

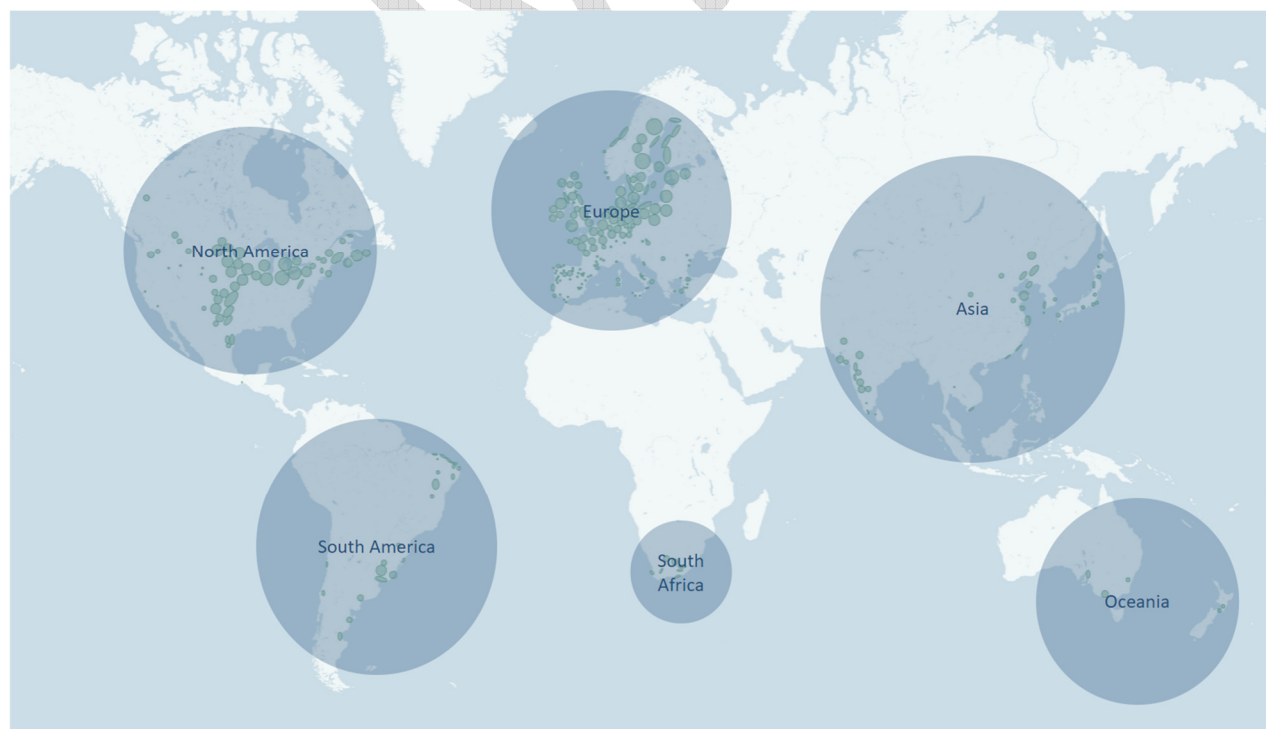
Cumul IREC

January – December 2021

Long term reference period: January-December 2011-2020

OCEANIA

AUSTRALIA, NEW-ZEALAND

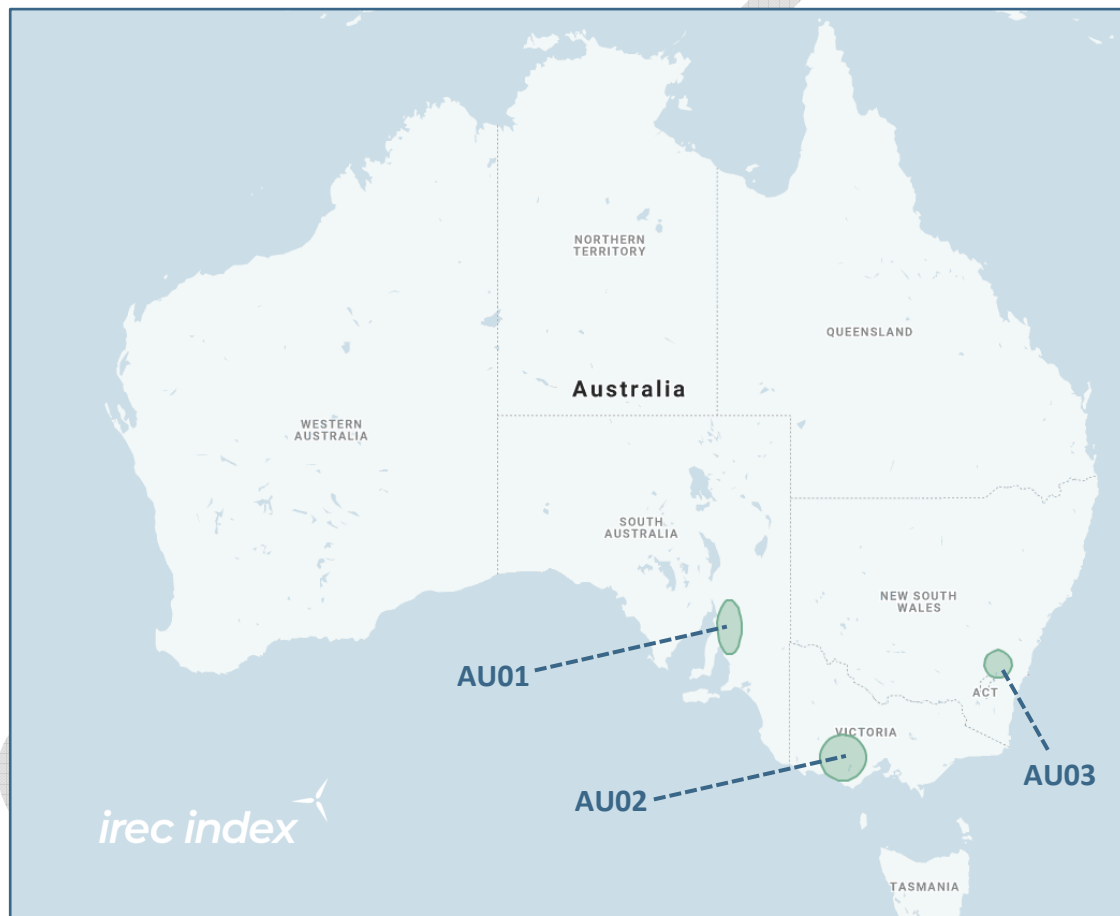


Cumul IREC

January – December 2021

Long term reference period: January-December 2011-2020

Country: **Australia**
 Issued in: January 2022
 Issued for: Company
 Contact: client@company.com



ID	Designation	Cumul IREC	Range
AU01	North Adelaide	97.5 %	97.0 % - 97.5 %
AU02	South West Victoria	103.5 %	103.5 % - 104.0 %
AU03	North Canberra	101.5 %	101.5 % - 101.5 %

Before using IREC Index, did you make sure that...

- + Your wind farm is inside the predefined region?
- + Your production dataset is adjusted to 100% availability?
- + Your production target reflects your actual production capacity?

FAQ

- + How to interpret Cumul IREC Index?
- + Why is a range provided?
- + How to switch long-term reference periods?

See last page for answers

Cumul IREC

January – December 2021

Long term reference period: January-December 2011-2020

Country: **New Zealand**
 Issued in: January 2022
 Issued for: Company
 Contact: client@company.com



ID	Designation	Cumul IREC	Range
NZ01	Palmerston North	95.5 %	95.0 % - 96.5 %
NZ02	Wellington	102.0 %	101.5 % - 102.5 %

Before using IREC Index, did you make sure that...

- + Your wind farm is inside the predefined region?
- + Your production dataset is adjusted to 100% availability?
- + Your production target reflects your actual production capacity?

FAQ

- + How to interpret Cumul IREC Index?
- + Why is a range provided?
- + How to switch long-term reference periods?

See last page for answers

Before using IREC Index, did you make sure of the following?

✓ **Is your wind farm inside the predefined region?**

Use the dedicated tool on IREC Index website to make sure and ask for a customized index if not.

✓ **Are your production data adjusted to 100% availability (Ideal production)?**

Wind energy indexes reflect the wind resource that can be harnessed by a wind farm with no availability issues. That is why the production output should be corrected from production losses encountered by the wind farm before being compared to indexes. All causes of downtimes, except for lack of wind should be taken into account. Curtailment losses should also be accounted for.

✓ **Is your target reflecting the actual production capacity of your wind farm?**

An operational P50 established post-construction should be considered as the target. A budget based on the pre-construction P50 (theoretical assessment) might not be representative of the actual production capacity of the wind farm.

How to interpret Cumul IREC indexes?

These indexes provide the ratio between the wind energy exploitable over the year-to-date period compared to the same period over the long-term. For example, in the region considered:

- ✓ A Cumul IREC of 100% for the period January to June means that the production should be similar to what can be expected on a long-term average for this semester.
- ✓ A Cumul IREC of 95% for the period January to June means that the production expected for the wind farm should be 5% below what can be expected on a long-term average for this semester.
- ✓ By the end of the year, the January to December index provides the energy index of the entire year. A January-to-December index > 100% means that production expected for the wind farm should be higher than the long-term average one (i.e. higher than the operational P50, once availability assumptions are comparable).

Why is a range provided?

Within a region considered homogeneous in terms of wind regime, the amplitude of variation of production can differ from one farm to another due to its specific characteristics (turbine type, exposure level...).

Providing a range allows to cover the major part of indexes that can be associated to different types of wind farms within the same region. The range can be exceeded in some specific cases (unusual wind farm exposure and/or turbine type in the region).

Considerations on the long-term reference period and how to switch to another one

Indexes are provided using a fixed long-term reference period (2011-2020) in order to ensure the continuity of the database from one year to another. An adjustment of the values to consider another reference period can be done as follows:

$$\text{Index Year 2020}_{\text{new ref period}} = \text{Index Year 2020}_{\text{ref 2011-2020}} \times \text{Ratio (Energy Index 2011-2020/Energy Index new ref period)}$$

Learn more about how to make the best use of indexes by attending [Windex training sessions](#)

More information about Windex at: <https://www.eoltech.fr/en/trainings>