CLAIMS

1. An electricity generator comprising:

a fuel container (20) for containing a fuel comprising a first and a second fuel component;

a source unit (30) configured to expose the fuel for input electromagnetic radiation for producing a nucleus mass reducing isotope shift in the first fuel component, wherein neutrons emitted from the first fuel component due to the nucleus mass reducing isotope shift in the first fuel component is absorbed by the second fuel component resulting in a nucleus mass increasing isotope shift in the second fuel component, and wherein the mass increasing isotope shift in the second fuel component induces an output of output electromagnetic radiation; and

an electricity generator housing (40) surrounding the fuel container (20), the electricity generator housing (40) supporting a first electrode (42) configured to photoelectrically transform the output electromagnetic radiation into electrons;

wherein the fuel container (20) comprises a fuel container housing (24) supporting a second electrode (22) configured to collect the electrons, thereby provide generation of electricity.

2. The electricity generator according to claim 1, wherein the fuel is a solid.

3. The electricity generator according to claim 1 or 2, wherein the fuel is TiD_x.

4. The electricity generator according to any one of claims 1-3, wherein the source unit (20) is configured to expose the fuel for electromagnetic radiation input energy in the infrared spectral range.

5. The electricity generator according to any one of claims 1-4, wherein the source unit (30) comprises an induction coil arrangement (32).

6. The electricity generator according to any one of claims 1-5, wherein the fuel container (20) comprises a fuel container housing (24), wherein the electricity generator housing (40) and the fuel container housing is delimiting a compartment (50).

7. The electricity generator according to claim 6, wherein the compartment comprises an inlet for an incoming flow of a fluid and an outlet for an outgoing flow of the fluid.

8. The electricity generator according to claim 7, wherein the fluid is an inert gas.

9. The electricity generator according to claim 8, wherein the inert gas is neon.

10. The electricity generator according to any one of claims 1-9, wherein the electricity generator housing (40) comprises a cooling unit configured to regulate the temperature of the electricity generator.

11. The electricity generator according to any one of claims 1-10, wherein the electricity generator housing (40) is configured to support the fuel container (20).

12. The electricity generator according to claim 11, wherein the electricity generator housing (40) is supporting the fuel container (20) at a seal (44).

13. The electricity generator according to claim 12, wherein the seal (44) electrically isolates the fuel container (20) from the electricity generator housing (40).

14. The electricity generator according to claim 12 or 13, wherein the seal (44) is configured to releasably attach the fuel container (20) to the electricity generator housing (40).

15. The electricity generator according to any one of claims 1-14, further comprising one or more support members (60) configured to act as support between the electricity generator housing (40) and the fuel container (20).

16. The electricity generator according to claim 15, wherein the fuel container (20) comprises a fuel container housing (24), wherein the electricity generator housing (40) and the fuel container housing is delimiting a compartment (50) and wherein the one or more support members (60) are arranged inside the compartment (50).

17. The electricity generator according to any one of claims 1-16, wherein the fuel container (20) is permeable for electromagnetic radiation in the ultra violet spectral range and/or in the soft X-ray range.