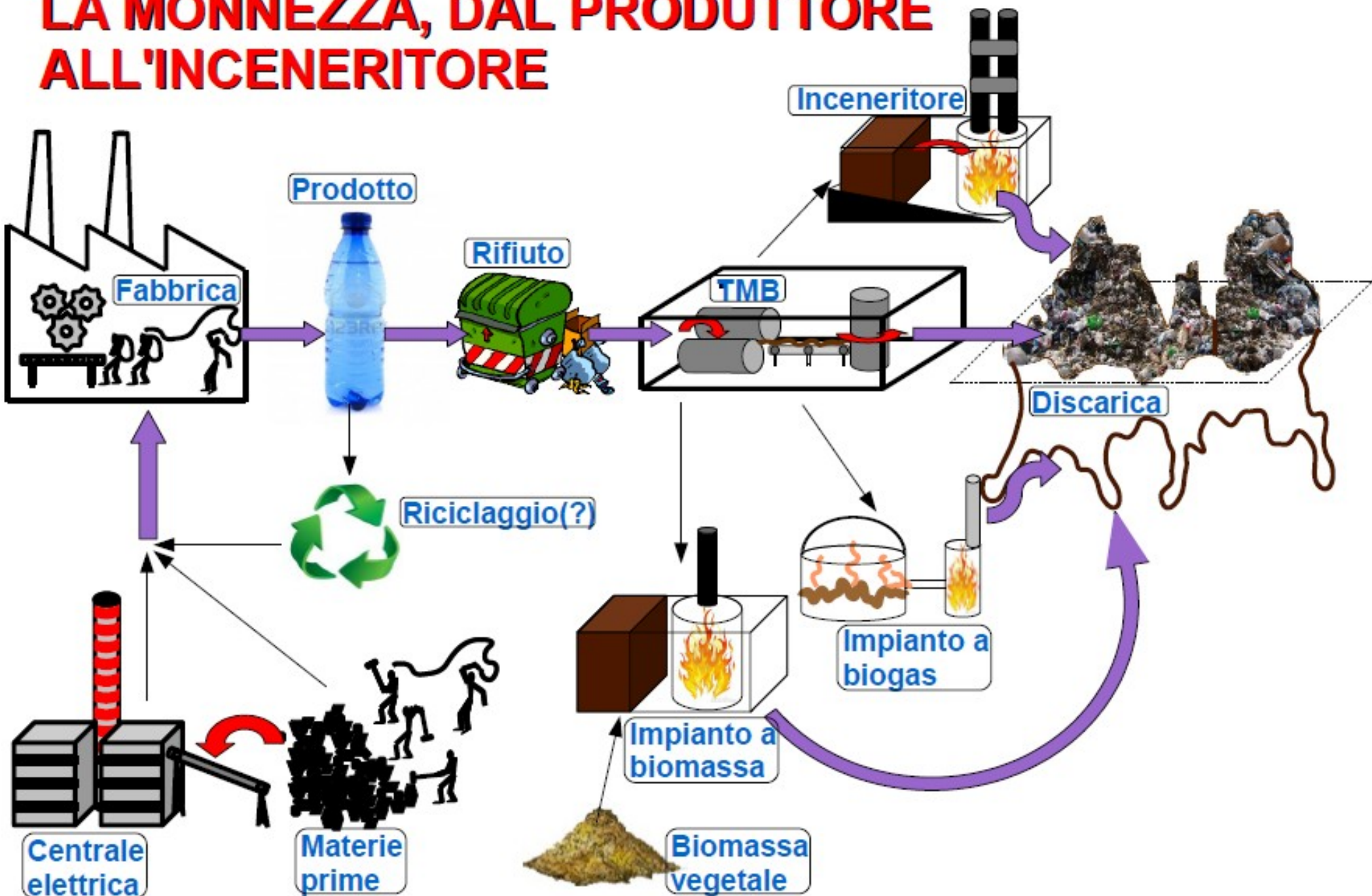


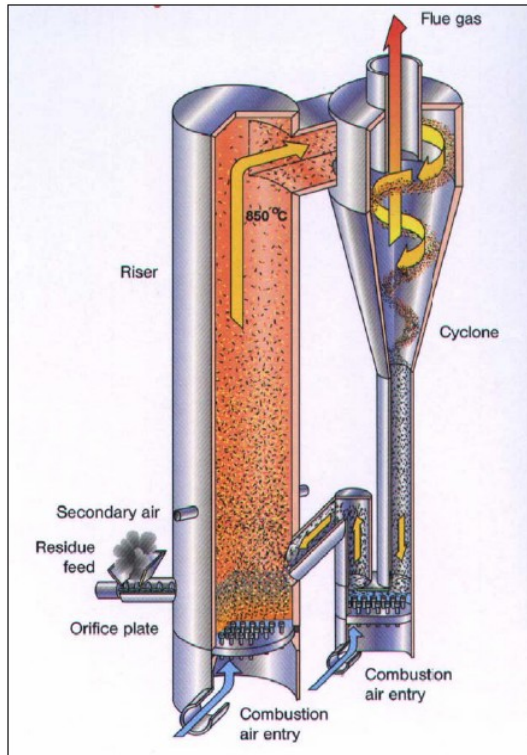
LA MONNEZZA, DAL PRODUTTORE ALL'INCENERITORE



TIPOLOGIE DI INCENERITORI



A LETTO FLUIDO



A GRIGLIA

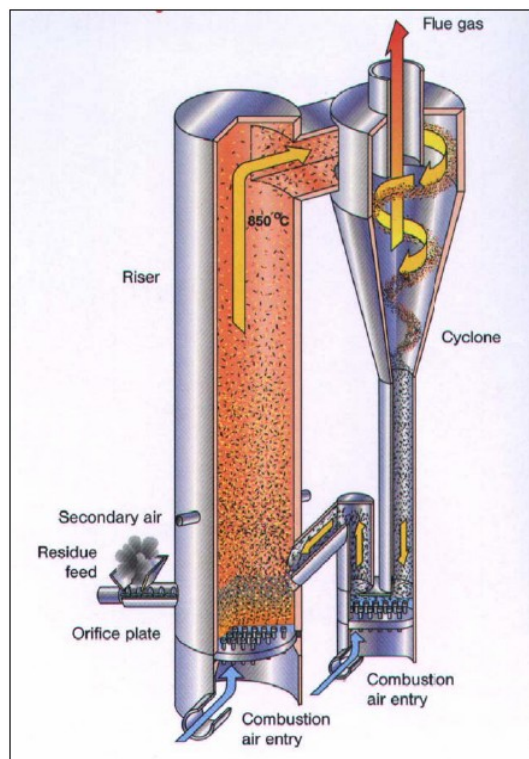


TIPOLOGIE DI INCENERITORI

A GRIGLIA



A LETTO FLUIDO



GASSIFICATORI



UN PO' DI STORIA

La tecnologia della gassificazione è stata sviluppata in siderurgia per eliminare quanto più possibile i composti tossici dal granulato perchè esso potesse essere riutilizzato industrialmente

EUROPA

THERMOSELECT

HOCHTEMPERATUR-RECYCLING

Hochtemperaturvergasung und Direkteinschmelzung von Entsorgungsgütern



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GIAPPONE



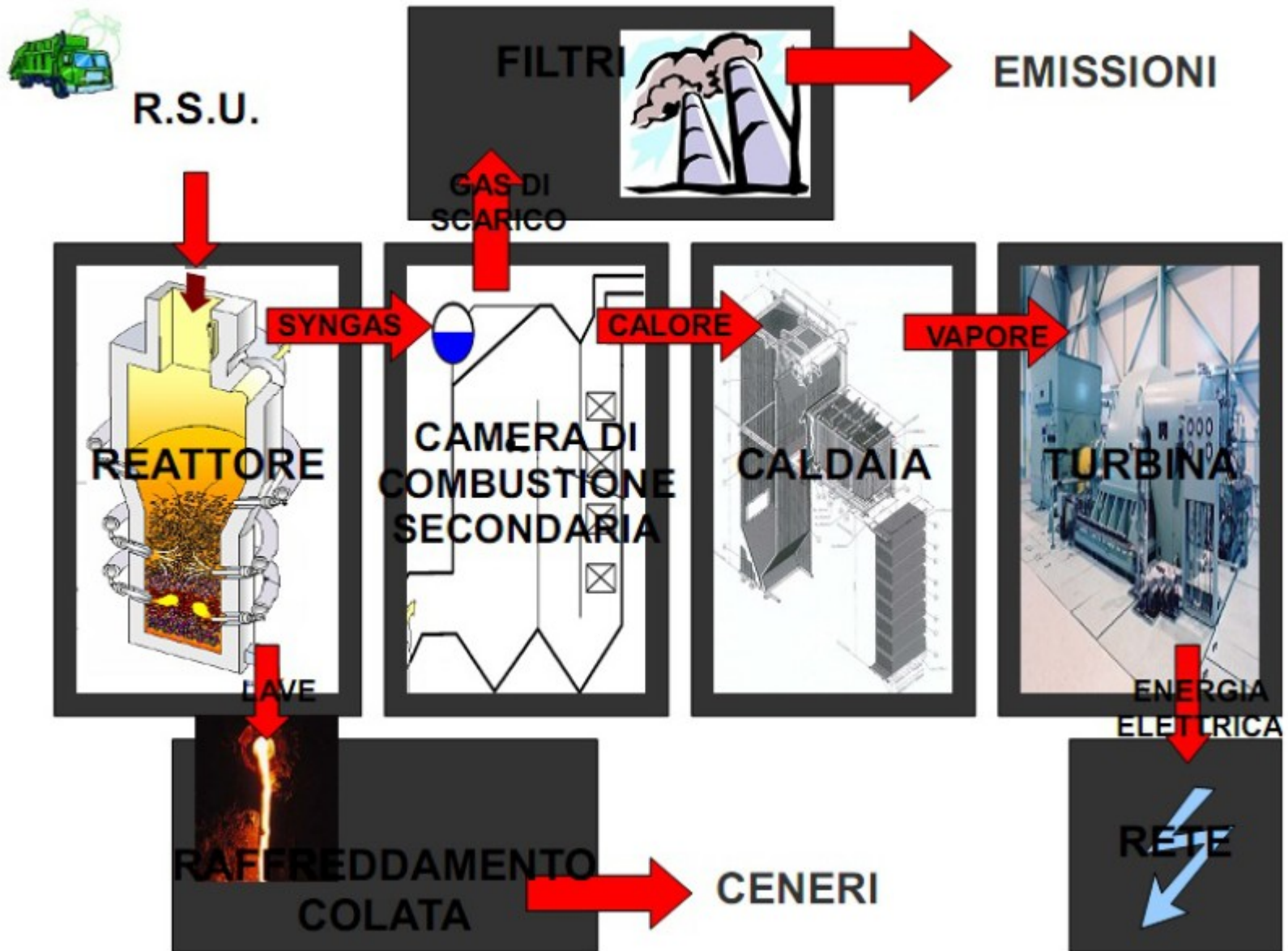
JFE Engineering Corporation

日本語 | 中文

COLARI

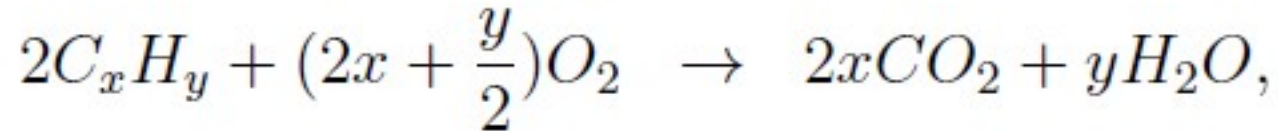
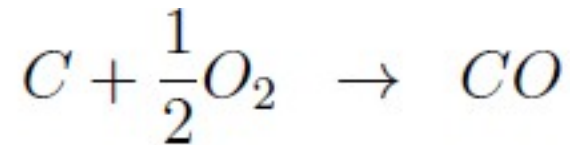
CONSORZIO LAZIALE
RIFIUTI

Malagrotta, Albano

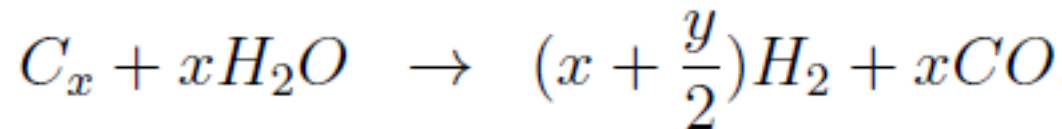
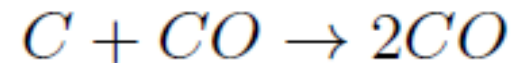
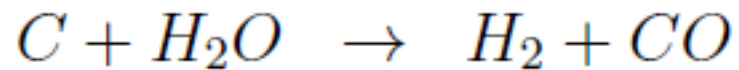


L'efficienza elettrica di questo tipo di impianti è del 21% contro circa il 35% delle altre tipologie di impianto

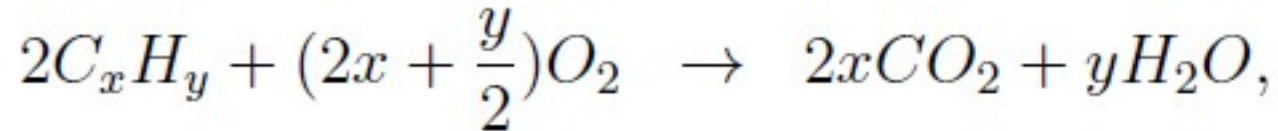
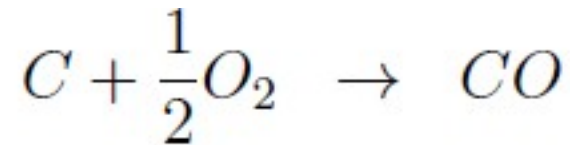
REAZIONI ESOTERMICHE



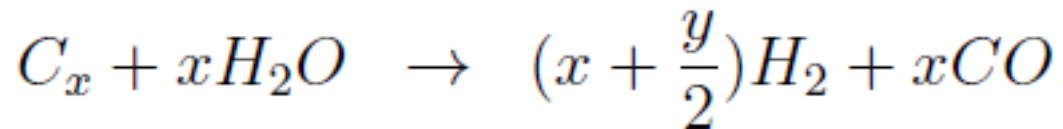
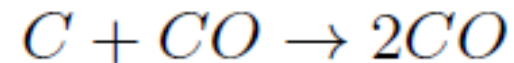
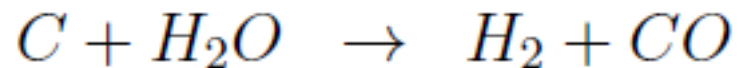
REAZIONI ENDOTERMICHE



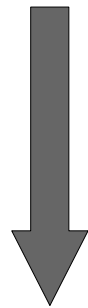
REAZIONI ESOTERMICHE



REAZIONI ENDOTERMICHE



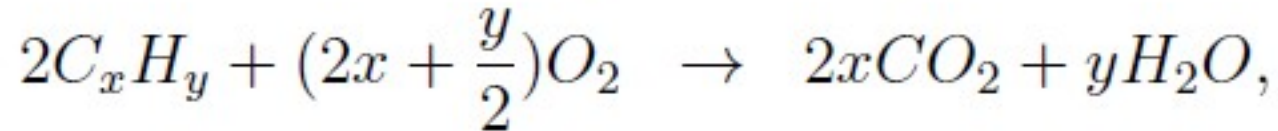
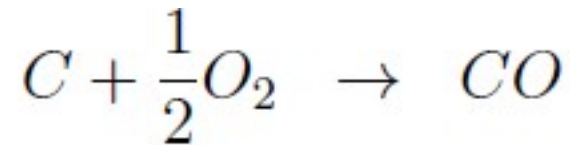
COMBUSTIBILE



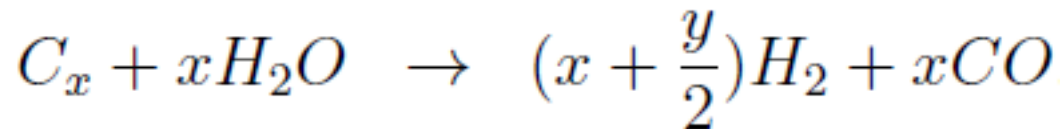
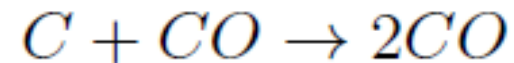
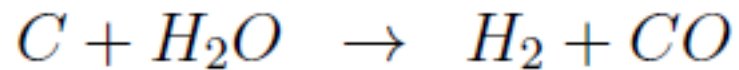
SYNGAS



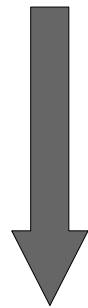
REAZIONI ESOTERMICHE



REAZIONI ENDOTERMICHE



COMBUSTIBILE



SYNGAS



BILANCIO DI MASSA

CDR: 800 t/giorno
CARBONE: 30 t/giorno

SYNGAS: 840 t/giorno

EMISSIONI: 840 t/giorno

O₂: 0,5 t/giorno

Waste(Coke and limestone)

Product gas

Free board
(Gas reforming zone)

Third tuyere

Gasifying bed
(Drying and pyrolysis zone)

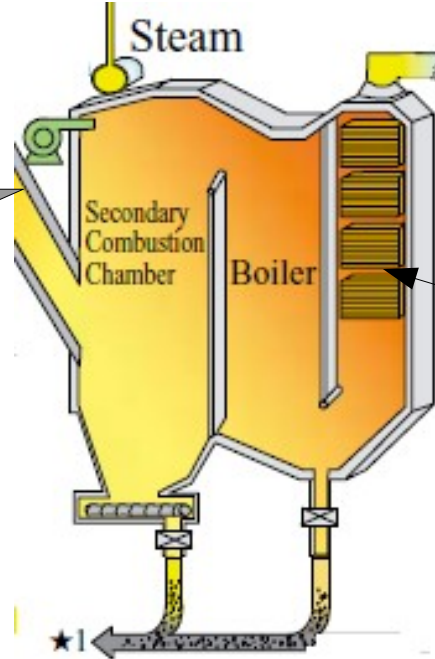
Secondary tuyere

Coke bed
(High temp.oxidation and melting zone)

Main tuyere

Molten slag basin

Slag and metal



**AMMONIACA,
BICARBONATO**

**GRANULATO:
66 t/giorno**

**FANGHI, SOLFATI,
SALE INDUSTRIALE:
44 t/giorno**



SYNGAS



CHAR: CO, CH₄, H₂



**TAR: idrocarburi aromatici di tipo catramoso,
CO₂ e nanoparticolato**

-Potere calorifico del SYNGAS: 8.400 kJ/m³

-Potere calorifico del METANO: 20.000 kJ/m³

SYNGAS



CHAR: CO, CH₄, H₂

TAR: idrocarburi aromatici di tipo catramoso, CO₂ e nanoparticolato

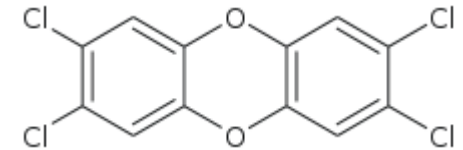
-Potere calorifico del SYNGAS: 8.400 kJ/m³

-Potere calorifico del METANO: 20.000 kJ/m³

PRINCIPALI INQUINANTI:

SO_x, NO_x, FURANI, DIOSSINE (300 mg/anno),
NANOPARTICOLATO.

TOSSICITA' DELLA DIOSSINA:
140*10⁻¹² g



2,3,7,8-tetraclorodibenzo-p-diossina

PM 0,1>: particelle di diametro
minore di 100 nm

