

H,- Optimize Investment Report

Selected Location • 23.044, 70.62

Viability Score: 159 • Risk: Moderate

Location details, scores, and summaries

Coordinates	Region
23.0440°, 70.6200°	Gujarat, India

159/300

Grid Connection
400 kV
Substation 5 km

Response Time
< 10 seconds
Load following

25% (₹25.0 Cr)
10% (₹10.0 Cr)

Infrastructure

Transport, power, and water infrastructure

Transportation Access

Port Access

90/100

Nearest Port:

Kandla

Distance:

45 km

Port Capacity:

120 MTPA

Road Connectivity

85/100

Highway Access:

2 km

Road Quality:

Excellent

Rail Connectivity

75/100

Nearest Station:

Gandhidham

Distance:

8 km

Power Infrastructure

Grid Connectivity

95/100

Voltage Level:

400 kV

Substation Distance:

5 km

Grid Stability:

High

Renewable Energy

88/100

Solar Potential:

5.8 kWh/m²

Wind Potential:

6.2 m/s

Water Infrastructure

Water Sources

21.8/100

Primary Source:

Municipal Supply

Source Distance:

3 km

Water Quality:

Good

Water Security

85/100

Annual Availability:

95%

Backup Sources:

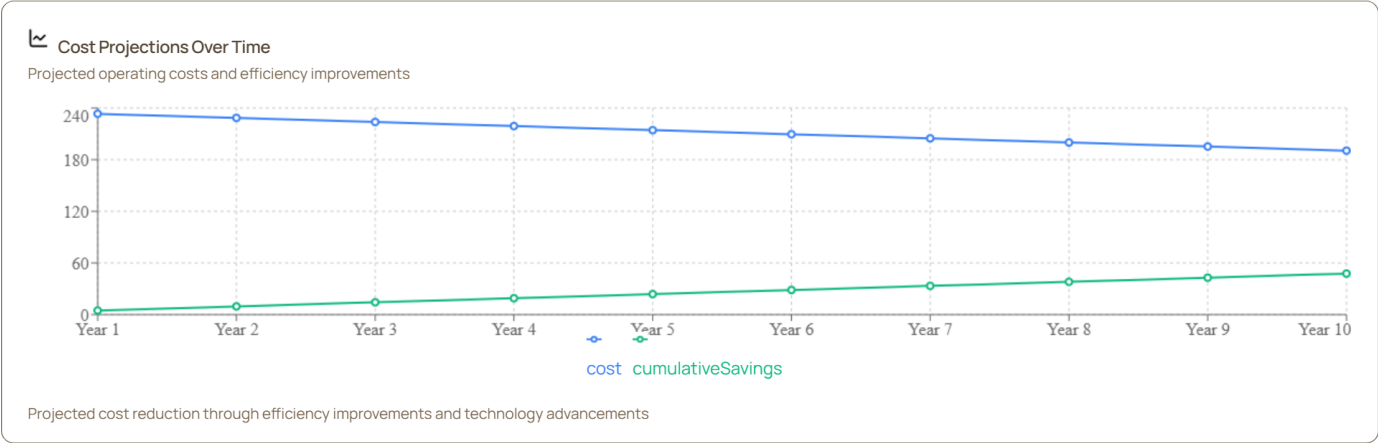
2 sources

Cost Analysis

CAPEX, OPEX, and cost projections

CAPEX Breakdown	
Total capital expenditure components	
Equipment & Machinery	₹280 Cr
Land & Infrastructure	₹45 Cr
Electrical Systems	₹35 Cr
Permits & Licenses	₹15 Cr
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Total CAPEX	₹375 Cr

OPEX Breakdown	
Annual operating expenditure components	
Electricity	₹45 Cr/year
Water & Utilities	₹8 Cr/year
Maintenance	₹12 Cr/year
Labor & Administration	₹6 Cr/year
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Total OPEX	₹71 Cr/year



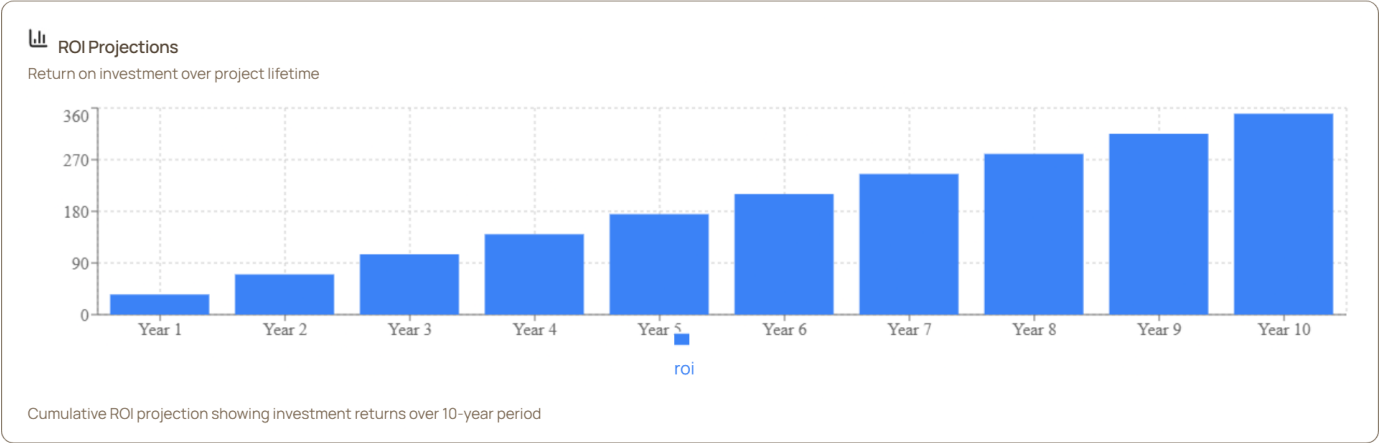
cost

cumulativeSavings

Revenue Model

Revenue streams, pricing, and ROI

Revenue Streams		Pricing Model	
Projected annual revenue breakdown		Hydrogen pricing strategy and market positioning	
Hydrogen Sales	₹125 Cr/year	Production Cost	₹238.03/kg
Carbon Credits	₹15 Cr/year	Market Price	₹450/kg
Grid Services	₹8 Cr/year	Gross Margin	22%
Technology Licensing	₹5 Cr/year	Premium Positioning	+15% above market
Total Revenue	₹153 Cr/year		



Financial Projections

KPIs, 20-year projections, and risk

🕒 Payback Period

2.6

years

75% of target period

% ROI Analysis

35%

annual return

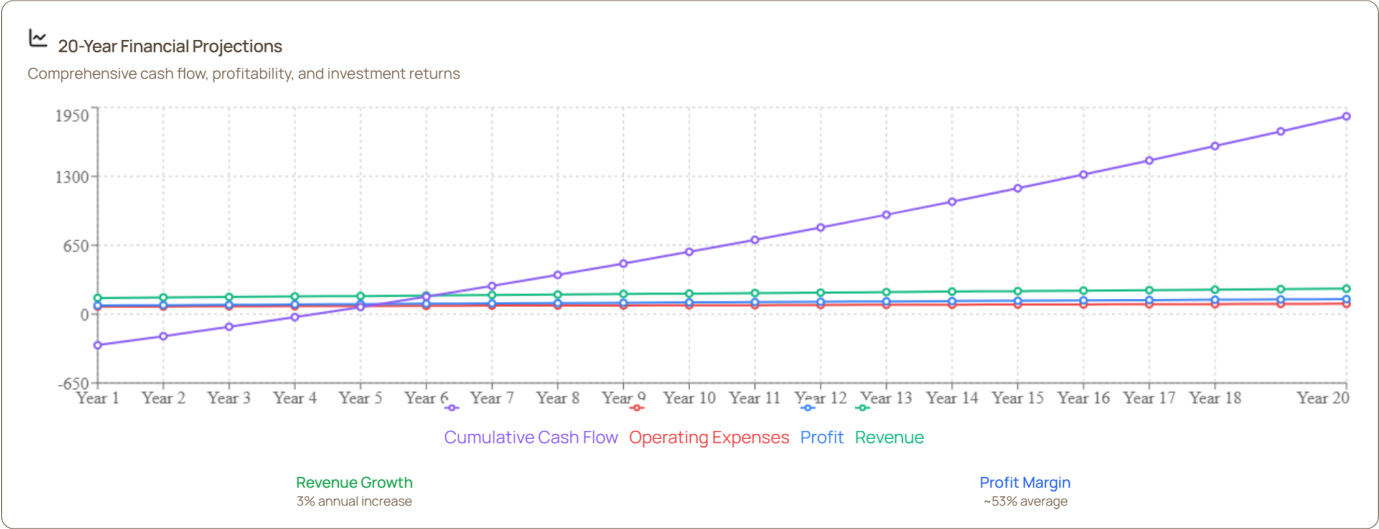
Above industry average

↗️ NPV Projection

₹450 Cr

net present value

20-year projection



🛡️ Risk Assessment

Key risks and mitigation strategies

● Technology Risk

Low - Proven PEM technology

● Market Risk

Medium - Growing demand

● Regulatory Risk

High - Policy dependent

● Execution Risk

Medium - Infrastructure ready