

## POWER MOVES: TRANSPORTING 7 TRANSFORMERS

Moving transformers across the globe is no small feat- it's a high-stakes puzzle where every piece, from logistics to communication, needs to align to keep the project on track. Fracht Group's successful move of seven transformers, totaling 4.78 million pounds and covering over 9,000 miles, marks a significant achievement for its team.

### Project Overview

Beginning December 2023 and concluding September 2024, this long-haul move involved the transport of seven large transformers weighing over 680,000 lbs. each from Izmir, Turkey, to the end-user's substation in Medicine Bow, Wyoming.

The transportation occurred in four segments, starting with the shipment of transformers via vessel. Upon reaching the Port of Houston, the transformers were transported by rail to a holding site, where they were individually transloaded onto a heavy-haul perimeter trailer for a 42-mile trucking journey. Together, the trailer and the transformer weighed an astounding 1.2 million pounds. Due to route spacing limitations, the transformers were then transferred from the perimeter trailer to an 18-line trailer for the remaining distance to the substation.

### Challenge

This project's complexity was evident from the start, but the true test of Fracht Group's expertise came when the cargo arrived at the port of Houston for its final leg of the journey.

Fracht Group's North American teams expertly managed expected challenges, including frost law compliance and obtaining multiple permits. However, an unexpected delay arose when the permitting process was complicated by pavement damage on a bridge—caused by an earlier transport from another carrier. Though the bridge had been repaired some years prior, Fracht Group worked with the end client to secure a commitment for any future repairs, enabling the project to proceed without further interruption.

By fostering strong relationships and maintaining consistent open lines of communication, Fracht Group overcame these obstacles and ensured project continuity.

### Results

Despite the challenges, all seven transformers were successfully delivered to the substation on schedule for electrolyzation. Heavy planning went into this move to ensure each step was thoroughly prepared and considered prior to execution. The project's success also relied on effective collaboration among stakeholders, including Fracht Group offices in Turkey and the U.S., partner agents, government entities, engineers, transportation providers, the manufacturer, and the end user.

This achievement showcases Fracht Group's expertise in handling large and complex shipments, reinforcing its reputation as a trusted partner in energy transport solutions.

### By the Numbers

Total weight of  
transformers



**4.78**  
million lbs. total

Individual weight  
of transformers



**683,433**  
lbs. ea.

Individual volume  
of transformers



**7,499.14**  
ft<sup>3</sup> ea.



Distance traveled  
**9,000+** miles



Modes of transportation  
**3** (vessel, train, truck)