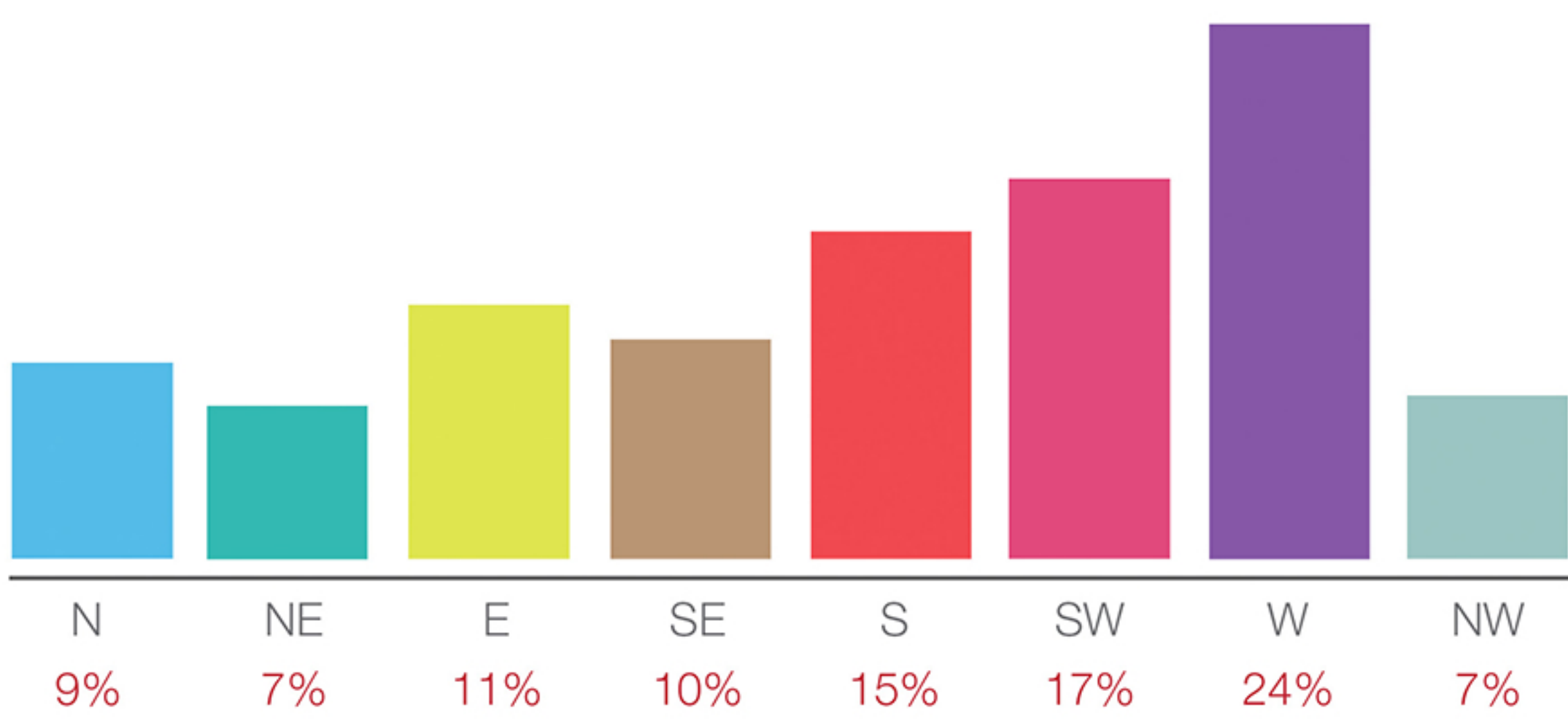


Piezoelectric is the concept used in electric power generation here. In this farm, power will produce with the help of Piezo-trees. Leaves of these trees are made of special not fragile material with piezoelectric properties. Wind make the leaves of these tress move such as any other trees in the world with the difference that collision of Piezo-leaves produce an amount of DC electric current. Energy produced by a leaf is small but if we collect total energy of all leaves then we have considerable electrical energy.

The main advantage of Piezo-trees than wind turbines are: The Piezo-trees are more beautiful, no danger to birds, no need for generator or big equipment, less probability of failure.

Raised Farm has been dug from the ground and has been raised. Roots of tress in this farm are visible. They are designed to a specific shape, the roots are really vertical and horizontal arms from suitable material. The roots have three application: 1.bearing of trees weight, 2. energy transmission 3. A place for "TV-storages" installation.

How the transmission system work? Energy of every Piezo-leaf move through stem and trunk of tree to roots, energy then transfer through roots to underground where they join and attach to some electrical cables. Cables finally deliver energy to sub-station. Substation is a room with required equipment (e.g. converters) that convert DC electric current to AC and gives the final energy to Copenhagen's grid. But it's not all, "TV-storages" (Will be described in the next paragraph) may take or give energy to this network



Copenhagen Wind Direction over the Entire Year

Over the course of the year typical wind speeds vary from 4 mph to 21 mph (light breeze to fresh breeze), rarely exceeding 30 mph (strong breeze). The highest average wind speed of 14 mph (moderate breeze) occurs around January 3, at which time the average daily maximum wind speed is 21 mph (fresh breeze). The lowest average wind speed of 10 mph (gentle breeze) occurs around August 1, at which time the average daily maximum wind speed is 15 mph (moderate breeze). The wind is most often out of the west (24% of the time), south west (17% of the time), south (15% of the time), and east (11% of the time).

This report describes the typical weather at the Copenhagen Airport (Kastrup near Copenhagen, Denmark) weather station over the course of an average year. It is based on the historical records from 1974 to 2012. Earlier records are either unavailable or unreliable.

Kastrup near Copenhagen has a humid continental climate with warm summers and no dry season. The area within 25 miles of this station is covered by oceans and seas (47%), croplands (41%), built-up areas (10%), and grasslands (3%).