

STRATEGIC VEGETATION MANAGEMENT FOR ONTARIO UTILITIES

Trim where the risk actually is.

ENDVR Energy combines Ontario utility field knowledge with TreeGuard™, Spotlite's satellite and AI vegetation monitoring solution. Together they give a distribution utility a continuous, network-wide, risk-ranked view of where vegetation threatens the system, so trimming follows measured risk instead of the calendar.

Know where to trim now, where to plan, and where to leave alone.



PRESSURE ON ONTARIO ELECTRICITY NETWORKS

Severe weather

Storms, wind, and ice bring marginal trees onto overhead lines. Stressed and dead vegetation fails first, and is the hardest to spot from the ground.

Reliability under scrutiny

Tree-related faults drive outage frequency and duration. Confidence in the numbers reported to your board and your regulator every year.

Spending on a fixed cycle

Calendar-driven trim cycles cut vegetation that did not need cutting and miss vegetation that did. The budget goes to the schedule, not the risk.

Partial visibility

Field inspection covers a fraction of the network at a time, and the picture starts ageing the moment the crew leaves the site.

EVERY STEP, COVERED

From mapping to compliance, one continuous picture.

Mapping

Strategy

Planning

Execution

Compliance

Each cycle builds on the last assessment, monitoring never stops

✗ The hard way

TODAY'S REALITY

- ✗ Fragmented, outdated vegetation data with partial right-of-way coverage
- ✗ Heavy reliance on manual field inspection
- ✗ Calendar-driven trim plans weakly connected to actual risk
- ✗ Clearance decisions based on generic rules and past practice
- ✗ Inconsistent contractor reporting, with slow manual verification
- ✗ Compliance proven after the fact, at audit, or after an incident
- ✗ No consistent record to put in front of a regulator or a board, year-over-year

✓ With ENDVR Energy + TreeGuard™

THE BETTER WAY. WHAT YOU GET

- ✓ **Network-wide risk assessment.** Every span assessed using satellite imagery and AI vegetation analytics. No sampling, no blind sections.
- ✓ **Encroachment & growth tracking.** Clearance and canopy change along the right-of-way, measured consistently year-over-year.
- ✓ **Prioritized work plans.** Highest-risk spans first, sequenced against the budget you actually have for the year.
- ✓ **Budget optimization.** Trim cycles that follow measured risk, so spend moves to the spans where it changes the outcome.
- ✓ **Reliability & compliance reporting.** A consistent risk history per asset, ready for regulators and the board.
- ✓ **Storms & outage insight.** Stressed, dead, and fall-risk trees identified early, before they become tree-caused faults and safety risks.

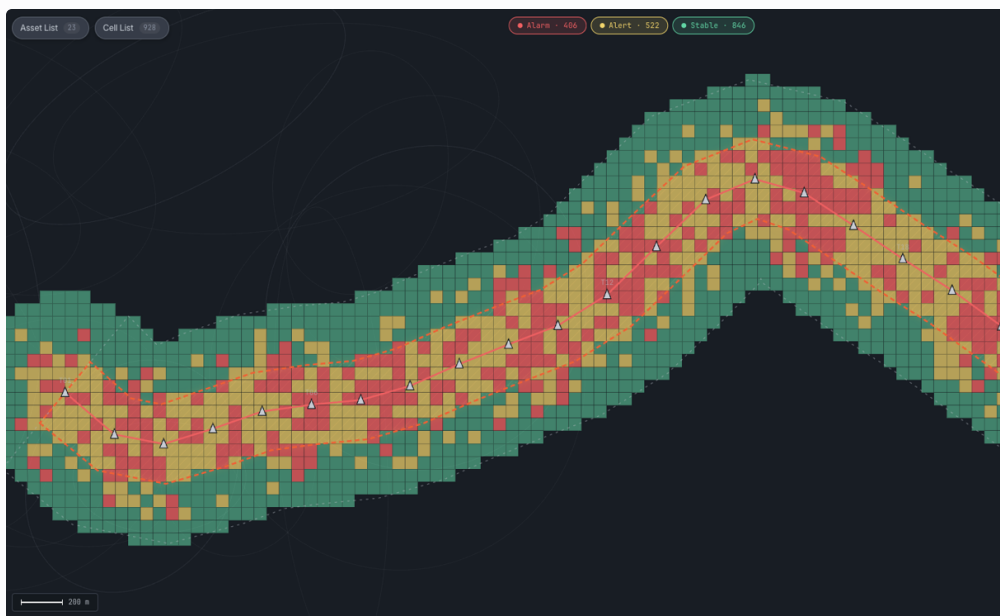
HOW THE MONITORING WORKS

Every tree measured against the line, then ranked by risk.

CLEARANCE STATUS *

- **Contact** 0 m
Crown has entered the span.
Immediate intervention.
- **In buffer** 2–3 m
Inside the intervention buffer.
Plan proactively.
- **Clear** > 3 m
No immediate risk. Leave
alone this cycle.

* Distance thresholds are configured to the utility's own clearance standard.



TreeGuard™ corridor view: every cell along the right-of-way scored by clearance margin to the conductor, span by span, across the whole network.

**Data**

Very High Resolution optical satellite imagery for clearance and risk products; free Copernicus imagery for vitality time-series.

**Cadence**

Configurable. Monthly for change detection and audit, quarterly for clearance and classification, and annually for risk and planning.

**Deployment**

Cloud platform. No hardware, sensors, or field infrastructure, and no change to how crews work.

**Accuracy**

Tree-to-conductor distance validated against a LiDAR reference at approximately 1 m mean absolute error, including the close-range bands that trigger intervention.

**Works with LiDAR**

Existing LiDAR is used as the line-geometry baseline. Satellite monitoring keeps that baseline current between flights.

**Outputs**

Maps and dashboards in-platform, plus GIS and CSV exports into existing asset and work-management systems.

Up to 30%

lower vegetation OPEX through risk-based trimming

~1 m

validated distance accuracy, mean absolute error (MAE)

100%

of the network covered, continuously

Monthly

update cadence available for change and audit

PUBLIC & CREW SAFETY

Early identification of fall-risk trees near lines reduces contact incidents, roadway hazards, and wildfire ignition risk before storm season, not after.

GETTING STARTED

Start with a defined section of the network. ENDVR Energy scopes representative feeders, delivers the risk assessment and prioritized plan, and builds the business case for network-wide rollout. Currently implementing with an Ontario LDC.

Request a vegetation management demo today.

Partner with ENDVR Energy

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