Claims:

1. A waste-to-resource system, comprising:

an anaerobic digester for producing biogas from biowaste;

a biogas power generator connected to the anaerobic digester;

a circulating pump connected with and adapted to remove digestate from the anaerobic digester and reintroduce the digestate to the anaerobic digester to circulate the digestate;

a programmable controller for controlling the circulating pump, wherein the programmable controller is programed to activate the circulating pump to mix or circulate the digestate at predetermined intervals within the anaerobic digester wherein the interval is a predetermined time based interval;

a biogas storage tank located between the anaerobic digester and the biogas power generator; and

a biogas compressor coupled to the biogas storage tank for transferring biogas produced by the anaerobic digester to the biogas storage tank, wherein the biogas compressor is configured to transfer the biogas to the biogas storage tank when pressure within the anaerobic digester reaches a predetermined level.

2. The waste-to-resource system according to claim 1, further comprising a waste storage tank, and a blender coupled to the waste storage tank, wherein the waste storage tank is connected to the anaerobic digester via an inlet thereof.

3. The waste-to-resource system according to claim 1 or 2, further comprising one or more water jackets wrapped externally around the anaerobic digester.

4. The waste-to-resource system according to claim 3, wherein the one or more water jackets comprise one or more heating elements.

5. The waste-to-resource system according to any one of claims 1 to 4, further comprising a solar heating system adapted to heat the anaerobic digester.

6. The waste-to-resource system according to any one of claims 1 to 5, further comprising one or more gas removal tank located between the anaerobic digester and the biogas storage tank.

7. The waste-to-resource system according to according to any one of claims 2 to 6, wherein the waste storage tank further comprises a mixer.

8. The waste-to-resource system according to any one of claims 1 to 7, further comprising at least one sensor in the anaerobic digester for measuring acidity, temperature and/or pressure.

9. The waste-to-resource system according to any one of claims 1 to 8, further comprising a safety valve carried by each of the anaerobic digester and the biogas storage tank.

10. A method of biowaste treatment comprising:

feeding hydrolyzed biodegradable matter into an anaerobic digester;

switching between mixing and not mixing a digestate within the anaerobic digester at intervals wherein the interval is a predetermined time based interval;

removing biogas from the anaerobic digester;

transferring the biogas produced by the anaerobic digester to a biogas storage tank via a biogas compressor when pressure within the anaerobic digester reaches a predetermined level; and

generating electricity with the biogas.

11. The method according to claim 10, further comprising grinding biodegradable matter; and hydrolyzing the same prior to feeding hydrolyzed biodegradable matter into the anaerobic digester.

12. The method according to claim 10 or 11, further comprising heating the anaerobic digester.

13. The method according to any one of claims 10 to 12, further comprising storing the biogas.

14. The method according to any one of claims 10 to 13, further comprising purifying the biogas.

15. The method according to claim 11 or any one of claims 12 to 14 when dependent on claim 11, wherein the hydrolyzing further comprises mixing.

16. The method according to any one of claims 10 to 15, wherein the interval is a predetermined time based interval.

17. The method according to any one of claims 10 to 15, wherein the interval is calculated based on a sensor range wherein when a value calculated from the sensor reach a predetermined range a circulating pump is programmed to activate to mix the digestate within the anaerobic digester and when the value calculated from the sensor are outside the predetermined range the circulating pump is programmed to deactivate.