11. The combustible mixture according to Claims 1, 4-5 and 9, **characterized in that** in the solid phase M^1X_2 consists of a mixture $ZnCl_2$ and $ZnBr_2$.

12. The combustible mixture according to any of the preceding claims, **characterized in that** it additionally contains coke and ethanol as additives.

13. The fuel, **characterized in that** it contains the combustible mixture according to all preceding claims is hermetically closed in the container.

14. The fuel according to Claim 13, **characterized in that** the hermetically closed container is made of polymer material.

15. The fuel according to Claim 14, **characterized in that** the hermetically closed container is made of polyvinyl chloride.

~~16. The fuel according to Claim 13, **characterized in that** the hermetically closed container contains a partition separating the liquid phase from the solid phase and that the partition in contact with the acids from the liquid phase slowly disintegrates and allows gradual mixing of the liquid and solid phases, and thereby gradual hydrogen generation inside the container.~~

~~17.~~16. The fuel according to Claim 13, **characterized in that** the hermetically closed container is lined on the inside with an insulator.

~~18.~~17. The fuel according to Claim 13, **characterized in that** the heat insulator is a tar-based glue.

~~19.~~18. The fuel according to Claim 13, **characterized in that** one third of the hermetically closed container is filled with liquid and solid phases, whereas the rest of two thirds serves to receive the generated hydrogen.

~~20.~~19. The energy production method in thermoelectric power plants, **characterized in that** fuel according to any of the claims 13 – ~~19.~~18 is brought into the thermoelectric power plants furnace.

~~21. The energy production method in thermoelectric power plants according to Claim 20, **characterized in that** the fuel according to claims 13-19 replaces up to 50 % of required coal.~~

~~22. The energy production method in thermoelectric power plants according to Claim 20, **characterized in that** the fuel according to claims 13-19 replaces up to 60 % of required coal.~~

~~23. The energy production method in thermoelectric power plants according to Claim 20, **characterized in that** the fuel according to claims 13-19 replaces up to 70 % of required coal.~~

~~24. The energy production method in thermoelectric power plants according to Claim 22, **characterized in that** the fuel according to claims 13-19 replaces the entire required coal.~~

~~25. The energy production method in thermoelectric power plants according to Claim 20, **characterized in that** 1 kg of fuel according to claims 13-19 replaces 15 kg of lignite, or 4-5 kg of coke.~~

~~26. The energy production method in thermoelectric power plants according to Claim 20, **characterized in that** in the use of fuel according to claims 13 – 19 CO_2 emission is reduced up to 75%.~~

~~27.~~20. The use of fuel according to claims 13 – ~~19~~18, **characterized in that** the said fuel is used as substitute fuel for coal in thermoelectric power plants.

~~28.~~21. The use of fuel according to Claim ~~27~~20, **characterized in that** the property of the said fuel is to bind harmful flue gases developed as a result of incomplete coal burning in the thermoelectric power plants.

~~29.~~22. The use of fuel according to Claim ~~28~~21, **characterized in that** the said mixture binds CO_2.

~~30.~~23. The use of fuel according to any of the claims 13 – ~~19~~18, **characterized in that** the said fuel is used for energy production in industrial furnaces and in central heating furnaces.