Claims:

1. A system suitable for desalinating sea-water, at least a portion of the system being at least one of directly and indirectly powered by wind via a wind power system, the system comprising:

a drawing part where sea-water is drawn in

a first treatment part configured to perform preliminary treatment of sea-water drawn in to produce first stage treated sea-water;

a second treatment part configured to receive first stage treated sea-water to produce second stage treated sea-water capable of being further communicated for further treatment for at least one of producing freshwater and recovery of material,

wherein each of the drawing part, the first treatment part and the second treatment part is associated with at least one supply part for supplying power for operation,

wherein the wind power system comprises a mechanical system and a generator system, the mechanical system being configured to harness wind energy and the generator system being coupled to the mechanical system, the generator system being able to generate energy based on harnessed wind energy from the mechanical system, and

wherein each supply part associated with each of the drawing part, the first treatment part and the second treatment part is capable of being at least one of:

directly powered, based on the mechanical system, by wind for operation; and

indirectly powered, based on the generator system, by wind for operation.

2. The system as in claim 1, the mechanical system comprises:

a movable portion; and

a translator portion coupled to the movable portion,

wherein, the movable portion is shaped and dimensioned to be moved based on wind and the translator portion is configured to translate movement of the movable portion so that energy is capable of being generated by the generator system based on the translated movement.

3. The system as in claim 2,

wherein movement of the translator portion is translatable into mechanical energy, and

wherein the generator system corresponds to an electricity generating system which is configured to generate electricity based on the mechanical energy.

4. The system as in claim 1,

wherein the drawing part is associable with a first supply part,

wherein the first treatment part is associable with at least one of a second supply part and a third supply part,

wherein the second treatment part is associable with the second supply part, and

wherein the first supply part is a mechanical based supply part, the second supply part is an electromechanical based supply part and the third supply part is an electrical based supply part.

5. The system as in claim 4, wherein the mechanical based supply part corresponds to a mechanical device capable of being mechanically coupled to the wind power system in a manner such that the mechanical device is operationally driven by wind energy harnessed by the wind power system in a manner so as to draw, at the drawing part, sea-water.

6. The system as in claim 4,

wherein the electromechanical based supply part corresponds to an electricity generating system,

wherein the electricity generating system comprises a mechanical portion and a generator portion, the generator portion being coupled to the mechanical portion.

wherein the mechanical portion is further coupled to the wind power system in a manner such that the mechanical portion is operationally driven by wind energy harnessed by the wind power system in a manner so as to, in-turn, drive the generator portion for producing electricity.

7. The system as in claim 6, further comprising:

at least one driving portion for driving at least a portion of operation of at least one of the first treatment part and the second treatment part,

wherein the electricity generating system is capable of being electrically coupled to the driving portion so as to communicate produced electricity to the driving portion so as to power the driving portion for driving at least one of:

at least a portion of the operation of the first treatment part; and

at least a portion of the operation of the second treatment part.

8. The system as in claim 4,

wherein the electricity based supply part corresponds to an electrical device which is capable of being electrically coupled to the wind power system,

wherein the wind power system is capable of producing electricity based on harnessed wind energy and communicating produced electricity to the electrical device so as to power the electrical device for driving operation of the first treatment part.

9. The system as in claim 4,

wherein the second treatment part comprises a pressure tank part configured for application of pressure to the received first stage treated sea-water.