



(REVIEW ARTICLE)



## Part 2: Concept development of 'Weather energy transformers (WETRAN)

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### Abstract

One of the first thing you likely do in the morning is to look out the window and see what the *weather* is like. We are interested in harnessing or combatting the weather to capture all sources of energy it produces. The energy, a weather, may encounter from include heat, light, wind, wave and storms. These translational energies are transformed to electrical energy to lighten the homes and buildings; and further to produce green hydrogen to fuel the essential needs of the daily life. Thus, a concept of Weather Energy Transformers (WETRAN) is developed to describe the Consolidated weather energy conversion (CWEC) & Weather forecast energy prediction (WFEP). The WETRAN's are known as Weather Hybrid Energy Transformers are made primarily to quest the global free energies. WETRAN installations are predicted to come into existence by 2030.

**Keywords:** WETRAN; WEC; Solar; Wind; Wave; Storm; H2; PtX

### 1. Introduction

#### 1.1. What is Weather and What is Climate?

Weather is the state of the atmosphere at any given time and place. Most of the weather that affects people, agriculture, and ecosystems takes place in the lower layer of the atmosphere. Familiar aspects of weather include temperature, precipitation, clouds, and wind that people experience throughout the course of a day. Severe weather conditions include hurricanes, tornadoes, blizzards, and droughts [1].

Climate is the long-term average of the weather in a given place. While the weather can change in minutes or hours, a change in climate is something that develops over longer periods of decades to centuries. Climate is defined not only by average temperature and precipitation but also by the type, frequency, duration, and intensity of weather events such as heat waves, cold spells, storms, floods, and droughts [1].

#### 1.2. What makes Weather Systems?

The six main components of weather are temperature, atmospheric pressure, wind, humidity, precipitation, and cloudiness. Putting together these components describe the weather at any given time. Meteorologists and Scientists study weather forecast of these components along with the knowledge of atmospheric processes. These six components will compose of WETRAN device and are processed to electrical energy to further produce green hydrogen.

The weather affects day-to-day changes in weather can influence the world. Cloud patterns indicate the presence of weather systems like rain, heat waves, cold snaps, humidity, and cloudiness.

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Weather systems are simply the movement of warm and cold air across the globe. These movements are known as low-pressure systems and high-pressure systems. High-pressure systems are rotating masses of cool and dry air. High-pressure systems keep moisture from rising into the atmosphere and forming clouds. On the other hand, low-pressure systems are rotating masses of warm and moist air. They usually bring storms and high winds [2].

### 1.3. What is WETRAN made of?

Here, the context of Weather is made of the following.

- Wind transformation
- Oceanic wave transformation
- Solar radiation transformation
- Photonic light transformation
- Storms transformation

WETRAN's are offshore/onshore mechanical-bot hybrid devices made of above five weather transformations to produce electrical energy to green Hydrogen fuels, so called as Power-to X.

### 1.4. What are the functions of WETRAN?

Functions of WETRAN are as follows:

- WETRAN's are Mechanical-bots, AI built, Digital Twin enabled, Weather Hybrid Energy Transformers with Industry 5.0 Technologies
- WETRAN's are Satellite tested
- WETRAN's are iCloud & Web interface tested
- WETRAN's are not Humans

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## 2. Conclusion

The WETRAN's will be prototype tested and installed on Oceans and on the Land.

We arrange Call for Papers.

We reach Weather & Climate Ministries and regulate the Policies and Concept development.

Finally we reach World Organisations to raise potential Capital budget on causal Weather Transformers, making the World a gifted free Weather Energy.

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## References

- [1] United States Environment Protection Agency, Climate Change Indicators. <https://www.epa.gov/climate-indicators/weather-climate>
- [2] Weather, National Geographic Education. <https://education.nationalgeographic.org/resource/weather>

**Appendix**

*Definition Sketch of Weather Energy Transformer (WETRAN), 15 Megawatt.*

