

Tried, Tested, Trusted

SmogStop is the worlds most effective air pollution barrier for highways and railways.

Worlds 1st Approved Air Quality Barrier

SmogStop
BARRIER

OVER
50%
NO_x removal

SmogStop Barrier reduces air and noise pollution levels in surrounding neighbourhoods, and takes a two-pronged approach to reducing air pollution from major roads, highways and railways.



Proven aerodynamic design improves local air quality

SmogStop Barrier's aerodynamic design serves two main purposes. First, it directs traffic emissions into a channel and towards a photocatalytic coating that treats the pollutants. Second, it generates vortexes and enhances vertical mixing of emissions with clean air, significantly decreasing pollution levels in surrounding neighbourhoods.

Advanced computer models and wind tunnel testing conducted by Western University and the University of Guelph proved that SmogStop can reduce traffic emissions in downwind neighbourhoods by 58% compared to a conventional noise barrier.

But that's not all.



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smogstop.works

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Technical Specifications

- Tested and validated for 10 years
- Patented aerodynamic design and photocatalyst
- Photocatalyst utilizes the reduction reaction, an industry first
- Photocatalyst breaks down NO_x and VOCs
- Independently validated by government and academia
- Extensively tested using lab experiments, wind tunnels, and field trials
- Improves both local air quality and regional smog
- 1km of barrier can remove the NO_x equivalent to 200,000 vehicles annually



Powerful photocatalytic technology reduces regional smog

SmogStop has developed a proprietary coating that breaks down the NO_x and VOCs that produce smog. Powered by sunlight, it transforms these pollutants into harmless gases and water.

Wind tunnel and field tests conducted by the University of Guelph prove our aerodynamic design coupled with our photocatalytic coating can reduce monthly NO_x levels by up to 54% and daytime NO_x levels reduced by up to 92%. Over the course of a year, a single kilometre of SmogStop barrier can remove 16 tonnes of NO_x — the equivalent of taking 200,000 cars off that stretch of road every day.

Meanwhile, laboratory testing at the University of Toronto shows SmogStop is 4 times more effective than titanium dioxide. And unlike titanium dioxide, which develops a scale that reduces its efficiency over time, our proprietary coating produces harmless byproducts that do not compromise performance.

European Partner for SmogStop