

DECARB
HUB New South Wales
Decarbonisation
Innovation Hub

NSW Decarbonisation Innovation Hub

Tony Westmore Hub Manager



Land and Primary
Industries
Network
DECARB HUB



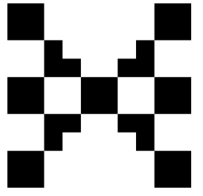
Electrification and
Energy Systems
Network
DECARB HUB



Power Fuels
including Hydrogen
Network
DECARB HUB

A nsw.gov.au Initiative

decarbhub.au



DECARB
HUB New South Wales
Decarbonisation
Innovation Hub

Our Vision

To support a mature and collaborative decarbonisation innovation community in NSW, by fostering the research, development, commercialisation and adoption of decarbonised technologies and services to reduce emissions to net zero by 2050 and provide economic benefits to NSW.



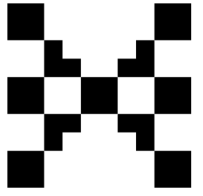
Land and Primary
Industries
Network
DECARB HUB



Electrification and
Energy Systems
Network
DECARB HUB



Power Fuels
including Hydrogen
Network
DECARB HUB



**DECARB
HUB**
New South Wales
Decarbonisation
Innovation Hub

Our Partners



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA



WESTERN SYDNEY
UNIVERSITY



UNIVERSITY
OF WOLLONGONG
AUSTRALIA



Department of
Primary Industries



CLIMATE**KIC**
Australia



THE UNIVERSITY OF
SYDNEY



Planning &
Environment



Southern Cross
University



Charles Sturt
University



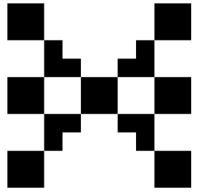
Land and Primary
Industries
Network
DECARB HUB



Electrification and
Energy Systems
Network
DECARB HUB



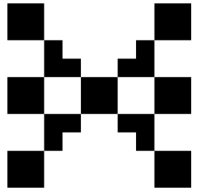
Power Fuels
including Hydrogen
Network
DECARB HUB



**DECARB
HUB**
New South Wales
Decarbonisation
Innovation Hub

Industry Engagement





**DECARB
HUB**
New South Wales
Decarbonisation
Innovation Hub

Hub Overview

- The Decarbonisation Innovation Hub supports the NSW Government's goal of **net zero emissions by 2050** and the recently updated objective to reduce emissions by **50% below 2005 levels by 2030**.
- **\$15m grant** from NSW Government over 9 years **matched by partners** as a leverage pool.
- Three strategic priority areas have been identified:
 1. **Electrification and Energy Systems** - because electrifying the energy system is key to enable renewable energy solutions.
 2. **Land and Primary Industries** – because the sector is a significant contributor to NSW's emissions.
 3. **Power Fuels including Hydrogen** – because replacing the current fossil fuels with new sustainable synthetic powerfuels is key to unlocking decarbonisation opportunities for many hard-to-abate sectors beyond 2030.

The hub is therefore structured around three networks.



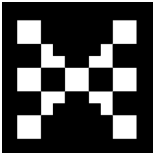
Land and Primary
Industries
Network
DECARB HUB



Electrification and
Energy Systems
Network
DECARB HUB



Power Fuels
including Hydrogen
Network
DECARB HUB



Hub Outputs Summary



Developing and understanding the state of play and levers of change



R&D projects, direct engagement with industry



Industry training, workforce development



De-risk deployment through pilots, demonstrations, innovation centres, rapid prototyping



Place-based activities to accelerate regional transformation



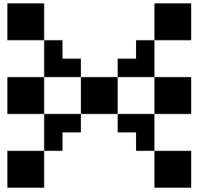
Low Emissions Research Commercialisation Fund (LERCF)



Knowledge dissemination, cross network projects



“Ops”, including: Connected grant application development. Planning, reporting, impact measurement



**DECARB
HUB**
New South Wales
Decarbonisation
Innovation Hub

Hub Key Staff

Hub CEO: Scientia Professor Deo Prasad AO FTSE (UNSW)

Interim COO: Christopher Lee (CEO Climate-KIC)

Hub Manager: Tony Westmore

1. Electrification and Energy Systems – EESN

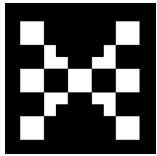
Co-Leads: Professor John Fletcher (UNSW) and Laureate Professor Behdad Moghtaderi (UON)

2. Land and Primary Industries – LPIN

Network Lead: Professor Benjamin Smith (WSU)

3. Power Fuels including Hydrogen – PFH2N

Network Lead: Scientia Professor Rose Amal AC FTSE (UNSW)



The 3-year strategy is underpinned by the workplans of the 3 networks, and the portfolio management delivered by the Hub

3-year strategy



Where are we going?

- Forward looking view anchored in the **Theory of change**
- Provides the foundations for the committed funding

Workplans



How are we getting there?

- Annual workplans
- Consistent across networks but not restrictive
- Activities and project detail nested under the 3-year strategy
- High level descriptions and scope with key attributes and information

Portfolio management



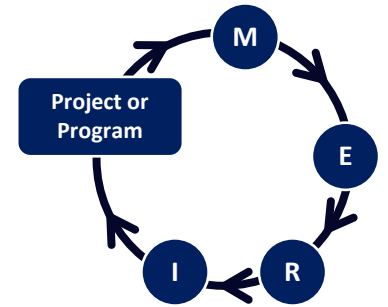
What is the portfolio of projects and capabilities and what are the cross-linkages?

- Supported by Exaptive as a platform, and other assets and actions
- Current information as the work progresses

MERI fwk & KPIs

Monitoring & Reporting

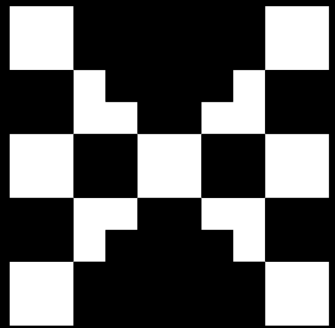
- Measuring progress on outcomes
- Aligned to NSW govt



Network initiatives and projects

The decarbonisation work happens here





DECARB HUB

New South Wales
Decarbonisation
Innovation Hub

A nsw.gov.au initiative

decarbhub.au

NSW Decarbonisation
Innovation Hub