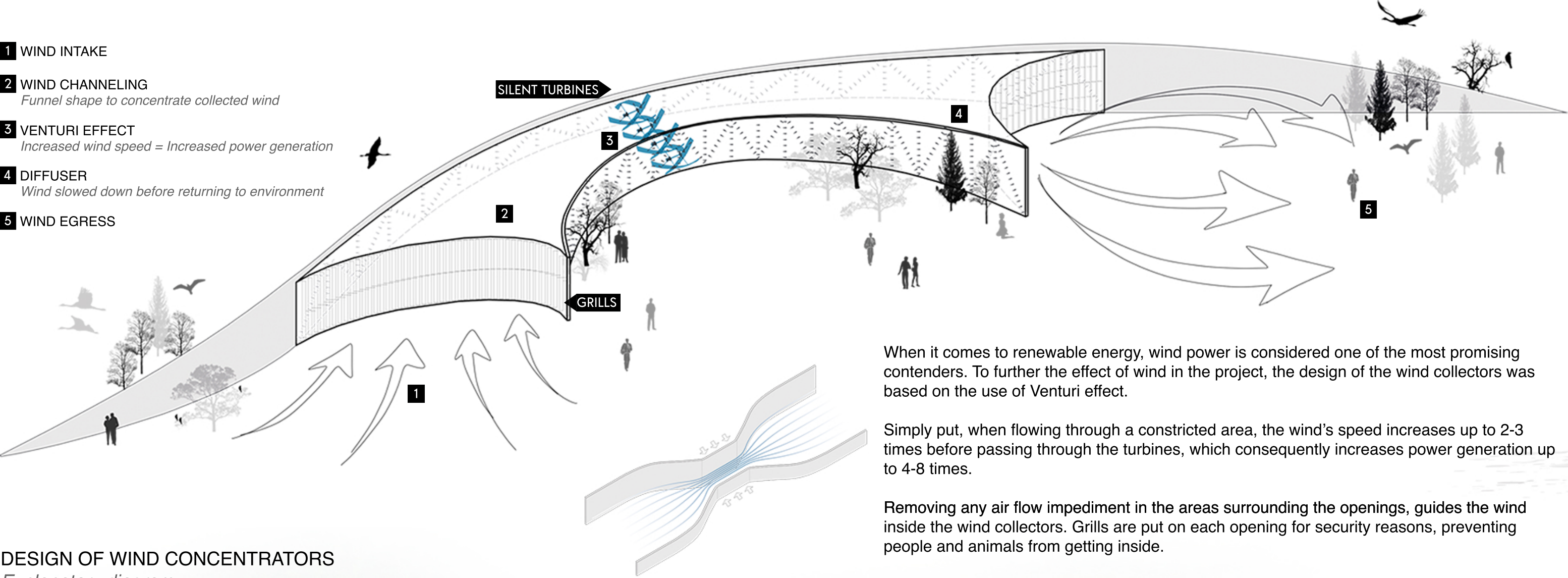


# ARCHITECTURE OF WIND

- 1 WIND INTAKE
- 2 WIND CHANNELING  
*Funnel shape to concentrate collected wind*
- 3 VENTURI EFFECT  
*Increased wind speed = Increased power generation*
- 4 DIFFUSER  
*Wind slowed down before returning to environment*
- 5 WIND EGRESS



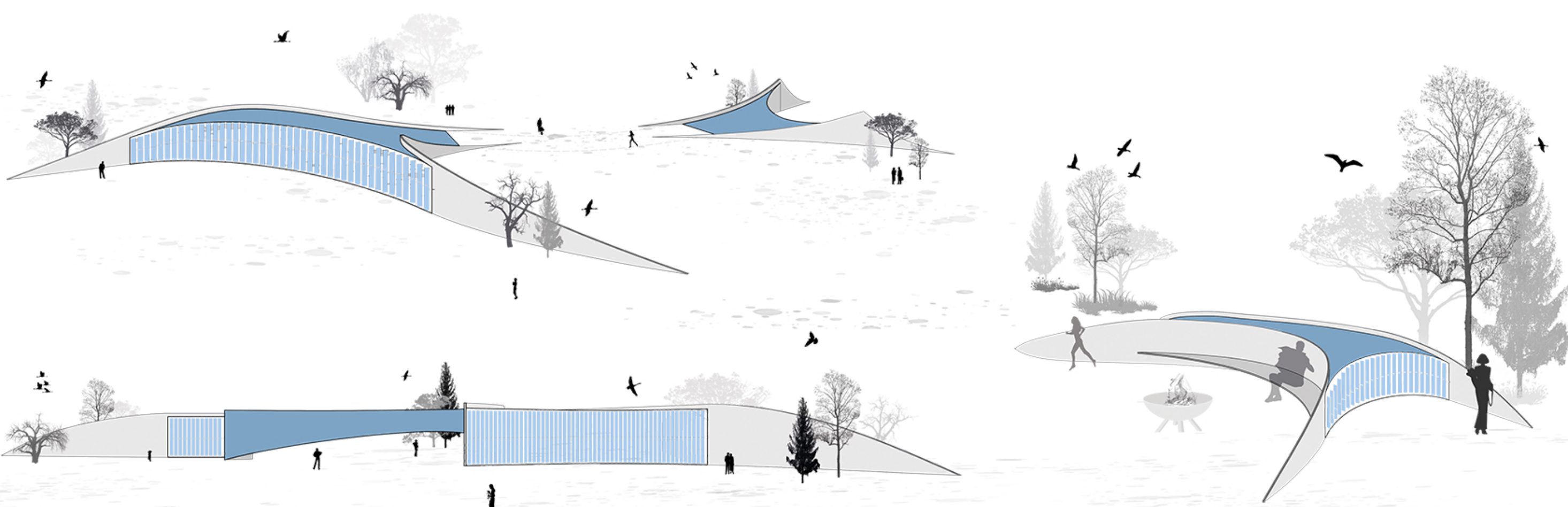
DESIGN OF WIND CONCENTRATORS  
*Explanatory diagram*

When it comes to renewable energy, wind power is considered one of the most promising contenders. To further the effect of wind in the project, the design of the wind collectors was based on the use of Venturi effect.

Simply put, when flowing through a constricted area, the wind's speed increases up to 2-3 times before passing through the turbines, which consequently increases power generation up to 4-8 times.

Removing any air flow impediment in the areas surrounding the openings, guides the wind inside the wind collectors. Grills are put on each opening for security reasons, preventing people and animals from getting inside.

Newly innovative silent turbines are used to prevent sound pollution, which can be disruptive to local wildlife and communities.



DESIGN OF WIND CONCENTRATORS  
*Multiple design options were generated, including underground and bridge-like structures*

MODULARITY OF WIND CONCENTRATORS  
*The design can be scaled down as outdoor furniture for personal energy generation*

