



Optimizing the Industrial Process of Steel (OIPS) Pioneering Steel: From Iron-Ore to Eco-Core.

Background

A manufactory that produces Green-Steel using innovative methods to reduce iron-ore via Eco-Friendly approaches.

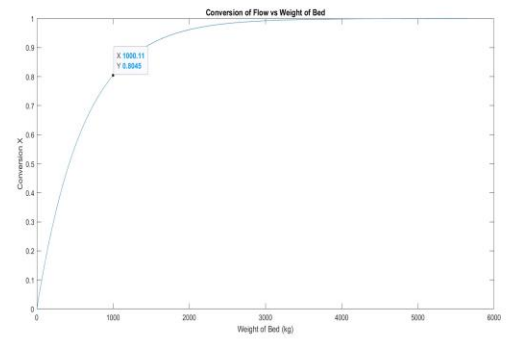
Materials

Iron-Ore to be reduced.
Ammonia reducing agent.
TSP method.

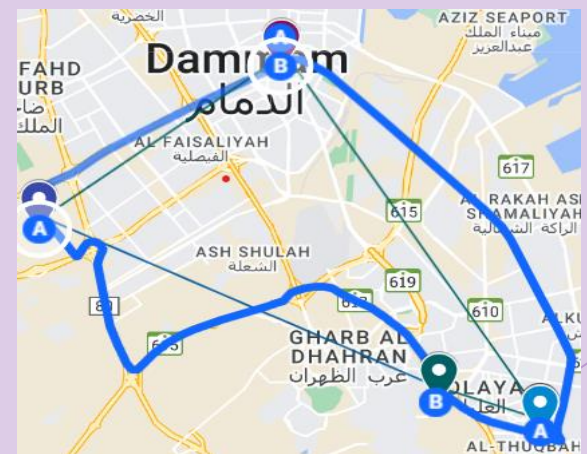
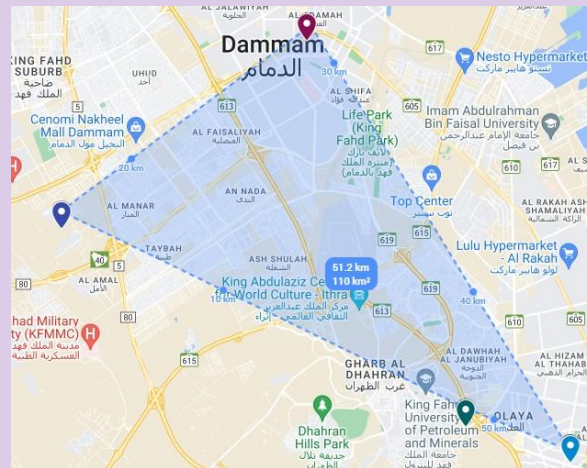
Results

680,000 Kg/year of Water as by-product.
1,135,000 Kg/year Gree-Steel produced.
~ \$4,000,000 Estimated equipment cost.

Supporting material



$$z = \sum_{i \in N} \sum_{j \in N, j \neq i} dij \times x_{ij}$$



Key Findings

Zero CO2 emissions.
High quality green-steel.

Prototype

