

## **RESEARCH & DEVELOPMENT ORGANISATIONS**

A number of research & development organisations operate within Australia. Collectively, their goals are to develop more efficient and effective prospecting, mining and utilisation of coal in Australia and overseas.

### **Cooperative Research Centre for Coal in Sustainable Development**

The Cooperative Research Centre for Coal in Sustainable Development (CCSD) was established under the Australian Commonwealth Government initiative to bring together researchers from industry, the universities, CSIRO to optimise the contribution of coal to a sustainable energy future.

CCSD's research is underpinned by a focus on the three dimensions of sustainability – economic, social and environmental. Research is conducted in six research programs; Economic, Social and Environmental Assessment, Current Power Generation, Transitional Power Generation, Future Scenarios and Technologies, Ironmaking, and By-Products and Waste. These programs are aligned to deliver outcomes that Inform Strategic Decisions, Improve Environmental Performance and Understand Coal Performance in current and emergent technologies.

CCSD brings together the majority of Australia's coal research skill base as well as experts in sustainability to provide services that include scientific reporting, techno-economic assessments, energy systems and life-cycle assessments and predictive modeling of coal performance with specialised coal characterization and analytical capabilities. The Centre through its communication program holds events such as workshops, seminars and colloquia and through its membership of international agencies offers unique linkage with the international research network on coal and energy issues.

Further information can be obtained from:

Mr. Frank van Schagen  
Chief Executive Officer  
CRC for Coal in Sustainable Development  
QCAT – Technology Transfer Centre  
Technology Court  
PULLENVALE QLD 4069

Tel: (07) 3871 4400

Fax: (07) 3871 4444

Email: [administration@ccsd.biz](mailto:administration@ccsd.biz)

Website: [www.ccsd.biz](http://www.ccsd.biz)

## **CSIRO Energy Technology Division**

CSIRO Energy Technology undertakes research across a broad range of areas. These include:

- Coal preparation;
- Advanced power generation;
- Low-emissions technologies for fossil use and efficient coal production;
- Renewable energy systems and potential use of hydrogen in the energy cycle;
- Distributed energy generation and energy storage; and
- Reducing the environmental consequences of energy use.

Further information can be obtained from:

David Brockway

Chief

CSIRO Energy Technology

PO Box 330

Newcastle NSW 2300

Telephone 61 2 4960 6045

Facsimile 61 2 4960 6054

Website: [www.det.csiro.au](http://www.det.csiro.au)

## **HRL Limited**

The HRL Limited group of companies specialises in providing services and high-end technology to the coal, power and manufacturing industries. It is widely regarded as a global expert in coal and biomass gasification as well as in the provision of ground-breaking approaches to greenhouse reduction and improved efficiency in power generation. This Australian owned technology group also markets electricity and briquettes from its power station and briquette production facility. It also delivers innovative design-

build-own-operate solutions to clients to meet their energy input (electricity and steam) needs.

### **HRL Technology Pty Ltd**

HRL Technology Pty Ltd - High Energy Solutions. Premium consulting and testing services that are vital to the coal, energy, engineering and minerals processing industries. It assists these industries to increase process efficiency, reduce operational costs and decrease environmental emissions. It is a world leader in developing and optimising high temperature and pressure processes that utilise fuel. It has established itself as an authority in coal technology and mineral processing and has over 30 years experience in power generation and low rank coal utilisation.

Further information can be obtained from:

HRL Limited  
677 Springvale Road  
MULGRAVE VIC 3170

Telephone 61 3 9565 9888

Facsimile 61 3 9565 9808

Website: [www.hrl.com.au](http://www.hrl.com.au)

### **ACIRL Pty Ltd**

ACIRL Pty Ltd is the leader in analytical coal testing. This includes quality control along the coal chain, certification of shipment quality, evaluation of coal utilisation potential, and marketing support. It also supply applied coal research, specialist training on coal preparation and utilisation in power stations and coke ovens.

Further information can be obtained from:

David Butel  
Chief Executive Officer  
ACIRL Pty Ltd  
PO Box 26  
MAITLAND NSW 2320

Telephone 61249328377

Facsimile 61249324069

Website: [www.acirl.com.au](http://www.acirl.com.au)

Email: [dbutel@acirl.com.au](mailto:dbutel@acirl.com.au)

## **Australian Coal Association Research Program**

Australian Coal Association Research Program's (ACARP) mission is to research, develop and demonstrate technologies that lead to the safe, sustainable production and utilisation of coal. ACARP supports those projects that enjoy industry-wide support and involvement. They fall within the following areas:

- Greenhouse Gas Mitigation
- Safety & Occupational Health
- Environment & Rehabilitation of Mined Land
- Community Concerns & Land Access
- Cost of Production
- Technical Support for Marketing Australian Coals

Australian black coal producers contribute to a program of research that is conducted for the benefit of the coal mining industry. Coal producers have committed to pay 5 cents per tonne to fund ACARP.

Further information can be obtained from:

ACARP

1st Floor

167 Eagle Street

BRISBANE QLD 4000

Telephone 61 7 3229 7661

Facsimile 61 7 3229 0061

Website: [www.acarp.com.au](http://www.acarp.com.au)

## **Geoscience Australia**

Geoscience Australia (GA) is Australia's national agency for geoscience research and geospatial information within the Department of Industry, Tourism and Resources. GA's role is to enhance the global attractiveness of Australia's offshore and onshore exploration investment opportunities, improve resource management and environmental protection and build safer communities and transportation. GA operates in the areas of minerals and petroleum exploration, promotion and technical advice, marine zone geoscience, geohazards and geomagnetism information and spatial data including national mapping.

The Mineral Resources and Advice Project within GA contributes to enhancing the global attractiveness of Australia's exploration opportunities

through increased knowledge of identified mineral resources; and sustainable development through improved resource management based on effective use of geoscientific information in decisions concerning resource access and land use.

Further information can be obtained from:

Geoscience Australia  
GPO Box 378  
CANBERRA ACT 2601

Telephone 61 2 6249 9111  
Facsimile 61 2 6249 9999

Website: [www.ga.gov.au](http://www.ga.gov.au)