



i-Hub newsletter

March 2020

2020 has kicked off!

2020 has kicked off with much activity for the Innovation Hub for Affordable Heating and Cooling (i-Hub) team.

With the formal announcement made in November by Energy Minister Angus Taylor of the three year \$18 million dollar project work has begun on our key initiatives.

Over the next two-plus years the Living Laboratories will be working to test and validate innovative technologies in real-life building applications. The building typologies to be targeted will be aged care, health care and education (schools) sectors. The objective is to quantify (i.e. analyse measureable data) and qualify (i.e. develop insights into reasons, motivations and opinions) the potential for innovative technologies and the integration of technologies in health care settings to transition to a net-zero energy/demand future.

The Integrated Design Studios (IDS) programs will develop a standardised design methodology through facilitated building design workshops where industry practitioners (consultants), academics and students will develop innovative energy efficiency and renewable energy design solutions for a variety of building types by collaborating with clients on project case studies. The integration of engineering and architectural design disciplines will be the main focus with the end goal being to advance renewables integration and other energy strategies to move towards zero energy buildings.

The Buildings to Grid Data Clearing House will deliver an open data digital platform for sharing data relating to the operation of HVAC&R and renewable energy equipment. The digital platform will host a range of software and building automation applications, creating an open data building energy management eco system, allowing building owners and service providers access energy data and facilitate new models for industry cooperation and innovation.

i-Hub projects underway

The first tranche of projects has commenced.

The Living Laboratories will be led by Queensland University of Technology and the University of Wollongong, and include:

- LLHC1 – Health Care Living Laboratories – Sector-wide engagement and impact
- LLHC2 – Health Care Living Laboratories – Warrigal Aged Care

- LLHC3 – Health Care Living Laboratories – Fernhill Residential Aged Care
- LLHC4 – Health Care Living Laboratories – Queensland Children’s Hospital
- LLS1 – Education Living Laboratories – Sector-wide engagement and impact
- LLS2 – Education Living Laboratories – Public school refurbishment and new build

The Data Clearing House will be led by CSIRO:

- DCH1 - CSIRO Senaps data platform demonstration
- DCH2 - Data Clearing House - Early Data Clearing House Development

Integrated Design Studios, led by the University of Melbourne:

- IDSKS - Integrated Design Studio – Cross-Program Knowledge Sharing Activity

Please click here to find out more information about these projects.



Meet the i-Hub Steering Committee



Tony Gleeson – Chair



Jorge Chapa – Head of Market Transformation, GBCA



Phil Cowling – Chief Sustainability Officer, Cromwell Property Group



Dr Nathan Groenhout – Principal, Global IQ



Kriston Symons – Group Leader Buildings, ARUP



Steven Humphries – Emerging Markets Leader, AEMO



Dr Troy Wilson – Data Scientist



Peter Haenke – Manager, Business Development and Transactions, ARENA

Save the date for coming i-Hub events

Discovering the affordable, sustainable path to heating and cooling

- I-Hub Summit I – June 18 in Brisbane

- i-Hub Summit II – December 10 in Sydney at Outlook 2020

Get involved

- Propose or participate in an i-Hub project:
 1. Provide a building design project suitable for the IDS facilitation process, or
 2. The development of a renewable energy/HVAC management software application for hosting on the data clearing house.
- Propose a technology that might be suitable for testing in a Living Laboratory
- Participate in an i-Hub knowledge-sharing event
- Participate in i-Hub forums designed to identify utilisation pathways for the i-Hub innovations.

Please email us or [click here](#) for more information.

Stay connected with the Innovation Hub



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