

**Device and method for producing electric energy for
producing iron from oxide iron ores**

Abstract:

In an apparatus, comprising a plant for the electrothermic
5 preparation of ethyne from coal or a hydrocarbon-containing
gas providing a hydrogen-containing gas, a plant for the
production of iron by reduction of oxidic iron ores, and at
least one gas conduit which feeds the hydrogen-containing
10 gas from the plant for the electrothermic preparation of
ethyne as reducing agent to the plant for the production of
iron by reduction of oxidic iron ores, electric energy can
be utilized for the production of iron from oxidic iron
ores by feeding a hydrogen-containing gas, obtained in the
15 electrothermic preparation of ethyne from coal or a
hydrocarbon-containing gas, as reducing agent to the plant
for the production of iron by reduction of oxidic iron
ores.