

Concerned about Electromagnetic Radiation?

What is Electromagnetic Radiation?

Electromagnetic Radiation (EMR) is produced from electric or magnetic fields. Electric fields are caused by differences in voltage, whereas magnetic fields are caused by the flow of electric current. The effect of EMR on the human body is the creation of microcurrents. These microcurrent are far below the level that causes electric shock, and the result of these currents is a minor increase in temperature in the body.

What are some common sources of EMR?

Humans are exposed to low level EMR every day. This can be from household appliances like kettles, toasters, and even fridges, all of which produce EMR from electric fields. Magnetic field EMR in the home is caused by items such as microwaves, hair dryers, electric razors and more.

What are the limits of EMR exposure?

There are two standard levels for EMR exposure depending on the location of the reading and whether the exposure is considered 'public' or 'occupational'. These standards are the level at which exposure is confirmed to still be safe, above these standards are not necessarily unsafe, but incur an increasing risk to health.

EMR exposure standards:

The public exposure standards for EMR are as follows:

EMR Standards	Electric fields (V/m)	Magnetic fields (μ T)
Public Exposure	5000	100
Occupational Exposure	10000	500

What EMR exposure can be expected from Wind Farms?

Wind Farms produce several forms of EMR, it is expected the greatest effect to the public will be due to the electric field caused by the High Voltage Overhead Transmission Lines.

Standing directly below a transmission line (considered an occupational position) results in an electric field exposure of just under 8,000 V/m. Moving further away from the line, by as little as 50-100m, the electric field strength drops to well below 5000 V/m.

Should we be concerned?

In 30 years, and over 25,000 studies, **ZERO** adverse health effects have been found from low level EMR exposure. Australian EMR exposure standards are 10-50 times lower than the safe EMR levels ensuring no effects to human health. Transmission lines will not expose the public to EMR levels near the Australian Standard level. As such there are zero concerns to the health of residents around Wind Projects.

