



**Developed a solution to identify efficient and safe routes to transport shipments and hazardous materials across the US via road, rail & water**

**CLIENT**  
Energy & Utility client

**INDUSTRY**  
Energy & Utilities

**COUNTRY** USA

**THE BUSINESS PROBLEM**

The customer had to transport shipments and hazardous waste however did not possess all the information required to safely transport it from one point to another. They had challenges avoiding schools and other safe zones without detailed map data of the routes they need to take.

The client also wanted a system that provided multiple transit options like Highway to Railroad to Barge with limited to no real time data

**SOLUTION**

After a detailed understanding of the problem, the Kanini team developed a web-based decision-support tool for the customer to transport hazardous materials efficiently and safely. The solution is capable of evaluating routing options based on safety, cost and other considerations associated with transporting hazardous shipments.



The solution focuses on moving commercial spent nuclear fuel (SNF) from nuclear power plants to an alternative destination. It has the ability to map the safest route based on the transportation options available from point A to the designated destination. The options include:

- ❖ Highway
- ❖ Highway to railroad
- ❖ Railroad
- ❖ Barge network
- ❖ Barge to Railroad
- ❖ Highway to Barge to Railroad

With multi layered maps and other on-road details, the solution enabled the customer to move their shipments more efficiently using the safest route. This Batch route feature allows the customer to organize multiple routes simultaneously.

The Solution also provided a report of the route travelled providing clarity on what street network was used without actually mapping it.

## THE RESULTS



## ABILITY TO SAFELY PLAN AND ROUTE HARZARDOUS MATERIALS



We're Your Partner in Building Sustainable Software Solutions.  
We provide management and engineering talent with a passion for your product.  
Our teams listen, plan with you, and develop solutions to help you succeed.



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