ESH7AN

WHERE DATA MEETS ENERGY

ATM QATAR

جامعة حمد بن خليفة
HAMAD BIN KHALIFA UNIVERSITY

Kholoud Darwish - Yousif Ahmed

Al-Anoud Al-Kubaisi - Faisal Bustami

THE PROBLEM

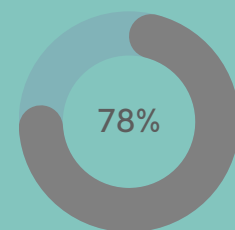Qatar's EV charging infrastructure cannot keep up with the rapid growth of electric vehicles.

STATIONS ARE:

LIMITED

Just [1] Over 300 Stations

UNEVENLY DISTRIBUTED

78%

78% of [2] EV Stations are in doha

SOLUTION CRITERIA

Alignment With QNV & Tarsheed Vision

ترشيد Tarsheed

Scalability Across Qatar

Long-Term Sustainability

∞

ESH7AN

https://esh7an.lovable.app [3]
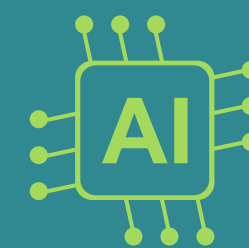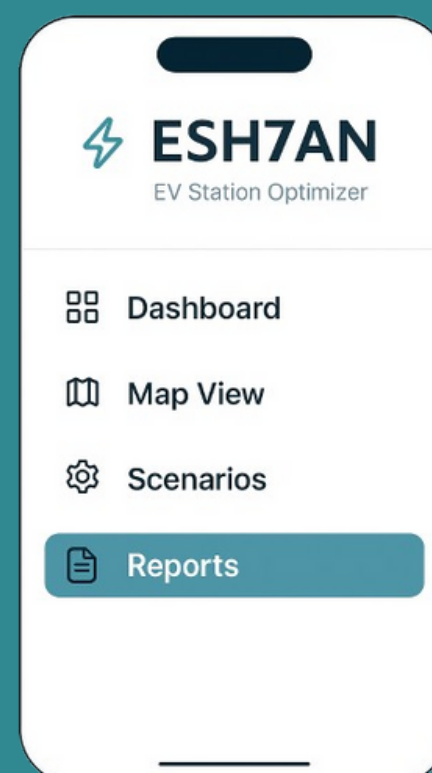
ESH7AN is an AI-powered optimization system that helps engineers identify the best EV charging station locations across Qatar.

⚡ ESH7AN
EV Station Optimizer

▥ Dashboard
🗺 Map View
⚙ Scenarios
📄 Reports

AI

GIS

KEY FEATURES

- **AI Prediction:** identifies future charging demand hotspots

- **GIS Mapping:** visualizes optimal site locations

- **Load Flow Analysis:** checks grid capacity to prevent overload

OTHER SOLUTIONS

Modular Fast-Charging Units
Mobile fast-charging trucks that can be deployed anywhere to support areas with low charging coverage.

✅ Flexible
✅ Quick Setup
❌ Short-Term

Solar-Powered Network
Fixed charging stations that run entirely on solar energy, reducing grid dependence and operating in remote or low-infrastructure locations.

✅ Renewable
✅ Remote-Ready
❌ High Overhaul

← References