PROBLEM STATEMENT

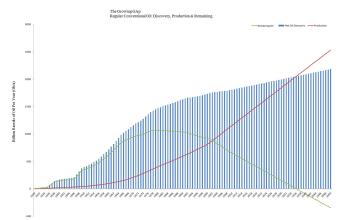
OUR GOAL IS TO RESEARCH THE IMPACT OF OPENING AN INTERMODAL FACILITY IN JOLIET, ILLINOIS. COLLABERATING WITH MI-JACK, WE WILL ALSO LOOK AT CURRENT AND FUTURE LAYOUTS AND TECHNOLOGIES OF INTERMODAL YARDS IN ORDER TO INCREASE EFFICIENCY.



OBJECTIVES

- 1. ANALYZE THE IMPACT OF PEAK OIL
- 2. RESEARCH ALTERNATIVE FUEL SOURCES AND IDENTIFY THEIR APPLICATIONS
- 3. MAP THE PROPOSED FACILITY
- 4. COMPARE THE USE OF PATHFINDER TECHNOLOGY TO TRADITIONAL LAYOUTS
- 5. CREATE A COMPUTER PROGRAM THAT CAN BE USED TO TEST THE EFFICIENCY OF AN INTERMODAL FACILITY LAYOUT
- 6. DEVELOPE AN ANIMATED VIDEO TO VISUALIZE HOW A FACILITY FUNCTIONS
- 7. PROPOSE A DESIGN FOR AN ALTERNATIVE FUEL STATION LOCATED ADJACENT TO THE INTERMODAL FACILITY

PEAK OIL CHART

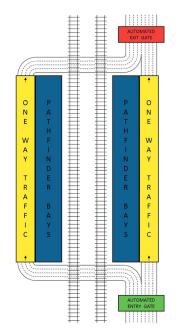


ALTERNATIVE FUELS TABLE

C OSM offic estaurants and actories. As of 2000 inited States producing in excess of 2.9 billion gallons of te vegetable oli ually: WVO_SV(compared with petroleum based diese fuel. R100 has 103% the energy of gasoline or 9 of diesel. B20 has 109 of gasoline or 99% of and greate of either hydrogen tank, a fue rogen gas is about me as the energy natural gas pre pproximately half o r agricultural waste d E10 reducer around the world. Underground reserv 3000-3600 PSL 1 Ib CN around the world. Inderground reserv alfur compounds and ater. Then cool to -256F. performance as diesel counterparts. 64%

EXIT GATE EXIT GATE

LAYOUT WITH PATHFINDER



TRADITIONAL FACILITY LAYOUT