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绿色动力 驱动未来

Green Power
Shapes the Future

Application-Oriented Breakthroughs in the Cross-Regional Hydrogen Market

Dongfang Electric（Chengdu）Hydrogen Technology Co.,LTD

Hongkong,2026

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ABOUT DEC

Dongfang Electric Corporation(DEC), based in Chengdu, China, is one of the largest power generation equipment manufacturers in the world. We deliver integrated solutions, equipment, and services to the global energy industry.

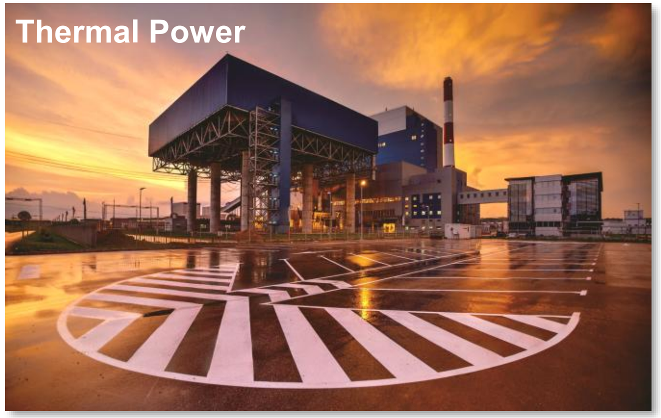
Long history in energy industry	Domestic Share market	Cumulative delivered capacity
68 years	＞33%	800+GW

Qualified employees	Subsidiaries
22000+	181+


Hydro Power Baihetan


Wind Power


Solar Power


Thermal Power


Nuclear Power

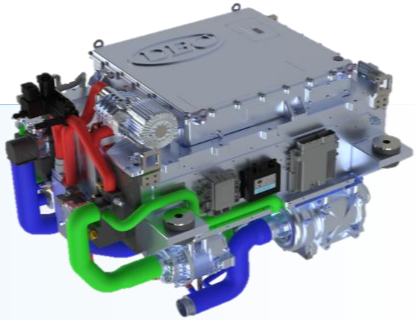

Gas Power

ABOUT DEC Hydrogen

Dongfang Electric (Chengdu) Hydrogen Technology Co.,LTD serves as the core platform for the development of DEC's hydrogen energy industry. With a series of EL&FC products, we provide customers integrated solutions, equipment, and services.

10-500Nm^3/h full range PEM Electrolyzer
500/2000 Nm^3/h solutions available

1000-2000 Nm^3/h full range ALK Electrolyzer
hydrogen-ammonia-methanol, and fine chemical applications



1,300+ vehicles across 17 cities
Mileage exceeds 60 million kilometers
Over 20,000 tons carbon reductuion

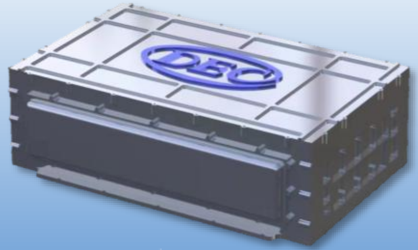
Outlook based on real application：Transportation

Heavy-duty scenario

- Range requirement > 800km
- Comprehensive hydrogen consumption < 10kg/100km
- Endurance > 20000h
- Proportion of fuel cost in TCO < 50%

Economically Viable for Large-Scale Adoption

Disparity：Fuel Cost & Durability



Outlook based on real cases: Distributed Energy System (DES)

From transport to multi scenarios: the industry enters a opportunity window.

Hydrogen Comprehensive Demonstration

Combined Heat and Power System

Integrated Multi-Energy Supply System

Cross-Regional Cooperation：The Deeper The Broader

Era of Scenario-Oriented Product

Shifting focus from technology-first to demand-first, scenarios define product.

Dual Engines: Policy + Economy

Policy support lays foundation;
Economic viability ensures sustainable growth.

Cross-Region Replication

Replicable success models accelerate market expansion across industries.

Opportunities

Customized for local conditions & Cooperation

Challenges

Cross-Regional Barriers in Hydrogen Market

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Ⅰ. Foundational Standard Divergence: The ‘Babel’ Barrier

Slow progress and limited outcomes of unifying the standard.

Ⅱ. Carbon Accounting Difficulties constrains Recognition of Hydrogen's Green Value

Still a long way to go.

Ⅲ. Incomplete of Risk-Sharing Mechanisms

The ‘Chicken-and-Egg’ dilemma at commercialization market.

Good financial support but lack of other guarantees.

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Suggestion: Building Trust

- **Accelerating Multilateral/Bilateral Recognition：**

  Mutual Recognition, not One-Size-Fits-All.

- **Enhancing Carbon Accounting and Certifying System:**

  Manufacturing companies and investors could also participate to find a feasible solution rapidly.

- **Optimization of risk-and-benefit-sharing Mechanism and further Utilization of Fund:**

  Towards infrastructure.
  Priority to value-add services, such as providing scenarios and connecting all segments of the industrial chain.

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Co-create value, share success！
Welcome to Chengdu!
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DEC inside
FUEL CELL CITY BUS
绿色动力 驱动未来
东方电气氢燃料电池公交车