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H2 Future Mobility Strategy



AN INITIATIVE OF THE PORT KEMBLA HYDROGEN HUB

## Global Centre of Excellence for Hydrogen Heavy Vehicles

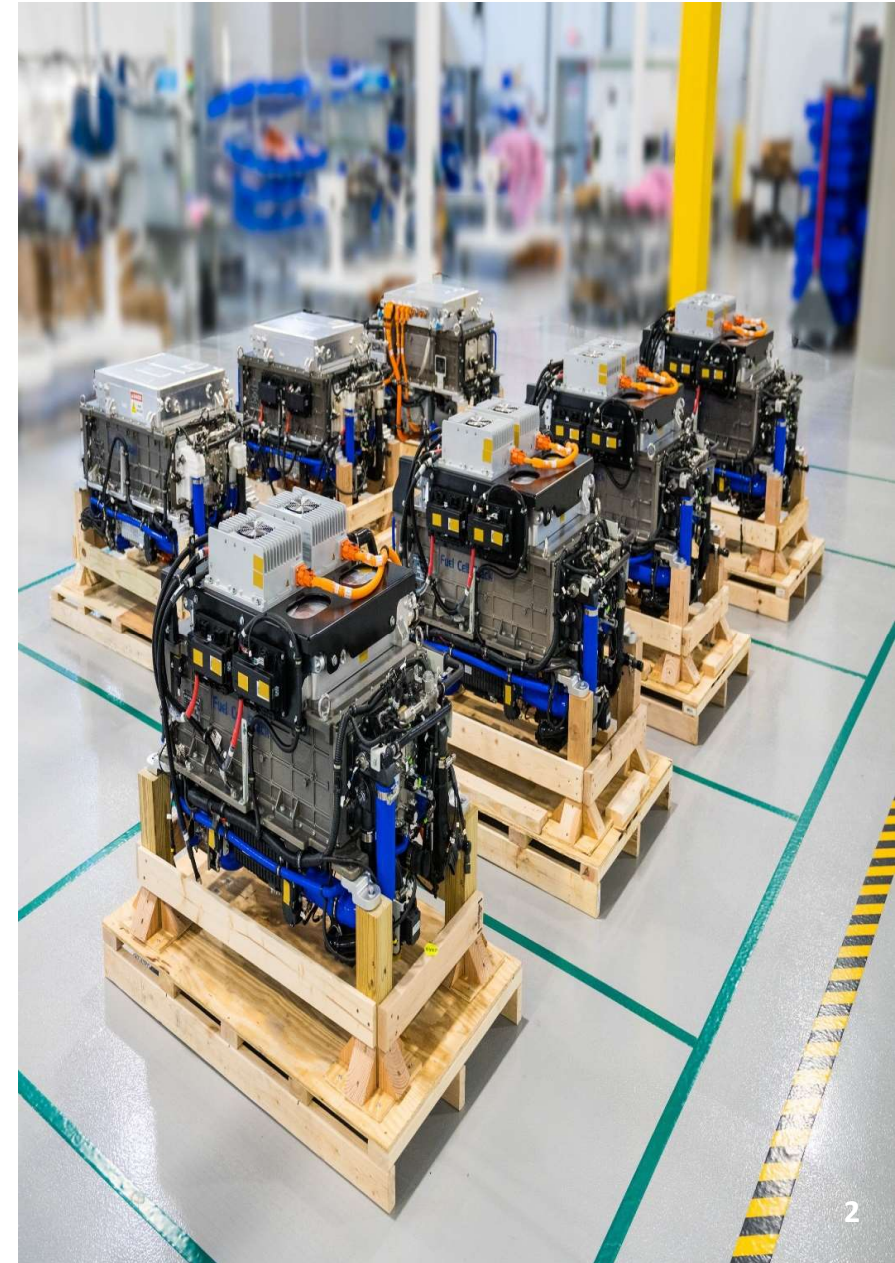
**Fuel cell and hydrogen combustion engine** technologies can decarbonise diesel powered **heavy transport** - a **major source of carbon emissions**.

The **Vision** of creating a **globally recognised Centre of Excellence for Hydrogen Heavy Vehicles** in the **Illawarra Shoalhaven** region is already well advanced.

The **H2 Future Mobility Strategy** will generate the following outcomes:

- Up to **1,000 new jobs**
- Significant investment in **new industry capacity** and **capabilities**
- Potential for **exports**
- Import replacement and **supply chain opportunities** for local industry
- **Skills + technology** transfer

The **Vision** of creating a **Global Centre of Excellence for Hydrogen Heavy Vehicles** will be achieved through **implementation** of the following **Action Plan**.



# H2 Future Mobility Strategy - Action Plan



# Investment Attraction

# 1

**1.1 Promote** the region to attract **heavy vehicle + powertrain OEMs** and **suppliers** to establish in the following key areas:

- **Hydrogen Heavy Vehicle** assembly
- **Fuel cell** assembly and testing
- Hydrogen **tank manufacturing** and testing
- **Component manufacturing**
- Conversion of **LHD vehicles**
- **H2ICE** vehicle conversions
- heavy vehicle **maintenance** facilities.

**1.2 Facilitate** major enquiries, provide **tailored assistance** based on **individual project needs**.



## Heavy Vehicle Manufacturing

- Australian owned **Foton Mobility Distribution** is building a new heavy vehicle **manufacturing facility** in Nowra
- Facility to build **hydrogen** and **electric powered** trucks and buses
- Assemble and test **hydrogen fuel cells**
- Up to **100 new jobs** will be created
- **Tailored assistance** included site selection and planning pathway advice, **key local introductions**, training and future workforce planning advice and **supply chain** procurement opportunities

## Component Manufacturing

- **City Coast Services** now build the dealer optioned tipper body for the **Foton T5 EV** - Australia's best selling light electric truck
- **ICN NSW** are identifying other supply chain opportunities for local procurement outcomes



# Business & Industry Development

## 2

**2.1 Support new trials to showcase hydrogen powered technologies:**

- **H2 Future Mobility is Now** - provides details on **Heavy Vehicle Trials** deployed in the region

**2.2 Build a collaborative ecosystem through regular industry events that include:**

- **H2 Future Mobility Day** events (8)
- **H2 Training + Safety Day** events (3)
- **National Hydrogen Truck Show**

# Remondis Hydrogen Truck Trial

Fleet Operator: [Remondis](#)  
Commence: October 2023  
Vehicle OEM: [Hyzon](#)  
Model: [Hyzon Refuse Truck](#)  
Vehicles: 1  
Powertrain: Fuel Cell Electric  
Fuel Cell OEM: [Hyzon](#)  
Configuration: 6 x 4  
H2 Storage: 25kg  
Bin Lifts: 1,200/shift  
Range: 200kms  
FC Power: 110kw  
Tank Pressure: 350 bar  
HRS: [Coregas H2Station](#)  
Refuelling: 15 minutes  
GVM: 22.5 tonnes



# Skills Development

## 3

**3.1 Support TAFE NSW Shellharbour Automotive Workshops** in providing **electric vehicle training** for apprentices, an important **springboard** to **fuel cell technology** given the common **systems** and **components**.

**3.2 Promote TAFE NSW Microskills** to train workers the **skills** to safely operate **hydrogen vehicles** and equipment.

Developed with industry input from **BOC**, **Coregas** and **Foton Mobility Distribution**. Courses include:

- **Hydrogen Energy** Fundamentals
- Introduction to **Fuel Cell Electric Vehicles**
- **Refuelling** a Hydrogen Vehicle
- Foton FTH12 **Hydrogen City Bus**



# TAFE SHELLHARBOUR

- **Remondis Hydrogen Refuse Truck** has been in service since October 2023, the longest of any **FCEV heavy vehicle** in Australia
- **Vehicle** provides access to FCEV technology for students at **TAFE Shellharbour** that are undertaking **trade qualifications** in **electric vehicle** service, maintenance and repair
- This supports future demand for suitably qualified people from **fleet operators** who transition to **hydrogen powered heavy vehicles**



# Enabling Infrastructure

## 4

**4.1 Develop additional hydrogen refuelling capacity.** Coregas H2Station has daily capacity of 400kg. **Proposed refuellers** will increase this capacity to 2,700kg/day,

This **enabling infrastructure** will support **Australia's** largest deployment of FCEV and H2ICE **hydrogen powered** heavy vehicles.

**4.2 Support co-location of heavy vehicle capabilities** and key **support industries** where possible.





**Now Operational**  
**Daily capacity = 400kg**



## Future Opportunities

### Vehicle Incentives

**Financial incentives** to help **offset** the **higher total cost of ownership (TCO)** of adopting **hydrogen powered** zero emissions technologies are not considered feasible at this time due to the lack of **refuelling infrastructure** and **vehicles** to support **fleet scale adoption**.

### Electric Aviation

**Electric aviation** powered by **hydrogen** has enormous potential and shares many **synergies** with the **individual actions** articulated in this **H2 Future Mobility Strategy**. A **decision** will be made about its **inclusion** in this **Strategy** at some stage.



# Next Steps

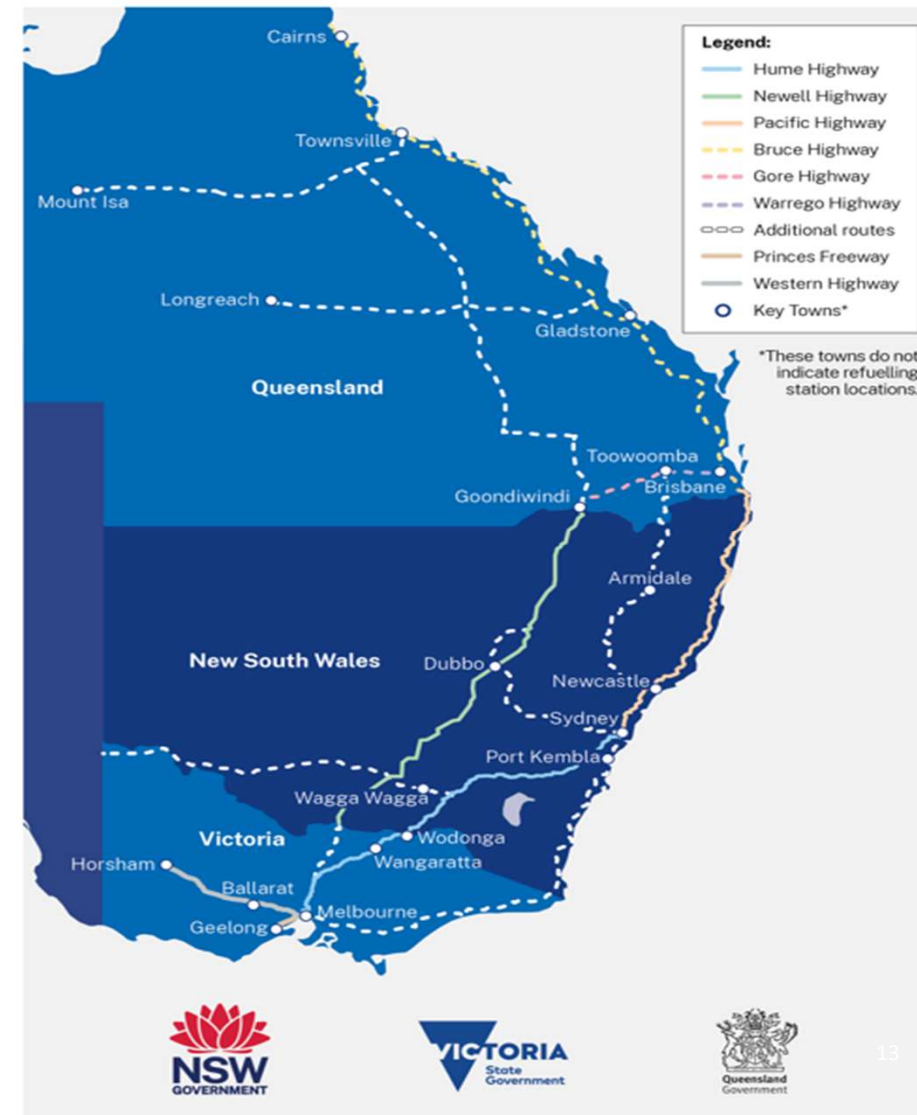
## Working Group

A working group will be established to provide **governance, guidance** and **strategic alignment** with existing government policies and programs.

## Funding

A total of **\$29 million** of **NSW Government funding** has already been committed to the **H2 Future Mobility Strategy** related projects. This includes the **Coregas H2Station (\$500,000)** and the **BOC Illawarra Hydrogen Technology Hub (\$28,500,000)** initiatives.

## East Coast Hydrogen Refuelling Network





# Contacts

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