WHAT IS CLAIMED IS:

1. A metal-air battery comprising:

a current collector;

a metal electrode comprising a metal and contacting the current collector;

an air electrode on the metal electrode and opposite the current collector;

a solid electrolyte between the metal electrode and the air electrode;

a discharge product of the metal on the air electrode;

wherein the metal-air battery is configured to release the discharge product.

2. The metal-air battery of claim 1, wherein the metal electrode comprises a metal, and the metal is an alkali metal, an alkaline earth metal, or a combination thereof.

3. The metal-air battery of claim 1, wherein the metal is sodium.

4. The metal-air battery of claim 1, wherein the solid electrolyte is in a form of a vessel, and the metal is disposed on an inside of the vessel.

5. The metal-air battery of claim 4, wherein the air electrode is disposed on an outside of the vessel, and the discharge product is disposed on the air electrode.

6. The metal-air battery of claim 1, wherein the solid electrolyte is in a form of a tube, and the metal is disposed on an outside of the tube.

7. The metal-air battery of claim 6, wherein the air electrode is disposed on an outside of the tube, and the discharge product is disposed on the air electrode.

8. The metal-air battery of claim 7, wherein the tube is configured to receive a fluid, and release the discharge product when contacted by the fluid.

9. The metal-air battery of claim 1, wherein the metal is a liquid, a solid, or both, and further comprising a protective layer on the metal electrode.

10. The metal-air battery of claim 6, wherein the protective layer comprises an oil, an ionic liquid, a liquid that is substantially non-reactive with the metal, or a combination thereof.

11. The metal-air battery of claim 7, wherein the oil is a hydrocarbon oil, a silicone oil, or a combination thereof, and wherein the oil has a density of 0.8 to 1.06 g/cm^3.

12. A system comprising the battery of claim 1, wherein the system comprises an electric vehicle.

13. The system of claim 12, wherein the electric vehicle is a ground vehicle, air vehicle, water vehicle.

14. The system of claim 12, wherein the electric air vehicle is configured to emit the discharge product.

15. An electric vehicle comprising the metal-air battery of claim 1.

16. The electric vehicle of claim 15, wherein the electric vehicle is an air vehicle.

17. The electric vehicle of claim 15, wherein the discharge product is released from the vehicle as the vehicle is propelled.

18. The electric vehicle claim 17, wherein the discharge product is flushed from the air electrode by a gas stream comprising air.

19. The metal-air battery of claim 1, wherein the air electrode is in contact with a second current collector.

20. The electric vehicle of claim 15, wherein the discharge product is removed from the air electrode, and optionally is stored in a vessel as a solid or a liquid.