

## Introduction Infographic



### **Climate Change**

Earth's average atmospheric temperature is set to increase by 1.5 degrees Celsius by 2040 (Masson-Delmotte et al., 2021).

Over 1.7 million deaths have been recorded in children below the age of 5 as a result of environmental pollution.



### **Wind Turbines**

Wind turbines are a cleaner alternative, but they generate noise that can be harmful.

Sound restrictions are placed on wind turbines. With modern wind turbines, broadband noise is the main contributor.



### **Biomimicry**

Biological airfoils, such as owl wings have inspired wind turbine blade and wing designs already.

However, bat wings, pterodactyl wings, and penguin wings could also prove to be useful in generating a higher power-to-sound ratio..