

## Saving Birds with Effective Glazing Solutions

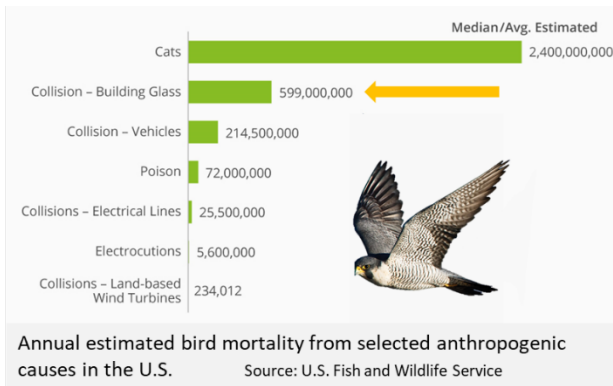
### The request:

- Support the implementation of bird-friendly design strategies such H.R.1986 - Federal Bird Safe Buildings Act of 2021 and S.791 Federal Bird Safe Buildings Act of 2021
- Reference NGA's Best Practice for Bird Friendly Glazing Design Guide in bird-friendly glazing legislation

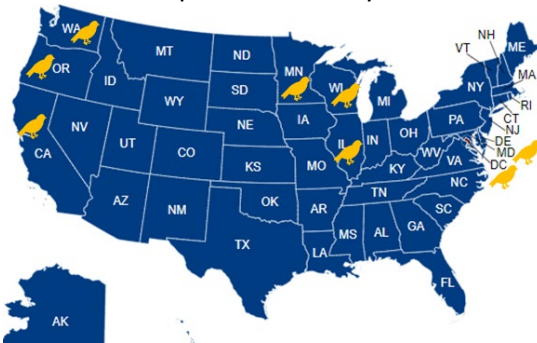
### The issue:

Clear and reflective surfaces in the built environment can be invisible threats to birds.

Clear surfaces may create perceived flythrough conditions. Birds may perceive images reflected in the glass such as vegetation to be real and may fly into the glass thinking they are trees or sky.



Mandatory and voluntary ordinances to prevent bird-window collisions at government and/or commercial buildings have been adopted by several states, municipalities, and institutions. Currently, the codes are regionally implemented and don't require consistency.



### The strategy:

Interrupting reflections by creating visual markers or patterns on the glass at a specific spacing and geometry can significantly reduce bird collisions. Architects are specifying this type of glass, termed *Bird-Friendly Glass*, as high as the mature tree canopy for the region/site.

Bird-Friendly glazing can reduce the number of birds colliding with the building, as documented in many examples.



1. Oregon Zoo Education Center- zero collisions since installation in 2017. 2. Swathmore College, PA - one collision since installation in 2017. 3. Javits Center in NY- 90% reduction in collisions since installation in 2013. 4. National Aviary, PA- zero collisions since installation in 2020.

NGA's *Best Practice for Bird Friendly Glazing Design Guide* is referenced in GSA P-100 Facilities Standard. Other standards and legislation should also reference this guide for consistency in implementation as high as the mature tree canopy for the region/site.

Manufacturing and installation of bird-friendly window products are skilled trades, creating jobs.

National Glass Association (NGA) combined with the Glass Association of North America (GANA) in 2018 to create the largest trade association serving our industry. We develop standards, create technical resources, and promote and advocate for glass in the built environment. Learn more at [glass.org/about-nga/advocacy](http://glass.org/about-nga/advocacy). For further information on glass industry sustainability efforts and CO<sub>2</sub> eq. please feel free to contact NGA Technical Staff at <mailto:technicalsvcs@glass.org>.

## References:

- <https://www.statista.com/chart/15195/wind-turbines-are-not-killing-fields-for-birds/>
- NGA *Best Practice for Bird Friendly Glazing Design Guide*- [glass.org/store](http://glass.org/store)
- <https://www.fws.gov/library/collections/threats-birds><https://abcbirds.org/glass-collisions/existing-ordinances/>
- Effectiveness of AviProtek® Bird Friendly Glass- <https://www.walker-glass.com/resources/bird-safe-glass>
- <https://www.nycaudubon.org/our-work/conservation/project-safe-flight/bird-friendly-building-design>



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