing traffic rate," he said.

**Third**, Petroport is also equipped with an Automatic Port Reporting (APR) feature. This feature is used to automate port performance reporting systems. Through this feature, a loading and unloading performance report can be obtained without having to process the data first.

"In this feature, there is an alert or alarm if there is a KPI (Key Performance Indicator) that is not achieved, so it can be easy to identify the cause of the problem and take follow-up steps," he said.

**Fourth**, to supervise loading and unloading activities, Petroport is equipped with a Digital Port Supervising (DPS) feature where the surveillance system is carried out based on CCTV equipped with a mobile paging system. This feature can be controlled directly in the port command center.

Through this feature, operators can also monitor loading and unloading activities even though they are not at the port. and can communicate or provide warnings if there are discrepancies in loading and unloading operations at the port.

**Finally**, Petroport also features an Electronic Chart and Display Information System (ECDIS) equipped with Automatic Identification Systems (AIS) and an Early Warning System (EWS). Where AIS can monitor the position of all ships that will be berthed at the Petrokimia Gresik Port. So that it can estimate how long the journey will take and the time the ship will arrive at the port.

Meanwhile, EWS can maintain the condition of the ship and other assets on the dock when ships are passing around the port area. As is known, the Petrokimia Gresik Port is on the path of passing large ships to Surabaya or vice versa. This feature can provide warnings to passing ships to maintain speed by existing regulations.

"This application has also received the attention of many parties, several other companies have benchmarked into Petrokimia Gresik to study and adopt Petroport. Of course, this is an encouragement for us to continue to innovate in improving services and providing fertilizer products with high competitiveness so that they can make a positive contribution to the realization of national food security," he concluded.

PT Petrokimia Gresik

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