

2020 Heavy Lift Awards

Logistics Plus® has been named a finalist for the 2020 Heavy Lift Awards
Project of the Year presented by HLFPI magazine.

**HEAVY
LIFT
AWARDS
2020**

FINALIST
Project of the Year

LOGISTICS PLUS OVERVIEW

Logistics Plus Inc. (LP) was founded over two decades ago in 1996 with three employees. We are a medium-sized company humbly headquartered in Erie, Pennsylvania; but our customer base is impressive, boasting a list of some of the most-admired companies in the world.

Today, the company has 450 employees operating in more than 27 countries. Our global headquarters in Erie houses approximately 150 members of our team. The company's customers include many Fortune 500 corporations, including retail giants such as Google and Amazon. Logistics Plus has dedicated employees that provide LTL Freight Solutions, Truckload Solutions, Warehousing & Fulfillment, Customs & Compliance, International Freight Forwarding, Supply Chain Solutions, Business Intelligence, and Project Cargo & Breakbulk. As one of our specialties, we are an industry leader in managing Project Cargo. Our Project Cargo Division focuses mainly on industrial projects in the power generation, oil & gas, rail, renewable energy, mining, and infrastructure industries. Logistics Plus manages everything from domestic projects, to worldwide solutions that encompass our clients entire supply chain. We manage projects from start-to-finish, and everything in between.



EXAMPLE PROJECT NAME:

VEAS Liquid Bio-gas Storage Tank ("Take That Hill")

ORIGIN & DESTINATION:

This project featured multiple pieces of equipment coming from various origins. The origin locations were Bandirma, Turkey; Kalmar, Sweden; Zaventem, Belgium; and Malkowo, Poland. The destination of this project was a tricky job-site in Slemmestad, Norway.

PRODUCT:

A liquid bio-gas (LBG) storage tank, modules, chiller, condenser and various skids.

WEIGHT/DIMS:

The total weight for this project was 256 metric tons and the volume was 2,088 cubic meters. The liquid bio-gas storage tank itself was 24 meters long, 5.4 meters wide, and 5.6 meters high weighing 80 tons.



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UNIQUE APPROACHES TO OVERCOME PROJECT CHALLENGES

The Logistics Plus project cargo team was forced to implement unique techniques in order to complete this project successfully. First, the team had to call the private cement terminal in Norway as it became apparent there was only one feasible route to the project destination. On one of the remote roads, gravel was applied to counter the icy conditions. On top of that, wires were lifted and gates were removed due to the size of the storage tank. Our team also needed to perform soil stability tests at the job-site to determine if the newly filled road banks and existing underground tunnels could support the transport of our over-sized, over-dimensional products. Lastly, Logistics Plus performed "Swept Path Analysis" to ensure that we could round a building corner without jeopardizing the safety of the bio-gas storage tank.

THE USE OF MULTIPLE TRANSPORT MODES FOR THIS PROJECT

Due to the nature of this project, the Logistics Plus team utilized nearly every mode of transportation to complete this project. The liquid bio-gas storage tank was trucked from a factory to the Bandirma port, put on a vessel from Bandirma to Slemmestad Norcem terminal, trucked from Slemmestad to the VEAS job-site, and then lifted into position using cranes. The other accessories including the modules, chiller, and condenser also required multiple modes of transportation. The majority of parts were trucked to the job-site directly from Turkey and Sweden. We also expedited accessories via air freight from Turkey, and we also trucked and used a ferry for the remaining products in Belgium and Poland.

THE EMPLOYMENT OF ADVANCED EQUIPMENT & TECHNOLOGY

Logistics Plus utilizes an industry leading global logistics platform that has been developed, tested, and implemented by our in-house Information Technology (IT) team. Our services are fully customizable to ensure that our client receives only the most accurate, real-time information for their product(s). We provide unparalleled visibility while analyzing and managing every aspect of a supply chain. We also offer proven processes, extensive experience, and constant support for our global customers. With an unmatched network of partners and affiliates, our flexibility and desire to help our clients succeed is unmatched. For this specific project, Logistics Plus was required to complete a geosurvey of the land at the job-site as well as implement geolocation tools to identify and track the project every step of the way.



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DETAILED PLANNING FOR THIS PROJECT

- February 1, 2018: Began the pre-project study
- February 8, 2018: First job-site visit and initial route survey completed
- July 16, 2019: Received templates of the job-site to determine the trucking route
- October 24, 2019: Finalized the route survey
- November 5, 2019: Began loading the storage tank to the vessel in Bandirma, Turkey
- November 8, 2019: Completed a geosurvey of the job-site
- November 25, 2019: Conducted a swept path analysis at the job-site to confirm dimensions
- December 3, 2019: Discharged the tank from the vessel at Slemmestad Norcem terminal
- December 3, 2019: Set up main crane
- December 4, 2019: Applied gravel to remote streets to counter the icy conditions
- December 4, 2019: Began the transport of the storage tank to the job-site via truck
- December 4, 2019: Set up an auxiliary crane and exclusion zone to lift the tank into position
- January 6, 2020: Delivered all the remaining items to the job-site

SAFETY CONSIDERATIONS FOR THIS PROJECT

The job-site was located at the top of a hill. The hill also has a wastewater treatment plant built into it. Because of the wastewater plant, neither cranes or trucks could be positioned over certain areas of the site. The road at the top of the hill was just recently constructed, but the banks on the sides of the hill went down steeply. This posed a potential problem because the flat edge of the road involved a hard turn on one side of the mountain. After carefully studying the bank and completing test run simulations, we found that the current bank would be sufficient as long as the truck driver executed the turn proficiently. Due to safety concerns and the weight of our load, the wastewater treatment plant had to suspend work during the critical transportation times of our project. Nobody else was able to access this road and the surrounding areas.

BENEFITS TO OUR CLIENT

By careful study and planning, our team flawlessly executed this project from start to finish. One of the major benefits to our client was how quickly we were able to get the liquid bio-gas storage tank in place. Due to the job-site's location, there was a building that was potentially going to need to be destroyed and removed so that we could complete our mission. This would have caused the project to be delayed until the demolition and cleanup of the building. Rather than the demolition, our team completed a geostudy and swept path analysis to avoid this delay and cost. Our team meticulously planned and prepared each step of the project so that we minimized the suspension of work at the waste water treatment plant as well as completing the project in a timely manner.

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IMAGES SUPPORTING THIS PROJECT



ADDITIONAL SUPPORTING MATERIAL

The below video was created by the Logistics Plus project cargo team using drones, GoPro's and cameras. Our team filmed various parts of this project to show how the Logistics Plus project cargo team successfully executed this challenging move.

<https://youtu.be/T8XB6mUyCoA>