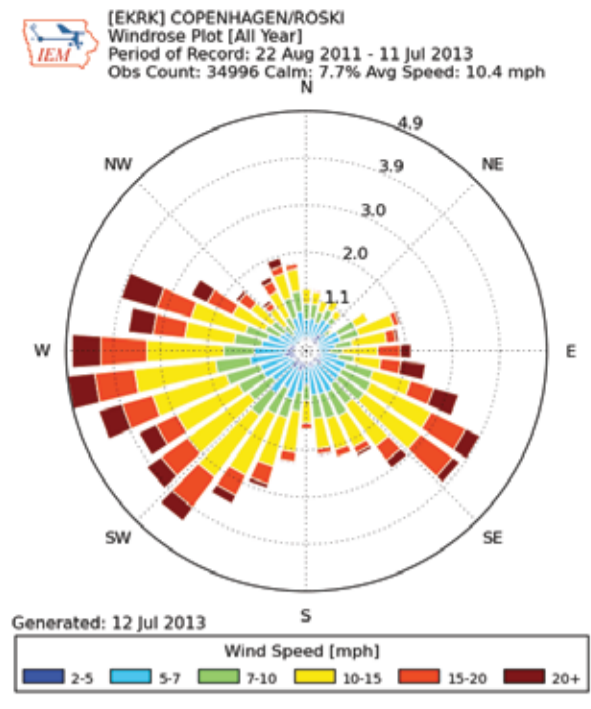
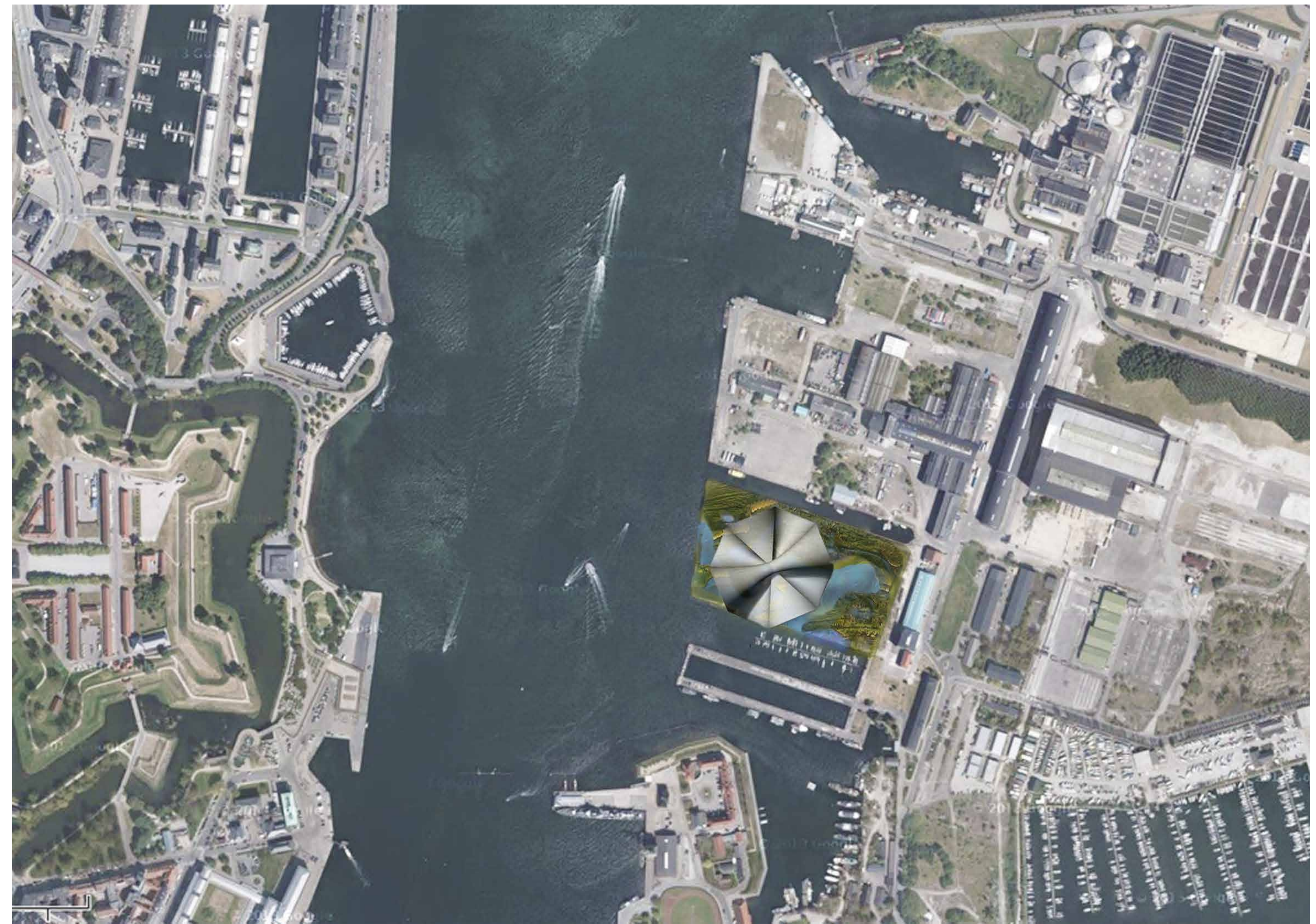
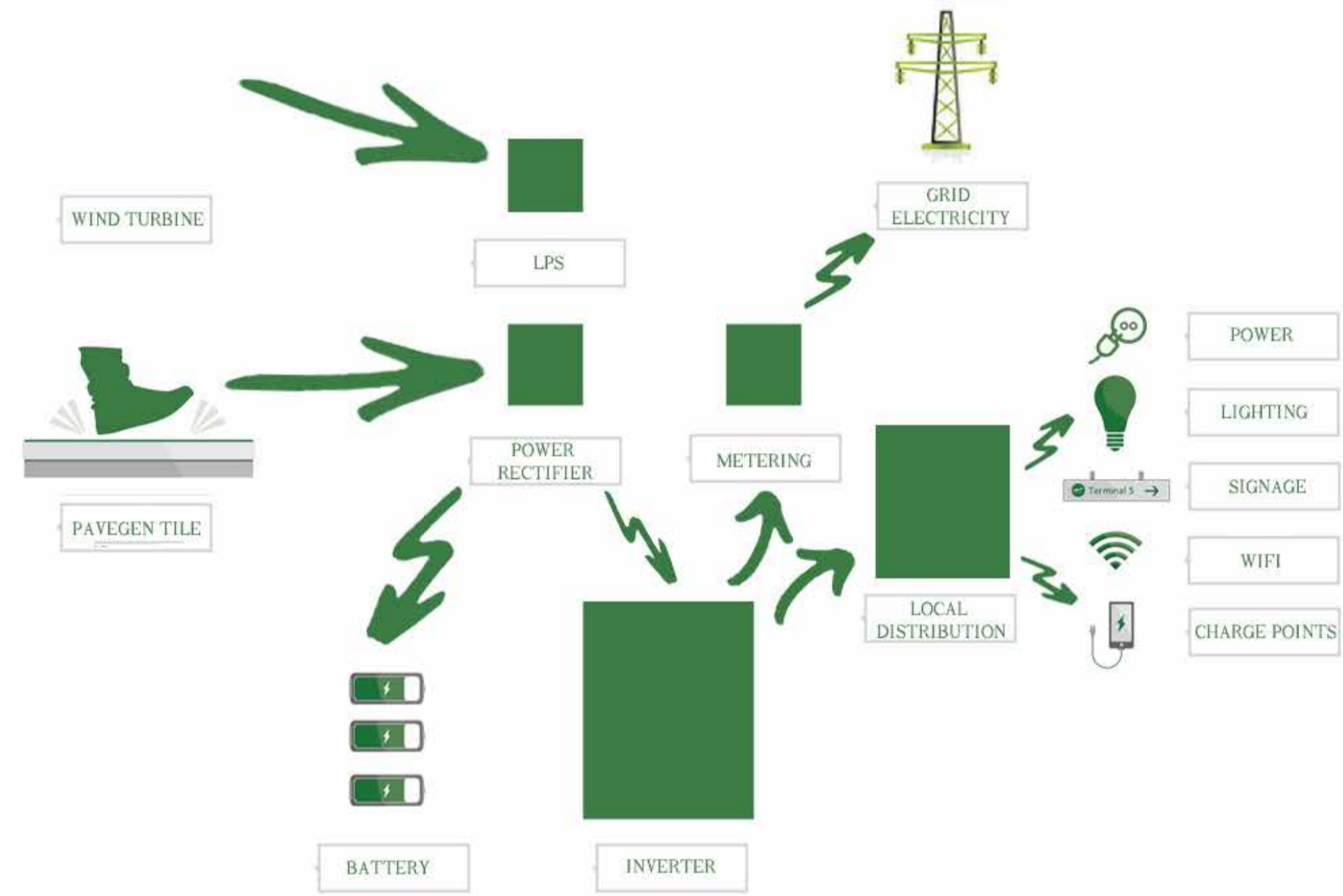


# TECHNICAL DETAILS



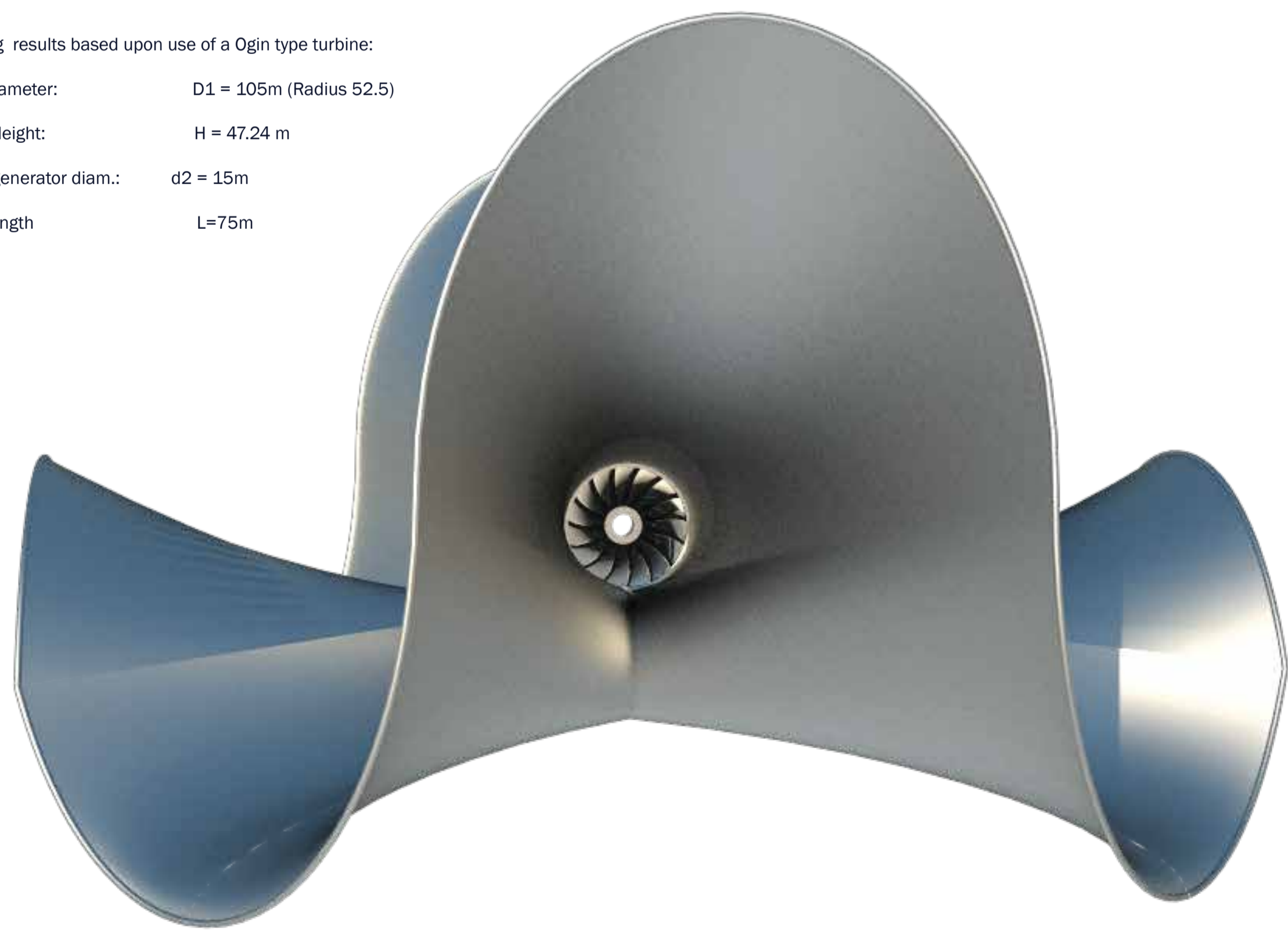
On a busy day with average prevailing winds in an effective direction it is anticipated the 100kW turbine can produce enough electricity to keep the site and surrounding street lighting powered for a whole month and your average Copenhagen household supplied for up to half a year.

Computational Fluid Dynamic simulation (CFD) has proven that the shape developed by our team, with its huge inlets, dynamically formulated curves and unique dimensions based upon principles developed by leading innovators over the past few years is successful in increasing wind velocities and as such the cut in point of our turbine, allowing the rotor blades opportunity to rotate and maintain an output power of 100kW in the ideal prevailing wind, even at wind velocities of less than 10m/s (Average wind velocity in Copenhagen of 10.4m/s).



Upscaling results based upon use of a Ogin type turbine:

- Intake Diameter:  $D1 = 105\text{m}$  (Radius 52.5)
- Turbine Height:  $H = 47.24\text{ m}$
- Venturi/generator diam.:  $d2 = 15\text{m}$
- Funnel length:  $L=75\text{m}$



The turbine

