

Air-gen effect energy from thin air

Nikola Tesla's vision of the atmosphere as an enormous battery is set to be realised on a microscopic scale using humidity in the air

HYDROLOGIC CYCLE

Earth's largest energy carrier, regulator and balancer

Evaporation

Liquid transforms into gas

Condensation

Gas precipitates as liquid

Hydrologic energy exchange

~60,000 TWh per year

Global electricity demand

~28,500 TWh per year



Mean free path

Distance single molecule of water travels in air before bumping into another

Electricity-generating material:

Almost any material with pores of 100nm or less

Thickness – 20,000nm, 1/5 width of human hair

Molecules bump into upper layer creating charge imbalance from top to bottom, like thunderclouds

When water molecules are suspended in air, mean free path is about 100 nanometres. **Each molecule has charge**

Upper electrode

100nm pores

Lower electrode



Can be stacked for greater output

