

## **Appendix D. Hydro One EMF Sheet**

# St. Clair Line | Health & Safety

## Health & safety background

- Hydro One has a dedicated team that regularly monitors global studies around electric and magnetic fields (EMF) and ensures our infrastructure is built and maintained following best practices and industry standards.
- We look to [Health Canada](#), the [World Health Organization](#) and the [International Commission on Non-Ionizing Radiation Protection](#) (ICNIRP), for guidance on EMF.
- Based on global studies which have and continue to be regularly monitored, Health Canada and the World Health Organization indicate members of the public do not need to take precautions to protect from fields produced by extremely low frequencies such as transmission lines.

## Key facts

- Electricity produces fields which are referred to as EMFs. **EMFs are invisible forces found everywhere electricity is used** including household appliances, power cords, and wires.
- They are strongest when close to their source. As you move away from the source, the **strength of the fields fades rapidly**.
- In North America, all electricity including transmission lines, operate at 60 hertz, which is considered to be extremely low frequency.
- World Health Organization states “despite extensive research, to date there is **no evidence** to conclude exposure to low level electromagnetic fields is harmful to human health.”
- Health Canada recognizes the effects of electricity has been studied extensively and the science does not support the need for concern over long term health effects.
- Health Canada states that you do not need to take precautions to protect yourself from fields produced by electricity (extremely low frequency) because exposures are far below the limits recommended by the ICNIRP guidelines (The International Commission on Non-Ionizing Radiation Protection).

## Additional resources

- <https://www.hydroone.com/power-outages-and-safety/corporate-health-and-safety/electric-and-magnetic-fields>
- <https://www.canada.ca/en/health-canada/services/health-risks-safety/radiation/everyday-things-emit-radiation/power-lines-electrical-appliances.html>
- <https://www.who.int/news-room/questions-and-answers/item/radiation-electromagnetic-fields>

- <https://www.icnirp.org/en/frequencies/low-frequency/index.html>

We are committed to understanding and addressing any health concerns individuals may have. In the meantime, if you have any questions, please contact Hydro One's Community Relation's team:

**1-877-345-6799**

**Community.Relations@HydroOne.com**

[www.HydroOne.com/Etobicoke](http://www.HydroOne.com/Etobicoke)