APPARATUS, SYSTEM AND METHOD FOR RESOURCE DISTRIBUTION

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a Continuation Application of U.S. patent application Ser. No. 16/030,177, filed Jul. 9, 2018 and entitled Apparatus, System and Method for Resource Distribution, now U.S. Pat. No. 10,730,763, issued Aug. 4, 2020 (Attorney Docket No. X79), which is a Continuation Application of U.S. patent application Ser. No. 14/031,559, filed Sep. 19, 2013 and entitled Apparatus, System and Method for Resource Distribution, now U.S. Pat. No. 10,017,399, issued Jul. 10, 2018 (Attorney Docket No. L18), which is a Continuation-in-Part Application of U.S. patent application Ser. No. 13/793,552, filed Mar. 11, 2013 and entitled Apparatus, System and Method for Resource Distribution, now U.S. Pat. No. 9,936,596, issued Apr. 3, 2018 (Attorney Docket No. K33), which claims the benefit of U.S. Provisional Patent Application Ser. No. 61/703,015, filed Sep. 19, 2012 and entitled Apparatus, System and Method for Resource Distribution (Attorney Docket No. J56), each of which is hereby incorporated herein by reference in its entirety.

[0002] U.S. patent application Ser. No. 14/031,559, is also a Nonprovisional Application which claims the benefit of U.S. Provisional Patent Application Ser. No. 61/866,350, filed Aug. 15, 2013 and entitled Apparatus, System and Method for Resource Distribution (Attorney Docket No. K73), which is hereby incorporated herein by reference in its entirety.

FIELD OF INVENTION

[0003] The present disclosure relates to resource distribution. More particularly, the present disclosure relates to an apparatus, system and method for resource distribution.

BACKGROUND

[0004] Dependable access to the resources necessary to sustain life and foster prosperity eludes vast portions of humanity. Even in well developed areas of the world, natural disasters have demonstrated such access can be erased in little time at all. In some instances, e.g. military operations, the ability to easily create this access is extremely important.

[0005] According to the Canadian International Development Agency, about 1.2 billion people lack access to safe drinking water. The UN reports that a full 1.6 billion people lack electricity. Again, according to the UN, nearly one billion people lack access to the most basic of health services and about 3 times that number live on less than two dollars per day. Reports attribute tens of millions of deaths each year to entirely preventable water related diseases alone. Sadly, many of these deaths are children. Illness caused by water related disease affects even more and often leads to missed schooling and work. By improving dependable access to life sustaining and prosperity fostering resources the well being of billions of people throughout the world could be improved. Moreover, these people would be enabled to contribute trillions of dollars to the global economy every year.

[0006] Many means of providing such access are well known, however, these means are significantly obstructed in situations where infrastructure is either minimal or has been destroyed. Some solutions to these problems require large numbers of consumables such as filters and chemicals which can be costly and are hard to import into an isolated location. Some require highly skilled operators or constant maintenance by a trained technician. Others only address, for example, the water quality or medical aspect of the problem. Additionally, known solutions do not offer the dependent population a way to foster economic activity. Known solutions are also not easily adaptable to the differing needs of different areas, populations, or situations. Another issue with existing solutions is that they rely on donated funding and are therefore limited. Many solutions provide free services which in effect may actually stifle economic growth because a local entrepreneur who desires to offer such services will not be able to compete with the free nature of the services.

[0007] The ability to provide these necessary resources from a single locus without the need for large quantities of consumables or skilled staff while at the same time providing a hub for economic activity is, accordingly, acutely desirable. Additionally desirable is the ability to easily tailor such a locus to the needs of any given area, population, or scenario. Ideally such a solution should be self sustainable and economically profitable at the local, regional, and global level.

SUMMARY

[0008] In accordance with an embodiment of the present disclosure, a system for the distribution of resources is disclosed. The system includes a housing, at least one power generation source connected to the housing, a power control and distribution system and at least one water distillation device, wherein power from at least one power generation source powers that at least a water distillation device.

[0009] Some embodiments of this aspect of the invention include one or more of the following. Wherein the system further includes a water distillation system including a first product reservoir, at least one source reservoir, a first plumbing line connected to the water distillation device, the first plumbing line feeds into a second plumbing line, wherein the second plumbing line is connected to the first product reservoir, wherein water from the at least one source reservoir is distilled by the water distillation device to produce product water, and wherein the first plumbing line is located higher in elevation than the second plumbing line. Wherein the second plumbing line comprising a valve. Wherein the system further includes

a second product reservoir. Wherein the system further includes a third plumbing line connected to the first plumbing line and the second product reservoir. Wherein the third plumbing line comprising a valve. Wherein the first product reservoir comprising a water liquid level sensor. Wherein the first product reservoir comprising a water line connected to a check valve. Wherein the at least one source reservoir comprising at least two liquid level sensors. Wherein the at least one power generation source is a Stirling generator. Wherein the system further includes at least one energy storage device. Wherein the at least one energy storage device is a battery bank. Wherein the at least one power generation source is at least one solar panel. Wherein the system further includes at least one communications tower. Wherein the system further includes a charging station configured to charge at least one portable power source.

[0010] In accordance with an embodiment of the present disclosure, a water distillation system is disclosed. The