

# Hydrogen Production Activities in Japan

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- 2. Roadmap on hydrogen production in Japan
- 3. Market applications for PEM electrolyzer in Japan
- Cost targets for electrolysis and hydrogen production costs

#### 1. NEDO's activities in hydrogen production





2. Roadmap on hydrogen production in Japan

2.1 Strategic Road Map on Hydrogen and Fuel Cells





#### 2. Roadmap on hydrogen production in Japan 2.2 Roadmap on Hydrogen Production RD





3. Market applications for PEM electrolyzer in Japan





3. Market applications for PEM electrolyzer in Japan



4. Cost targets for electrolysis and hydrogen production costs



- Cost target for hydrogen production is JPY 30/Nm<sup>2</sup>, which is equivalent to USD 0.25/Nm<sup>2</sup>.
- Initial investment cost target for electrolysis is JPY 200,000/Nm<sup>3</sup>/h USD 1,700 /Nm<sup>3</sup>/h