AWARD OF EXCELLENCE

NEW SCHEME
Lusail City District Cooling
Lusail City, Qatar

ABOBAKER AL HADRAMI

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LUSAIL City Overview

- 5,175 plots and total area: 38 km²
- To accommodate
  1. More than 200,000 residents
  2. 170,000 workers
  3. 80,000 visitors
- Consist of 19 districts (residential, commercial, hospitality, and retail)

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Lusail City Utilities

District Cooling

Pneumatic Waste Collection

Gas Network

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Lusail City DC System

- District cooling system will serve 866 plots, through 170 km (supply/return) underground piping from four (4) production plants.

- Total production capacity will be about 340,000 TR

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The High Efficiency/Quality DC System

• The network design:
  - A distribution network with strategically placed loops and isolation valves

• Certified EN 253 family of standards:
  - All welded pre-insulated steel piping system with integrated leak detection system

• Energy transfer stations – ETS:
  - Smart Metering Solutions
  - Automated Meter Reading and Billing

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Challenges

- Awareness
- Network preservation
- Gradual development temporary cooling
- Technical planning & financial modeling
Contribution to the State of Qatar

Eliminates Over 500,000 Tons Of CO₂ emissions from the environment per year

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