



JOINT MEDIA RELEASE

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New tech to drive energy efficiency gains in Australian homes

Australia's national science agency, CSIRO, and property data analytics company CoreLogic Australia are trialling a new artificial intelligence system to estimate energy efficiency for homes across Australia.

Understanding the energy efficiency of homes can help the industry and homeowners to improve energy performance and lower power bills, but before the trial, data on the energy efficiency of homes was limited or not readily accessible.

The pilot project combines CoreLogic's 40 years of comprehensive property data with CSIRO's RapidRate artificial intelligence model to produce an estimate of heating and cooling load, and an energy efficiency star rating for homes.

The insights from CSIRO's RapidRate will initially be made available to CoreLogic's core banking and finance customers, with plans to make it available to other market segments in the future.

CSIRO Chief Executive Dr Larry Marshall said the new AI system is another example of the practical solutions from science CSIRO has delivered to help Australians achieve net zero emissions by 2050.

"Improving the energy efficiency of homes right around the country can reduce emissions and translate to longer-term energy and cost savings on their energy bills," Dr Marshall said.

"Achieving net zero emissions by 2050 is one of Australia's greatest challenges, but collaborative science and technology holds the key to creating solutions that will get us there."

The Nationwide House Energy Rating Scheme (NatHERS) was initiated in 1993 to provide a standardised approach and regulatory framework on energy ratings for new residential homes, but the data is not easily accessible, and data on homes built before NatHERS is limited.

CoreLogic International Chief Executive Officer Lisa Claes said the revolutionary system had a multitude of potential economic, climate and societal benefits including supporting emissions reduction and aligning with pathways to net zero by 2050.

Ms Claes said, there was an urgent need to fill knowledge gaps around energy performance of existing property that would result in more efficient, sustainable and comfortable housing that cost less to run.

“It is a thrill to be at the vanguard of revolutionising energy efficiency with Australia’s national science agency, CSIRO, to use innovative technology and data, to develop a solution for one of this generation’s greatest challenges,” she said.

“Combining our considerable breadth and depth of knowledge and respective industry expertise gives us the power and the privilege to make a real and significant difference towards improving energy efficiency performance across the entire residential sector.”

[Learn more about RapidRate and the energy efficiency rating system.](#)

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About CoreLogic

CoreLogic Asia Pacific (CoreLogic) is a leading, independent provider of property data and analytics. We help people build better lives by providing rich, up-to-the-minute property insights that inform the very best property decisions. With an extensive breadth and depth of knowledge gathered over the last 30 years, we provide services across a wide range of industries, including Banking & Finance, Real Estate, Government, Insurance and Construction. Our diverse, innovative solutions help our clients identify and manage growth opportunities, improve performance and mitigate risk. We also operate consumer-facing portals - onthehouse.com.au, propertyvalue.com.au and propertyvalue.co.nz - providing important insights for people looking to buy or sell their home or investment property. We are a wholly owned subsidiary of CoreLogic, Inc – one of the largest data and analytics companies in the world with offices in Australia, New Zealand, the United States and the United Kingdom. For more information visit corelogic.com.au.

About CSIRO

As Australia’s national science agency and innovation catalyst, CSIRO solves the greatest challenges through innovative science and technology.

With 5,000 experts, state-of-the-art facilities, and a global collaborative research network, CSIRO brings together the best and brightest minds to deliver world-leading research.

CSIRO collaborates with industry, government, universities and research organisations to turn science into solutions for food security and quality; clean energy and resources; health and wellbeing; resilient and valuable environments; innovative industries; and a secure Australia and region.

CSIRO is unlocking a better future for everyone. Find out more at www.csiro.au

About NatHERS

The Nationwide House Energy Rating Scheme (NatHERS) provides energy ratings for new dwellings. NatHERS rates a home’s thermal shell on a scale from 1 to 10 stars. It requires a detailed assessment of the

building plans by a NatHERS assessor and is used to ensure new houses and apartments meet a minimum energy efficiency requirement of the National Construction Code.