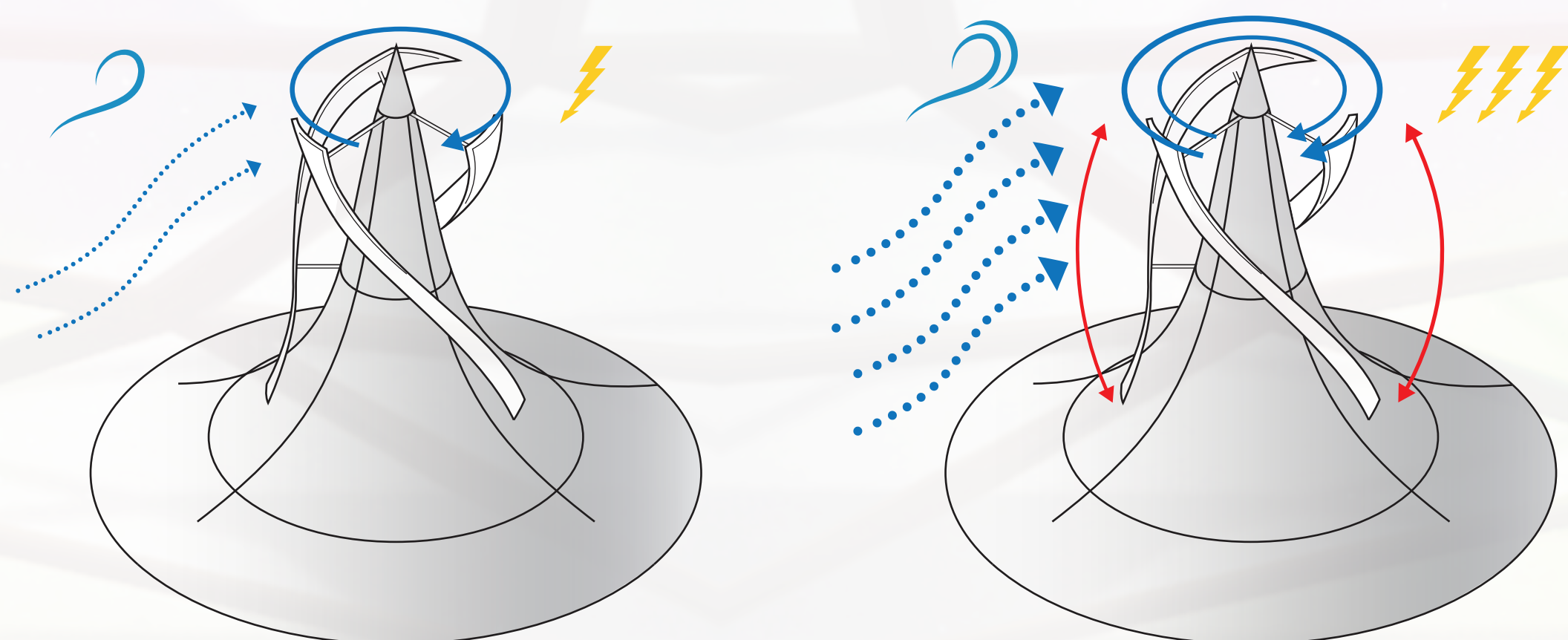


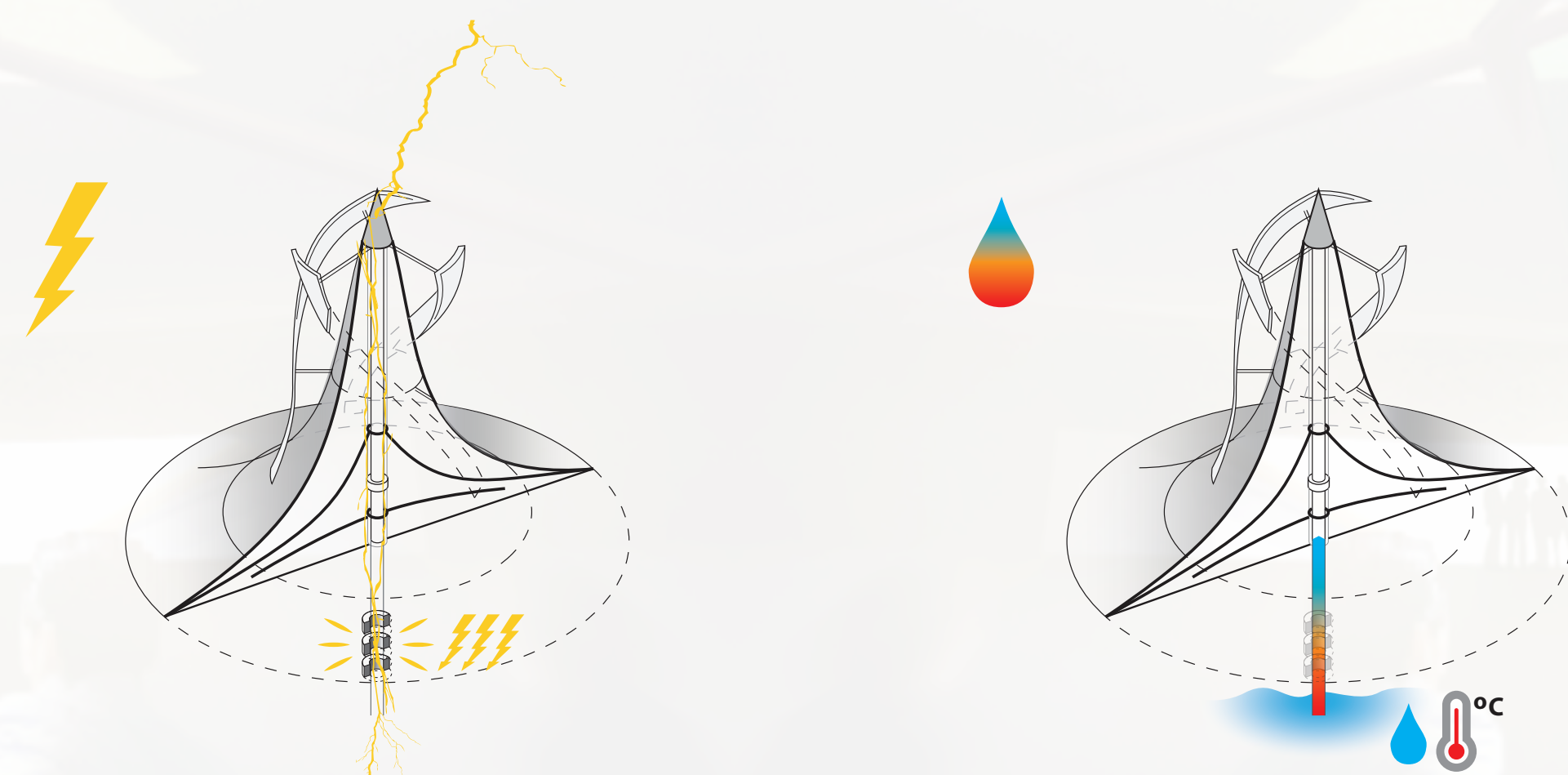
### Solar chimney

Additionally, on sunny days the movement of heated air rising upwards produces energy thanks to turbine mounted inside the shaft. Just like flower opens its petals in beautiful sunny weather, air movement inside the chimney causes the very top of the tower to open.



### Wind energy

One of the main sources of energy is 70 meters high vertical wind turbine. In order to make the best of wind power there's a whole operating system to control the arrangement, the active surfaces of the wings. With its height and cutting edge control system the turbine would become a landmark of wind's turbine era.



### Lightning catcher

Because of its height the tower would be very susceptible to be hit by lightning. Today's technology is not yet able to accumulate the power of the electric current caused by a lightning, however, recent discoveries in the field of nanotechnology show that it is only a matter of time, and long. Graphen base batteries sytem located under the ground in carbon fiber tube wall, would collect the tremendous energy created by a lightning. The whole system is electrically grounded. The net coating provides for a Faraday cage protecting people inside the building.

### Heat pump

The use of submersible pumps allows the use of warm liquid to power the local heating network of the city. Heat pumps are designed to move thermal energy opposite to the direction of spontaneous heat flow by absorbing heat from a cold space and releasing it to a warmer one, and vice-versa.

