

Windy Wakes

Kemal Ahmed, Yih-Jwu Hsiao



Problem

- Cars use 2.6% of their fuel pushing drafts of wind
- There are few locations to place windmills in cities
- Some cities don't have much natural wind
- Windmills don't generate much power below a certain minimum wind speed
- Opposing wind gusts from cars on either side of the meridian hit each other head on

Solution

- Vertical windmills in the middle of highways generate electricity from both directions at the same time.
- Barriers between each windmill in array
- The windmills redirect vehicle gusts to the opposite direction, speeding up opposing traffic

Additional Details

Open sourced barrier designs to prevent interference between different windmills in an array

kWH per windmill?

[Streetmix](#)