



# The role of hydrogen in a low carbon future

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SVP, Hydrogen and CCUS



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## Our purpose

Reimagining  
energy for people  
and our planet



Our ambition

*to become a*

*Net Zero  
company*

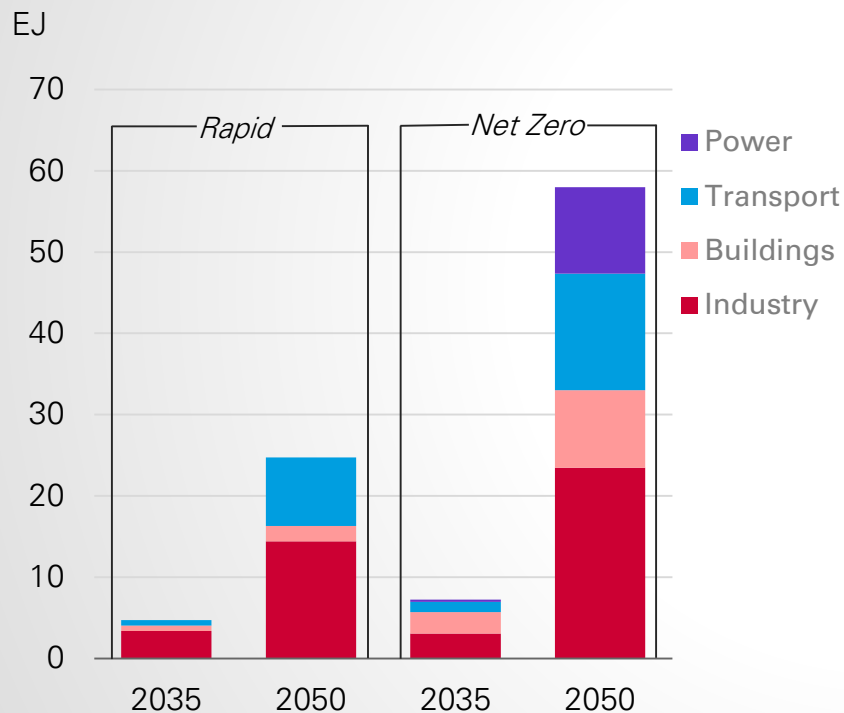
**by 2050 or sooner** and to help  
the world reach that goal



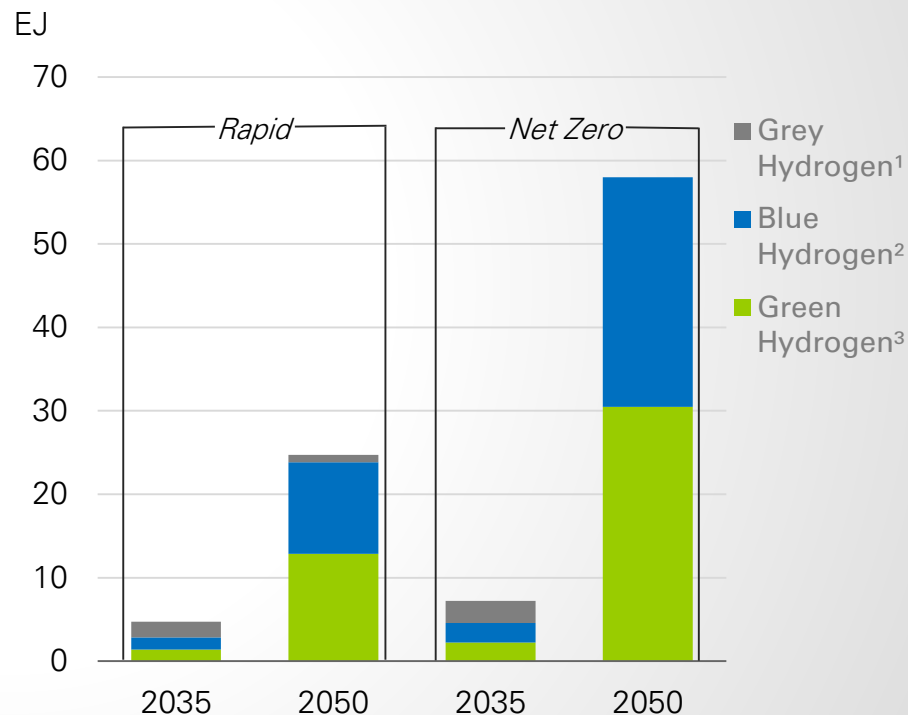
*from IOC to IEC*

# Consumption and production of hydrogen

## Hydrogen use by sector



## Hydrogen production by type





# Building momentum in clean hydrogen

Using our

*existing capabilities*

- **0.6m tonnes** hydrogen used in our operations
- Technology
- Partnerships

We are accessing

*new markets*

- Power
- Industry
- Transport

Guided by

*our aims*

- **10%** of clean hydrogen market<sup>1</sup> by 2030

(1) In core markets

# Geraldton green hydrogen feasibility study - Australia



## Pilot Scale Plant Design

- Evaluation of operating model options for the pilot facility
- Financial break evens and funding requirements



## Commercial Scale Potential

- Determine potential cost/tonne of green ammonia/hydrogen at scale
- Deeper evaluation of the renewable energy requirements



## Market Study

- Understanding of end-user markets both domestic and export
- Potential applications for power fuels usage

"This feasibility study is an important step towards developing a large-scale export project and understanding this hydrogen value chain in full."

Dev Sanyal,  
EVP of bp Gas and Low Carbon Energy



# bp sees partnerships as a vital ingredient to delivery of our hydrogen ambition



- bp brings significant value as a partner:
  - Ambition and financial frame
  - Ability to deliver large and operate scale projects
  - Integration across complex energy value chains
  - A strong track record in partnership and managing multiple stakeholders
  - Strong, well established relationships throughout our core markets
  - Ownership of large-scale early demand
  - Advantaged position in HD transportation
  - Customer focus
- bp is excited about working with Japanese partners and customers.