



# Unlocking energy efficiency with white certificates and the Data Clearing House

The state-based white certificate schemes offer financial incentives for buildings to save energy and reduce peak demand. This is achieved by requiring electricity retailers to acquire and surrender energy saving certificates. In New South Wales (NSW) and Victoria, these certificates (representing saved energy) are tradable. This system ensures energy savings targets are achieved at the lowest cost.

## The challenge

Between 2009 and 2022, the NSW Energy Savings Scheme supported projects that are saving 48,000 gigawatt hours (GWh), and 23 megatonnes of greenhouse gas emissions – that's equivalent to the emissions produced by the NSW transport sector in 2020.

Unfortunately, not all energy saving technologies are eligible for generating certificates. Compliance with scheme rules can also be costly and uncertain. To earn the maximum number of certificates, from the widest range of possible activities, an Accredited Certificate Provider may need to visit your site, confirm any improvements that qualify for certificates, and set up a metering system to measure your energy savings.



## The solution

Connecting to CSIRO's Data Clearing House (DCH) may provide an easy solution to measure energy savings and overcome the administrative difficulties of complying with certificate creation rules.

The DCH is a cloud-based digital platform designed to house, manage, and extract valuable insights from smart building data. It allows for seamless data ingestion from relevant data sources. It hosts certificate calculation tools for seamless processing of the data, and it manages the record keeping functions for scheme compliance.

DCH alleviates the overhead of manual validation by leveraging digital infrastructure to connect and store building data, and to detect the impact of energy-saving improvements.

DCH aims to provide a low-cost, scheme-approved self-service method for generating certificates.

## The result

Accessing white certificate schemes, through the DCH, reduces the barriers-to-entry for earning these certificates and has the potential to open up the economic benefits of a wide range of new technologies, that have previously been excluded from the schemes.

This integration streamlines measurement and verification processes by leveraging the power of Industry 4.0 technology.

Our DCH certificate calculation solution aims to support NSW's energy savings targets – to save households and businesses that choose to implement energy savings projects an additional \$2.4 billion on their bills between 2022 and 2040.