



**PAUL WURTH**

# **Paul Wurth's Energy Saving Program**

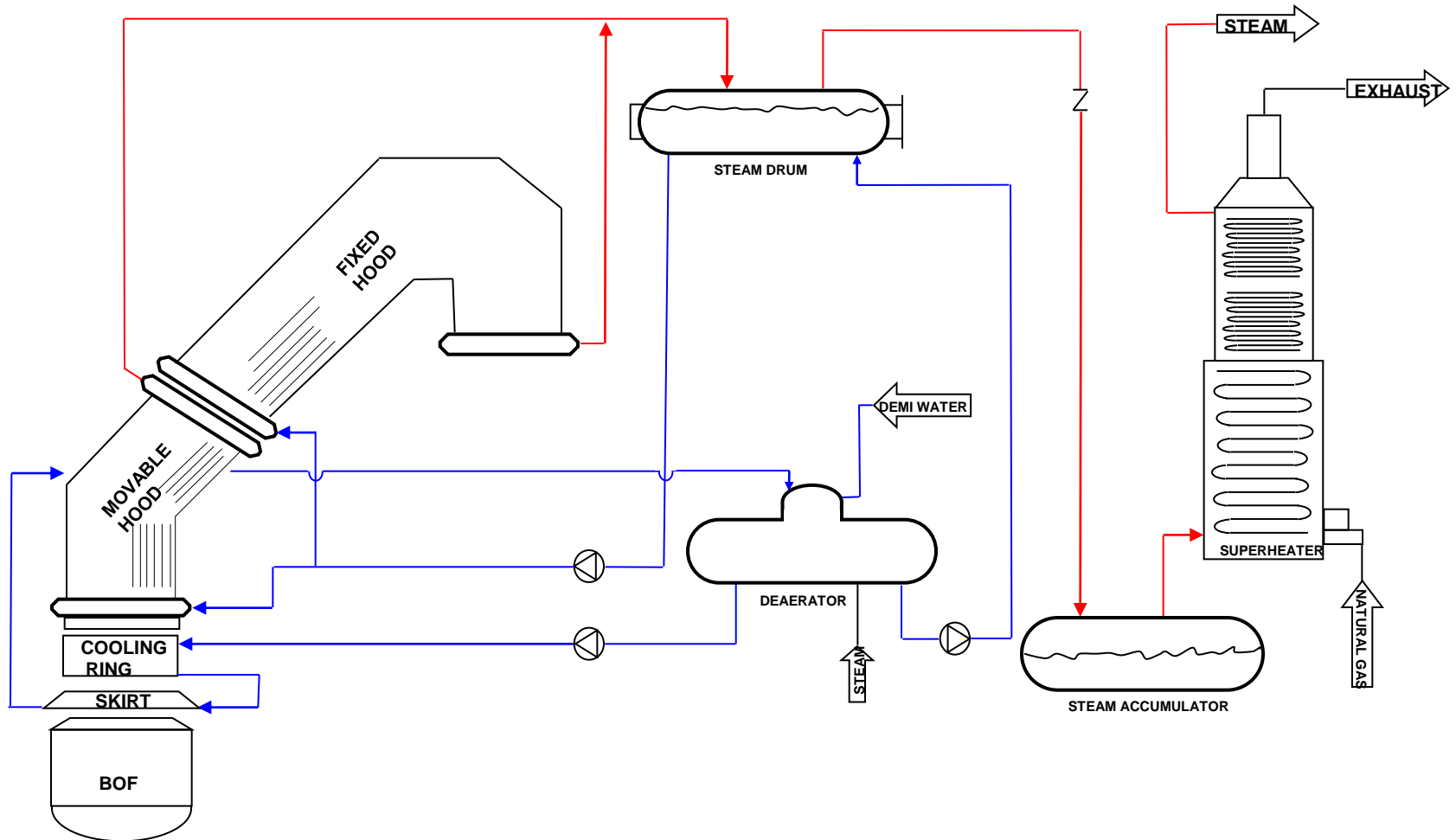
**Earth 2011, 11th East Asia Recycling Technology**

# Introduction

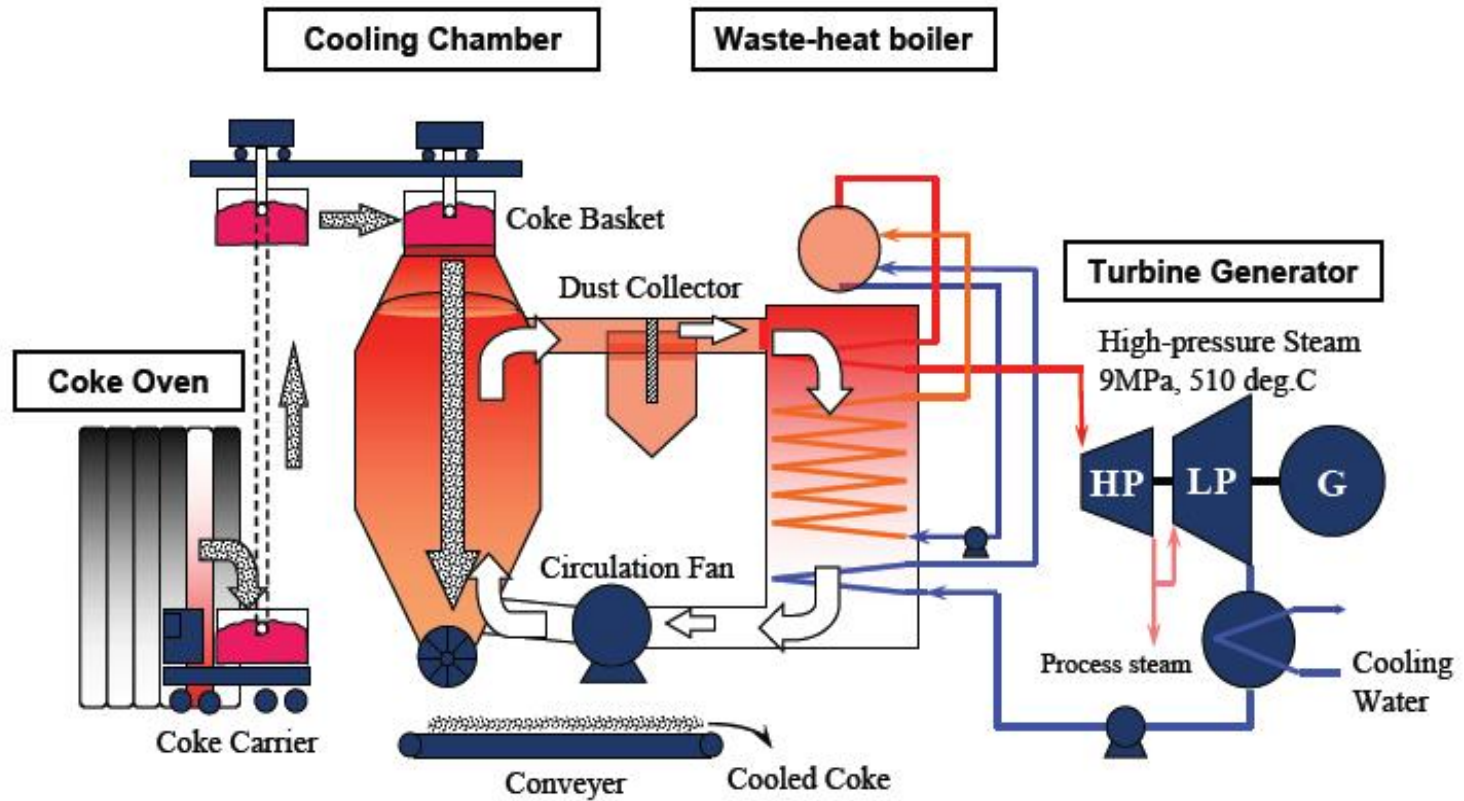


**Paul Wurth has launched a program with the focus to improve the energy efficiency and the carbon footprint in the iron making industry. Beyond the improvement of existing technologies, new energy saving and energy recuperation technologies are under development**

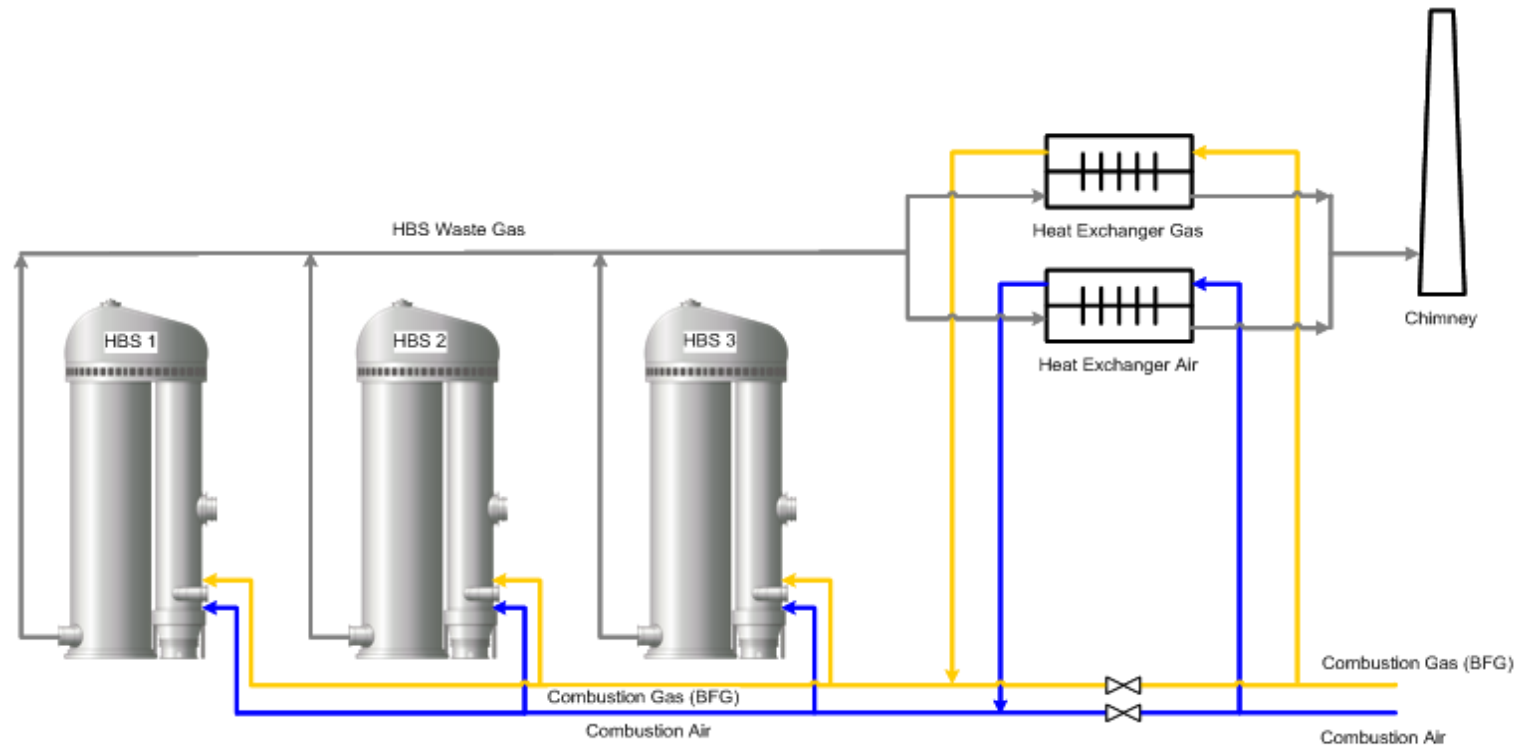
# BOF Cooling Hood with Energy Recovery



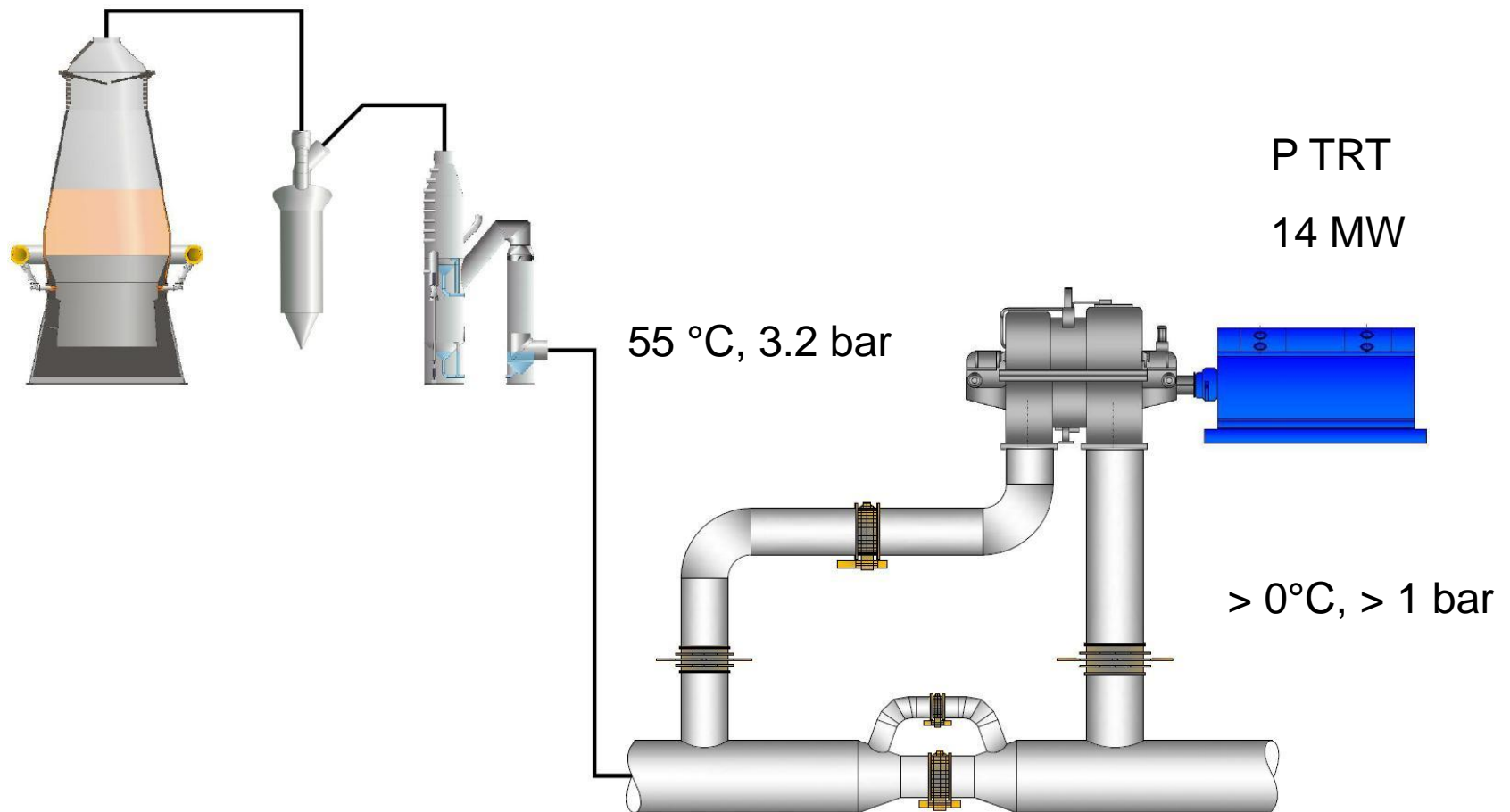
# Flow Sheet of CDQ System with Electric Power Production



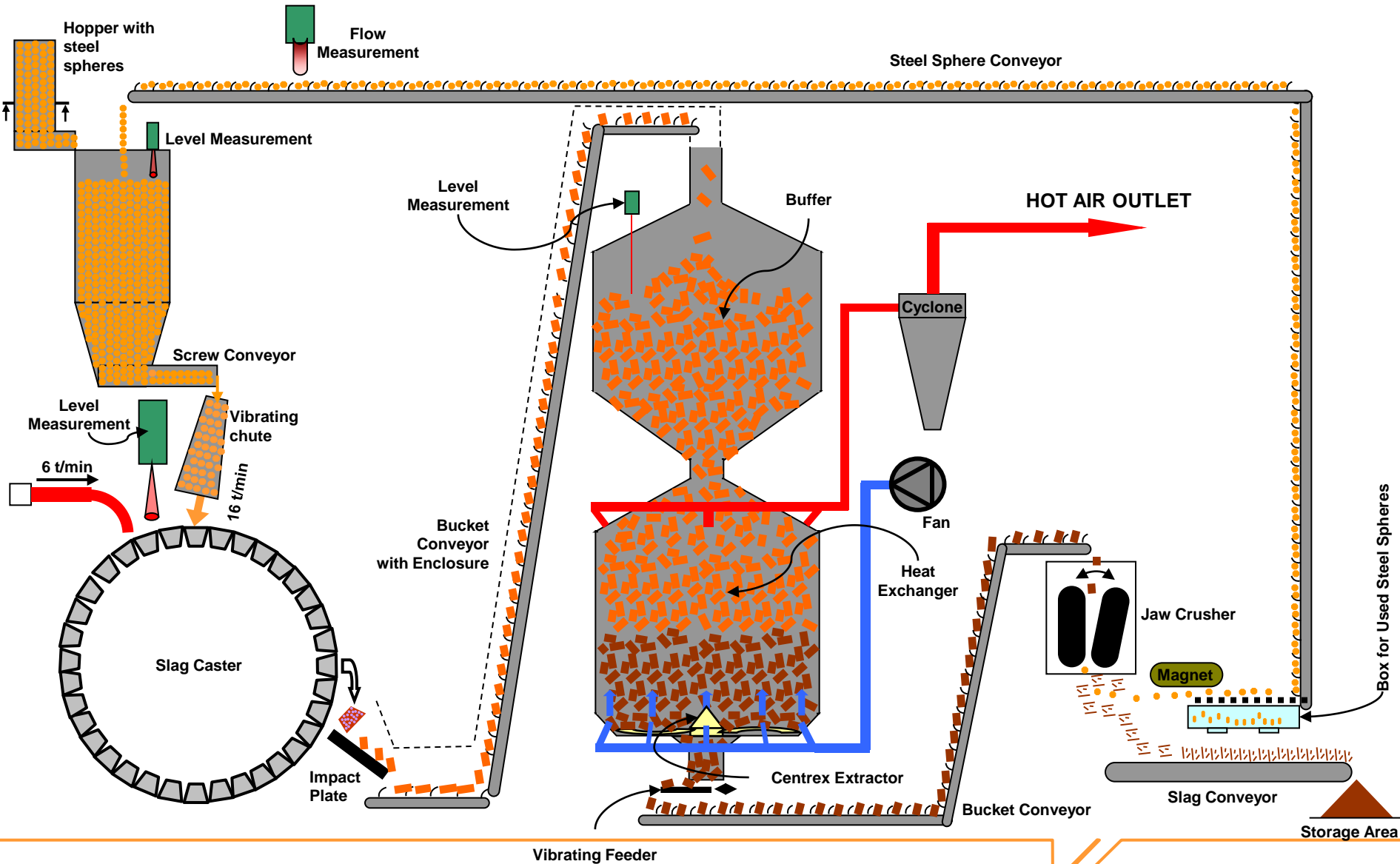
# Hot Stove Plant with a Heat Pipe Heat Recuperator



# Conventional TRT System



# INDUSTRIAL PLANT FLOWSHEET



## CONCLUSION

- ▶ **The Iron making environment produces large quantities of waste energy and CO<sub>2</sub>**
- ▶ **Specific Technologies to recover a part of the waste energy streams and to reduce the CO<sub>2</sub> emissions are available or under development.**
- ▶ **Additionally a modern Blast furnace should be equipped with a Bell Less Top charging system, a pulverized coal injection system and a modern automation system like Paul Wurth's BF Xpert, in order to establish safe and productive blast furnace operation, as a precondition for energy efficiency and low CO<sub>2</sub> emission rates.**

# Thank You

