

Ice Vision

Ice Vision Detection System

Accurate, Automatic, & Autonomous

Ice Vision is an image based ice detection system that uses digital images of your overhead transmission lines to identify problem ice build-up. Our real-time system automatically measures ice profiles –directly on overhead transmission lines– and will alert you when it's necessary to take action.

Why Ice Vision?

Ice build-up on power lines can cause major power disruptions. The weight of built-up ice can cause lines, insulators, cross arms, and other hardware to break, resulting in lengthy and costly unplanned outages.

The Ice Vision system is used to assess and prioritize ice mitigation resources. Quick remediation saves on wear and tear of equipment under icing conditions. To date, Manitoba Hydro runs an Ice Vision system with 20 stations installed across the province. This system was developed in collaboration with the University of Manitoba's Virtual Reality Laboratory.



System Highlights:

- Accurate, automatic, and autonomous measurement of ice profiles directly on live conductors;
- Collection of weather data including temperature, wind, humidity, precipitation, and pressure;
- Alarms via email, and control centre HMI;
- Real-time ice picture;
- Wireless communication for remote access, control, and configuration of settings;
- Graphing and trending of historical data.

For more information, visit mhi.ca.

Available in accessible formats upon request.