



World Renewable Energy Congress XXI

**WREC2022**

**MU** **Murdoch University**



# Renewable Energy

**A Pathway to Economic Recovery and Climate Change Mitigation**

**4 – 9 December 2022**

**Murdoch University  
Western Australia**

Conference Chair:  
**Prof. Ali Sayigh, DG WREN**

Vice-Chair:  
**Dr. Martin Anda, Murdoch University**



**WiseEarth**

**MU** **Murdoch University**

**Harry Butler Institute**  
MURDOCH UNIVERSITY

**BUSINESS  
EVENTS  
PERTH**

 **DevelopmentWA**

**BLUE ECONOMY**  
COOPERATIVE RESEARCH CENTRE



Government of **Western Australia**  
Department of **Water and Environmental Regulation**



# WREC2022

## Host venue

The conference will be hosted by Murdoch University situated in the southern suburbs of Perth, Western Australia, only 12 minutes by train from the city and a short bus ride from the popular tourist destination of Fremantle. Perth itself is a vibrant and energetic city set on the banks of the spectacular Swan River. It is Australia's sunniest capital city and the fastest growing urban centre, offering cultural diversity and sophistication combined with a relaxed and friendly vibe.

## Publication

All papers submitted by the appointed deadline, and in the correct format, will be reviewed by the academic review board. The best 40 papers will be selected and sent for review to a high ranking journal for publication and the remaining papers will be published in a book of Proceedings by Springer Nature.

*Front cover image and above image courtesy ITP Energy*

## Features

- › Pre-conference sessions presented by specialists in two topical fields
- › Common sessions for keynote and invited speakers
- › Parallel sessions
- › Workshops focussed on technology and policy.
- › Field trips – a choice of free visits guided by experts in the area of biomass and bioenergy, geothermal and wave energy, energy storage, and green buildings
- › Technical tour – a choice of technical tours at a nominal cost to facilities in specific fields.
- › Social tour – a two-day social tour will depart after the conference to Western Australia's south west to take in not only the region's extraordinary natural beauty and biodiversity but will include a visit(s) associated with the theme from the past few days.
- › Networking and social functions – a welcome reception and early registration on the first evening, a conference cruise dinner at nominal cost on the Swan River, catered events each evening.

## For further information

**Conference co-manager:**  
**Dr David Goodfield**  
Environmental Technology Centre  
Murdoch University  
South Street, Murdoch  
Western Australia 6150  
D.Goodfield@murdoch.edu.au  
Phone +618 9360 7310  
Mob +61 437 282 209

**Conference co-manager:**  
**Dr Kuruvilla Mathew**  
Environmental Technology Centre  
Murdoch University  
South Street, Murdoch  
Western Australia 6150  
K.Mathew@murdoch.edu.au  
Phone +618 9360 2896  
Mob +61 480 221 397  
After hours: +618 9337 2960

## Topics

### ECONOMIC RECOVERY

- Carbon neutral economy
- Economics of renewable energy
- Manufacturing issues and emissions trading
- Renewable energy for sustainable development
- Renewable energy integration, water and energy nexus
- Climate change and environmental issues

### THE BUILT ENVIRONMENT

- Bioclimatic architecture
- Decarbonising cities and regions
- Low energy architecture
- Smart cities and smart grids
- Zero carbon urban design
- Energy storage and batteries

### TRANSPORT AND THE HYDROGEN ECONOMY

- Electric vehicles
- Renewable energy and transport
- Hydrogen and energy storage
- Green steel
- Green ammonia
- The hydrogen highway

### POLICY ISSUES

- Governance for low carbon communities and infrastructure
- Regulatory and policy issues
- Renewable Energy to achieve the Sustainable Development Goals
- Remote area power supply
- Integration of renewable energy/distributed energy resources in power grids
- Energy for future Electricity networks

### TECHNOLOGY

- Biofuels and energy from waste
- Energy from biomass
- Geothermal energy
- Photovoltaic technologies
- Rooftop solar
- Wind energy
- Wave, tidal and ocean
- Solar thermal

[www.wrec2022.com](http://www.wrec2022.com)