

### Major energy saving measures in Steel Industry

The major energy saving measures that the plants have enumerated are given below:

Major energy saving measures	Investment (Rs. In lakhs)
Overhauling of BF gas holder	80
Recommissioning of gas mixing stations at rolling mills complex	15
Thermal insulation of bare heating surfaces of boiler & HP steam lines	6.6
Arresting steam leakages using online/conventional methods and by installation / replacement of steam traps and valves	3.5
Installation of capacitor banks at oxygen plants	10
Introduction of BF gas firing in boilers	400
Steam enhancement by providing extra heat in waste heat recovery boiler	27
Change of submerged arc furnace design from close to open type & improvement of charge distribution	43
SMS modification for long sequence casting	50
Use of washery rejects and chars in place of coal in boiler	-
Use of centrifuge to remove moisture from washed coal instead of oil fired boiler	20
Commissioning of stamp charging battery	19550
Improvement in combustion system of ignition furnaces at Sinter plant	1080
Centralised compressed air system	398
Top gas analysers for blast furnaces	70
Enhanced LD gas recovery	86
Installation of Ammonia incinerator with waste heat recovery	1075
Installation of gas fired boilers and cogeneration of power in boilers	12000

**Reference:**

Energy Management Policy – Guidelines for Energy Intensive Industry in India,  
Chapter 8, pp 162-188 by Bureau of Energy Efficiency