



Dr Patrick Hartley

Research Director, Oil Gas & Fuels

Dr. Patrick Hartley is the research director of the Oil, Gas and Fuels research program within CSIRO's Energy Business Unit. The program comprises 85 research staff and students working on applied research projects which span the energy resources value chain, with a particular emphasis on the sustainable development of Australia's petroleum resources and on the associated challenges of large scale carbon dioxide storage. The multidisciplinary skill base of the program's scientists ranges from fundamental geosciences through to energy resource processing and conversion, and draws on further multidisciplinary expertise across CSIRO in materials science, production instrumentation and process modelling.

In 2018, he established CSIRO's Hydrogen Energy Systems Future Science Platform. This major initiative focusses on addressing research challenges which underpin the development of hydrogen energy value chains in Australia. During this time, he co-led the formulation of CSIRO's 'National Hydrogen Roadmap, and, with the Chief Scientist of Australia, the briefing paper 'Hydrogen for Australia's Future' which was presented to the Council of Australian Government's (COAG) Energy council in August 2018.

Patrick graduated with a PhD in Chemical Engineering from Imperial College, London in 1994, and was subsequently awarded a research fellowship from the Royal Society, London, which allowed him to take up full time research fellowship roles at the University of Melbourne from 1994 to 1998, when he joined CSIRO as a research scientist. Since then, he has led research teams working with national and international large corporations and SME's to develop new technologies for applications in drug delivery, energy storage, water treatment and petrochemical recovery. He has co-authored more than 90 peer reviewed publications almost all in collaboration with university and/or other research institution partners.

Patrick has occupied senior research management roles in CSIRO since 2006, and is a Graduate of the Australian Institute of Company Directors. He holds an Adjunct Professorship at RMIT University in Melbourne, Australia.