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The invention relates to the production of steel of iron-oxidated materials.

The purpose of the invention consists in increasing the economization of the process. The installation includes a catalan furnace for the spongy iron production connected to a melting gasificator and a converter.

Into the melting gasificator, where it is produces gas for the catalan furnace, it is loaded a part of spongy iron and it is obtained a liquid cast iron.

The other part of spongy iron it is loaded in the converter fed with the liquid metal obtained into the cupola. In the capacity of gas for the production of the liquid metal in the cupola from the metal waste and coke, it is used a gas mixture proceeded from the catalan furnace, melting gasificator and converter. the device foresees some tank-buffers for the steel which are placed between the converter, cupola and melting gasificator. The invention gives the possibility to increase the economization of the process and completely to utilize the escaped gases.