

Lightning Services

Early Warning Network's Lightning Services help keep your operations, assets and people safe from approaching thunderstorms with accurate tracking, analysing and reporting.



About Us

When it comes to protecting your operations, assets, and most importantly, your people, staying ahead of dangerous weather is crucial.

Early Warning Network (EWN) were the first business in Australia to issue severe weather warnings direct to customers over 15 years ago, and we continue to lead the way in delivering comprehensive weather and hazard services for companies and organisations throughout Australia and New Zealand.

Our technology has saved our clients millions of dollars across industries like:

- Outdoor, Sports & Entertainment Venues
- Major Insurance
- Local, State & Federal Government
- Rail & Freight
- Major Retail

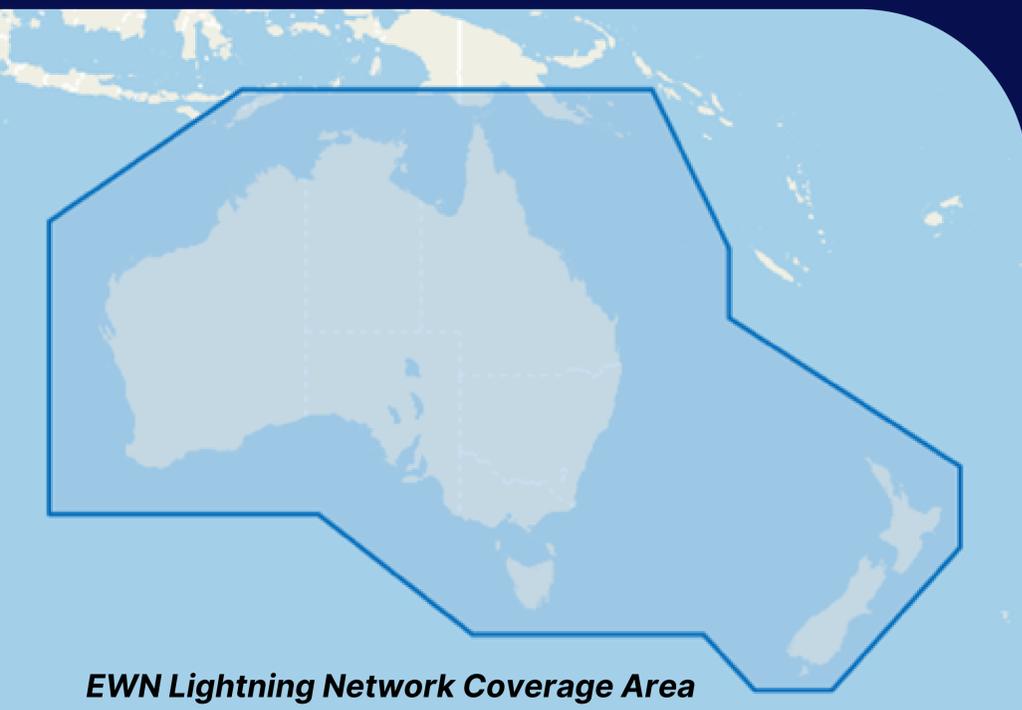
EWN Lightning Network

The EWN Lightning Network provides a truly accurate and clear picture of lightning activity across Australia and NZ, utilising a series of Long-Range Detection points backed by our team of industry-leading Meteorologists.

Individual lightning discharges are captured in near real-time by a central processor that aggregates sensor data from the entire network. Using electronics sensitive to the Very Low Frequency (VLF) band, each sensor can detect lightning discharges with accuracy of up to 2km, which helps our clients improve operational efficiency, provide accurate warnings for employee safety, and minimise costly downtime.

Network Specifications

- Historical lightning data available back to 2019
- Unlimited strikes available in a search
- Lightning Data is updated every minute
- Detection Rate Accuracy of 90%
- 500m location accuracy
- Lightning Detected Includes:
 - Cloud to Ground (CG) Positive Lightning
 - Cloud to Ground (CG) Negative Lightning
 - Cloud to Cloud Lightning (CC)



EWN Lightning Network Coverage Area



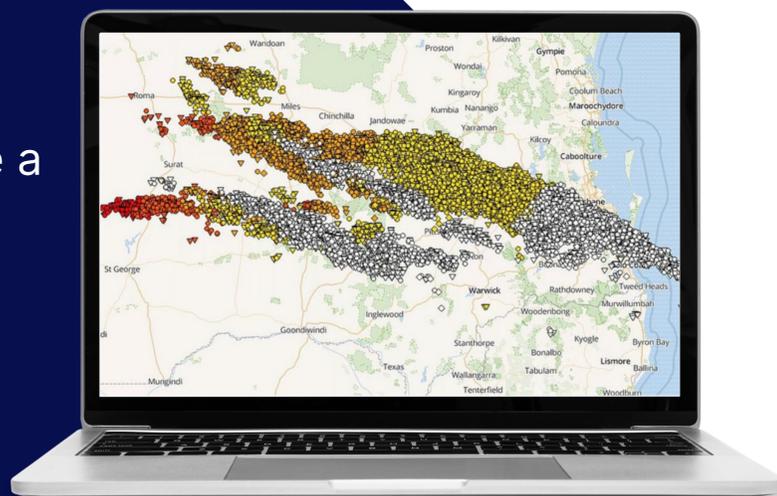
EWN Lightning Alerts

EWN Lightning Alerts allows your business to create a customised Lightning Alert Zone around any of your asset locations, and alert users to approaching lightning activity.

Receive Lightning Alerts when there is activity detected within your customised alert zone's radius.

With the ability to add as many of your asset locations as required, you can also create multiple zones around any of those assets, and proactively action staff and patron safety procedures for each zone when alerts are received.

One of the most accurate systems covering Australia, our alerts help improve your operational efficiency while protecting your customers & patrons from lightning, satisfy compulsory OH&S regulations and your duty of care for your people in exposed environments.



Lightning Icon Key Colour Code

			
Negative Ground Stroke	Positive Ground Stroke	Cloud to Cloud Stroke	Newest > Oldest 0 min > 30 min

Backed by multiple data sources

Our Meteorologists check system data received from 13 external sources including:

- Official Bureau of Meteorology (BoM) warnings
- EWN internal forecasting
- Australian Tsunami Warning Centre
- Fire authorities from each State and Territory

Example: Alert Radius: 30km, closest strike: 3km
Number of strikes in radius: 32
Last strike occurred at: 30/03/22 01:21 AEDT
Lightning Trend: Increasing



Why Choose EWN Lightning Alerts?

- 24/7 operation with customisation of alerts tailored to your hours of operation
- Receive accurate alerts when there is activity detected within your alert zone's radius, eliminating alerts with no relevance to your operations
- Create multiple zones around any asset and action staff safety procedures for each - most popular radii are 40km, 20km & 5km
- Alerts are available via SMS, email and/or API feed (in both JSON & CSV format), as well as satellite phones in remote areas with limited or no mobile phone reception.
- 30 minute embargo on zones, meaning no additional alerts for zone activity will be received until embargo has ended, or activity reaches the next zone
- All alerts are archived and sent for post-incident audit and analysis where necessary
- Recipients will receive free severe weather alerts when you sign up to Lightning Alerts
- Australian-owned and operated



EWN Alerts Include:

Severe Thunderstorm Warnings (incl possible hail)

Severe Weather warnings (incl damaging winds and heavy rainfall)

Flood Watches

Tropical Cyclone Watches & Warnings

Tsunami Warnings

Fire Weather Warnings

Bushfire Watch & Act

Bushfire Emergency Warnings

If you'd like any further information on our lightning products or any other of the Early Warning Network products, please visit our website at earlywarningnetwork.com.au or call **02 6674 5717**

