

# International Energy Agency Energy Technology Systems Analysis Workshop



9-13 December 2019

CSIRO Energy Centre

10 Murray Dwyer Circuit, Mayfield West NSW 2304

## Visitor Information

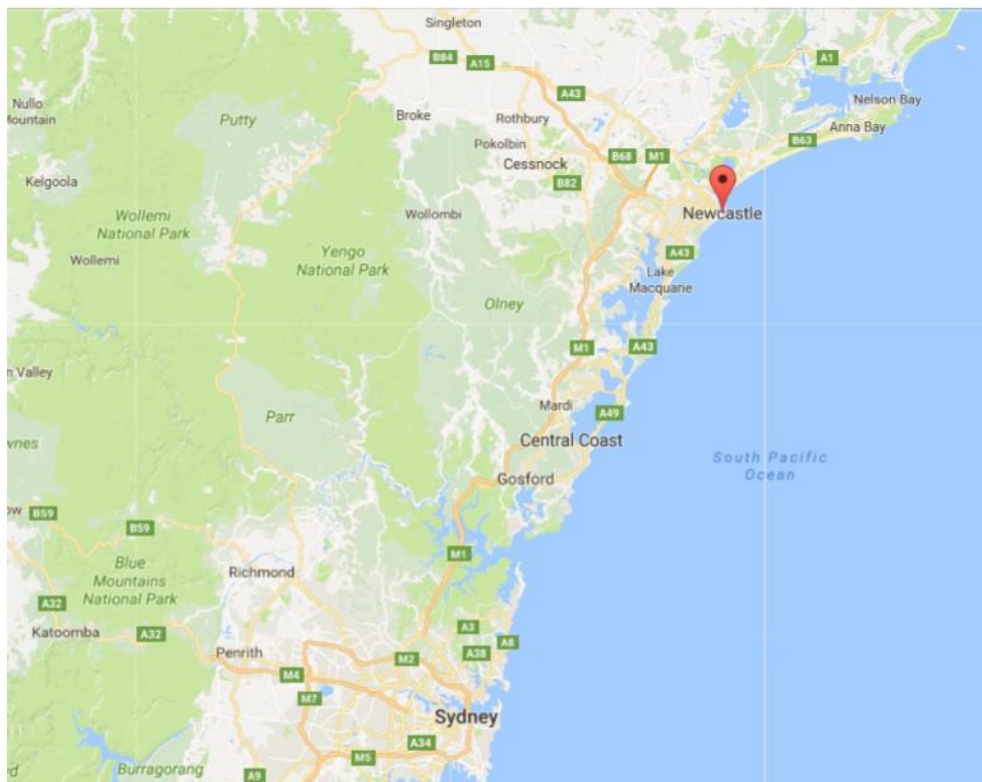
### Newcastle

Newcastle is a cosmopolitan coastal city with an estimated residential population of 162,766. It is quietly reinventing itself from a steel and coal port to a vibrant, creative and thriving industrial city. It is bordered by a stunning coastline with beautiful beaches and is located at the heart of the Hunter Valley.

Newcastle's attractions include historic sites, amazing beaches, and the surrounding regions of Lake Macquarie, Port Stephens and the world class Hunter Valley wine region. Newcastle is Australia's eighth largest city and is located 160km north of Sydney.

<http://www.visitnewcastle.com.au/>

<http://www.newcastlenow.org.au/>



## CSIRO Energy

CSIRO, the Commonwealth Scientific and Industrial Research Organisation, is Australia's national science agency and one of the largest and most diverse research agencies in the world.

The CSIRO Energy Centre provides state of the art research facilities on a 5-hectare site within an Eco-Industrial Park called "Steel River" at Newcastle, New South Wales, Australia. The research complex demonstrates unique, leading edge, commercially practical examples of building energy demand reduction and environmentally conscious realistic energy supply options.

The Centre provides a focal point in Australia for energy research excellence, particularly in the fields of:

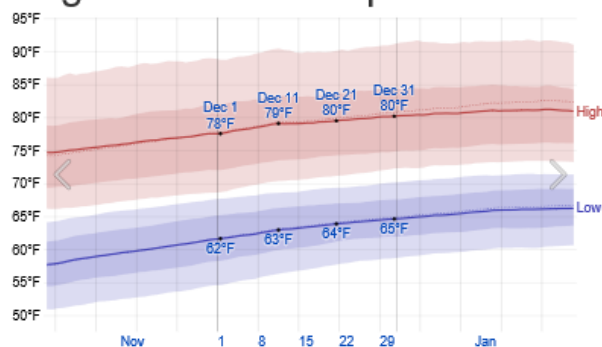
- Sustainable energy, including energy storage and renewable energy;
- Environmental impacts of energy, particularly those associated with greenhouse gas emissions; and
- Cost competitive and environmentally acceptable fossil fuel research and development.

## Practical Information

### Weather

In Newcastle, December at the start of summer and is characterised by gradually rising daily high temperatures, with daily highs of around 25-27°C (66-81°F) over the course of the month, and rarely exceeding 33°C (91°F) or dropping below 20°C (69°F).

### Average High and Low Temperature in December



The daily average high (red line) and low (blue line) temperature, with 25th to 75th and 10th to 90th percentile bands. The thin dotted lines are the corresponding average perceived temperatures.

<https://weatherspark.com/m/144563/12/Average-Weather-in-December-in-Newcastle-Australia>

## Visas

For information on Australian entry requirements, please visit the Australian Government Immigration and Visas page at <http://www.australia.gov.au/information-and-services/immigration-and-visas>. Other than New Zealand citizens, all foreign nationals will need some type of visa, although many can be issued on the web. To choose the correct visa for you, please use the Visa Finder option at the above link.

If you need a visa letter for Australia, the CSIRO will issue you an official invitation letter to support your application. If you want a letter, please request it by email to Jane Sherman on [jane.sherman@csiro.au](mailto:jane.sherman@csiro.au) with **a scan of the main information page of your passport** and the information outlined below.

In addition to a **copy of the data page of your passport**, please provide the following:

Title (Dr, Mr, Ms, etc)	
Family name	
Other name(s)	
Passport number	
Date of birth	
Nationality	
Institution	
Department	
Street address	
City, postal code	
Country	
Telephone number	
Email	

## Airports

The nearest airport is Newcastle Airport. Alternatively, you can fly into Sydney Airport and travel to Newcastle by road or rail.

**Newcastle Airport** (NTL) is a regional airport and is located 30 km north of Newcastle city centre. It is serviced by five domestic airlines with connections to and from international airports in Sydney, Brisbane and Melbourne. <http://www.newcastleairport.com.au/>

**Sydney Airport** (SYD) is an international airport located approximately 170km south of Newcastle. It is serviced by most major international airlines. <https://www.sydneyairport.com.au/>

## Transportation from Airports

### Newcastle Airport to Newcastle city centre

#### Shuttles

These services must be booked. A deposit may be required.

**Newcastle Hire Cars:** <https://newcastlehirecars.com.au/>

**Newcastle Limousines:** <http://www.newcastlelimo.com.au/airport-transfers.html>

**Foggs Shuttle:** <https://www.foggsshuttle.com.au/>

**Newcastle Connections:** <https://newcastleconnections.com.au/>

#### Taxi

Newcastle Airport's taxi rank is adjacent to the departures end of the terminal. Newcastle Taxis can be contacted directly, free-of-charge, on the dedicated taxi phone located in the arrivals end of the terminal. For bookings call: 133 300.

#### Rideshare services

Uber, GoCatch and DiDi operate from Newcastle Airport. You can book a service through the relevant app:

<https://www.uber.com/au/en/ride/>,  
<https://www.gocatch.com/passenger/>,  
<https://www.didiglobal.com/au/rider.html>.

There is a dedicated pick up area for rideshare services in the public pick-up zone out the front of the arrivals end of the terminal.

#### Rental car

Car rental services at Newcastle Airport are provided by Avis, Budget, Europcar, Hertz, Enterprise and Thrifty. The car rental desks are located at the arrivals end of the terminal.

#### Bus

Port Stephens Coaches operate a public bus service from Newcastle Airport to Newcastle Transport Interchange up to 11 times a day. Port Stephens buses accept Opal transport cards (see information under 'Public transportation' in 'Getting from your hotel to the venue' section below). See below for timetable information:

Routes 130 & 131 from/to Newcastle Airport: [http://www.pcoaches.com.au/Timetables](http://www.p coaches.com.au/Timetables)

### Sydney Airport to Newcastle city centre

#### Shuttles

These services must be booked. A deposit may be required.

**Newcastle Hire Cars:** <https://newcastlehirecars.com.au/>

**Newcastle Limousines:** <http://www.newcastlelimo.com.au/airport-transfers.html>

**Foggs Shuttle:** <https://www.foggsshuttle.com.au/>

**Newcastle Connections:** <https://newcastleconnections.com.au/>

#### Rail

Sydney Airport is serviced by Airport Link with trains departing approximately every 10 minutes from the **International Terminal** and **Domestic Terminal** stations. To join the intercity service to Newcastle you will need to leave the Airport Link train at **Central** station to join the **Central Coast & Newcastle Line** service to **Newcastle Interchange**. Trains depart Central to Newcastle Interchange approximately every 30 minutes. The train terminates at Newcastle Interchange station and connects with Newcastle Light Rail and buses for transport into the Newcastle CBD. Total journey time is approximately 3.5 hours.

<https://transportnsw.info/#/>

#### Rental car

Car rental services at Sydney Airport are provided by Avis, Budget, Europcar, Hertz, Enterprise and Thrifty. The car rental desks are located on the arrivals level of the terminal.

#### Driving

In Australia, driving is on the left hand side of the road. If you are an international visitor, you are able to drive in Australia with your foreign licence so long as that licence is valid and is in English. If your licence is not in English, you will need to attain an International Drivers Permit (IDP) from your home country to use in Australia. If your foreign licence does not have a photo, carry formal photo identification with you such as a passport.

<http://www.rms.nsw.gov.au/roads/licence/visiting-nsw.html>

<http://www.rms.nsw.gov.au/roads/licence/documents-forms.html#RoadUsers'Handbook>

<https://www.racq.com.au/cars-and-driving/safety-on-the-road/driving-in-australia>

### Directions from Newcastle Airport to Newcastle city centre

- Depart Newcastle Airport, 1 Williamtown Dr
- Follow Williamtown Dr to Nelson Bay Rd/B63 (3 min; 1.1 km)
- Follow B63 and A43 to Hunter St in Newcastle West (24 min; 24.0 km)
- Continue on Hunter St. Drive to Scott St in Newcastle (5 min; 2.4 km)
- Arrive Scott St near Newcastle Station

### Directions from Sydney Airport to Newcastle city centre (tolls apply)

- Take Airport Dr and Qantas Dr to M1 (7 min, 4.6 km)
- Follow M1 and M2 to Epping Rd in North Ryde. Take the Epping Rd exit from M2 (19 min, 22.0 km)
- Take A3 and Pacific Hwy/A1 to M1 in Wahroonga (19 min, 12.4 km)
- Follow M1 to Newcastle Link Rd/A15 in Cameron Park (1 h 13 min, 118 km)
- Continue on A15. Drive to King St in Newcastle (26 min, 17.9 km)

### Directions from Newcastle city centre to CSIRO Newcastle

- Take Hunter St to Stewart Ave/A43 in Newcastle West (6 min, 2.3 km)
- Follow A43 to Steel River Blvd in Mayfield West (9 min, 6.8 km)
- Drive to Murray Dwyer Circuit (1 min, 450 m)
- Arrive CSIRO - Newcastle Site, 10 Murray Dwyer Circuit, Mayfield West, NSW 2304

## Accommodation

There is a wide array of accommodation options within Newcastle. We recommend two hotels, *Noah's on the Beach* and the *Novotel Newcastle Beach*. Both hotels are located in the Newcastle city centre and are located a short distance apart (a 5 minute walk). Please refer to the information below for rates and booking information:

#### **Noah's on the Beach**

Address: Corner Shortland Esplanade & Zaara Street, Newcastle  
Telephone: +61 2 4929 5181  
Email: [reservations@noahsonthebeach.com.au](mailto:reservations@noahsonthebeach.com.au)  
Web: <http://www.noahsonthebeach.com.au/>

#### **Novotel Newcastle Beach**

Address: 5 King Street, Newcastle  
Telephone: +61 2 4032 3700 (ask for in house reservations)  
Email: [H8771@accor.com](mailto:H8771@accor.com)  
Web: <http://www.novotelnewcastlebeach.com.au/>

For help with hotel bookings please contact Jane Sherman on +61 2 4960 6138 or [jane.sherman@csiro.au](mailto:jane.sherman@csiro.au)

## Getting from your hotel to the venue

### Dedicated shuttle service

We will be running a bus each morning departing from Noah's on the Beach to CSIRO Energy Centre with a return service at the end of the day. The bus will depart each morning approximately 30 minutes before the first session on that day. Please ensure you indicate when registering if you would like to use this service. There is no cost for this service.

### Driving to venue

Please see directions above in Driving section.

## Public Transportation

### Opal Transport Smartcards

Opal cards are smartcard tickets that you keep, reload and reuse to pay for travel on public transport. Opal cards can be used on train, bus, ferry and light rail services in Sydney, the Blue Mountains, Central Coast, Newcastle, Hunter, Illawarra and Southern Highlands. Cards can be purchased from train stations, most newsagents and several petrol stations. Single fare paper Opal tickets are available from train stations for single journeys. Single fare paper tickets are not able to be reloaded. For information on Opal transport cards please visit <https://transportnsw.info/tickets-opal/opal/best-ways-for-visitors-to-pay>. Download the Opal travel app from <https://transportnsw.info/apps/opal-travel>.

### Newcastle city to venue

Newcastle Buses service route 11 Charlestown service, runs approximately every 15 minutes in peak time from Newcastle city centre to Maitland Road, Mayfield West. Journey times are as per below:

#### From Noah's on the Beach and Novotel Newcastle Beach:

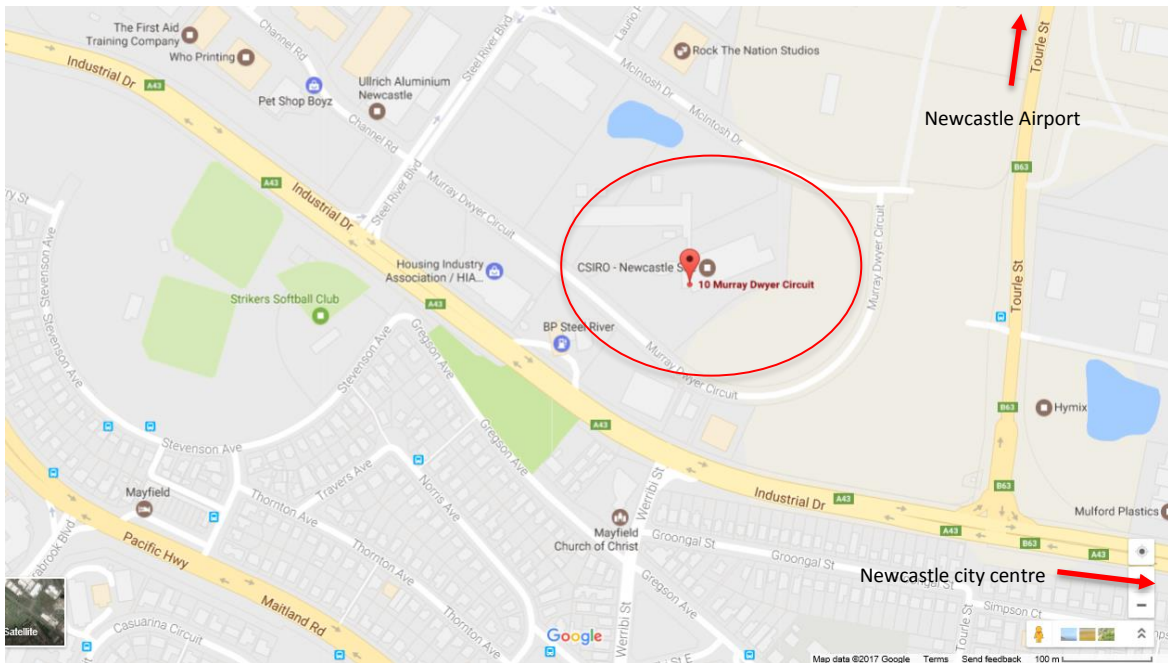
Walk approximately 6 minutes from hotel to bus stop on Watt Street at Customs House (stop ID 230018). Take bus service route 11 Charlestown service to Maitland Road, after Stedman Street, Mayfield West (stop ID 230463) (approximately 30 minutes). Continue to walk along Maitland Road to traffic lights and cross right into Werribi Street. Cross lights again across Werribi Street. Continue along Werribi Street to Industrial Drive traffic lights. Cross Industrial Drive at lights and turn left. Continue along Industrial Drive to the BP Service Station on right and walk through service station and cross Murray Dwyer Circuit to CSIRO, 10 Murray Dwyer Circuit, Mayfield West (approximately 18 minutes). Total journey time approximately 50 minutes.



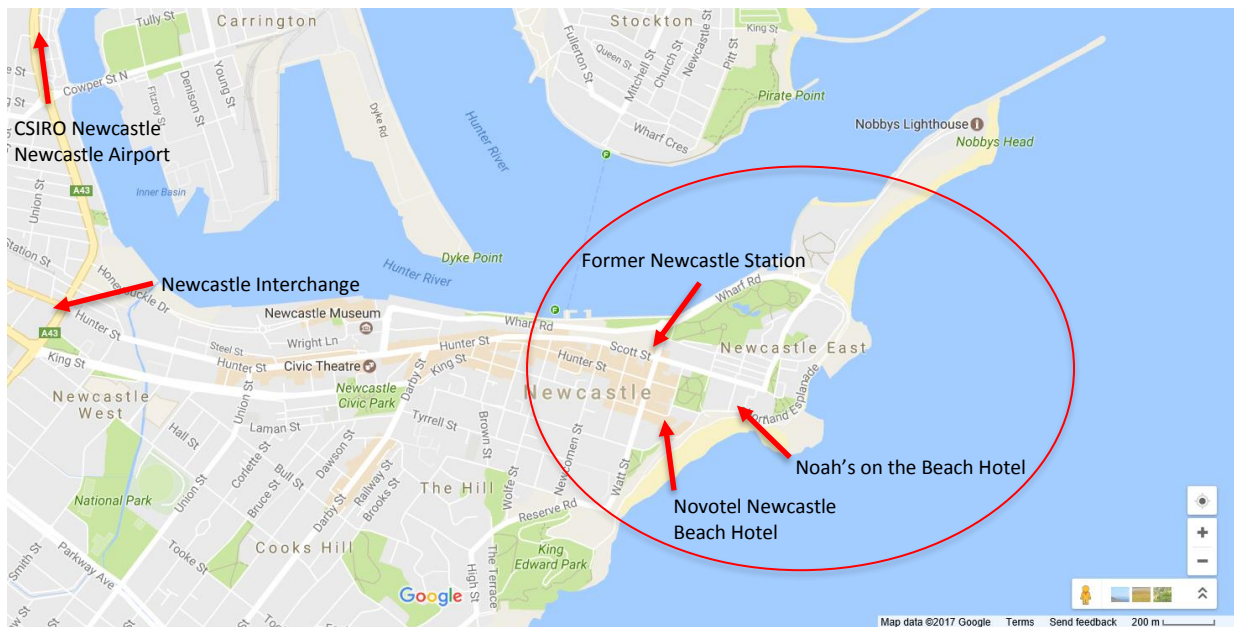
## Venue

CSIRO Energy Centre is located at 10 Murray Dwyer Circuit, Mayfield West.

Web page <https://www.csiro.au/en/Locations/NSW/Newcastle>



## Newcastle city centre and hotel locations



## Contact Information

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