

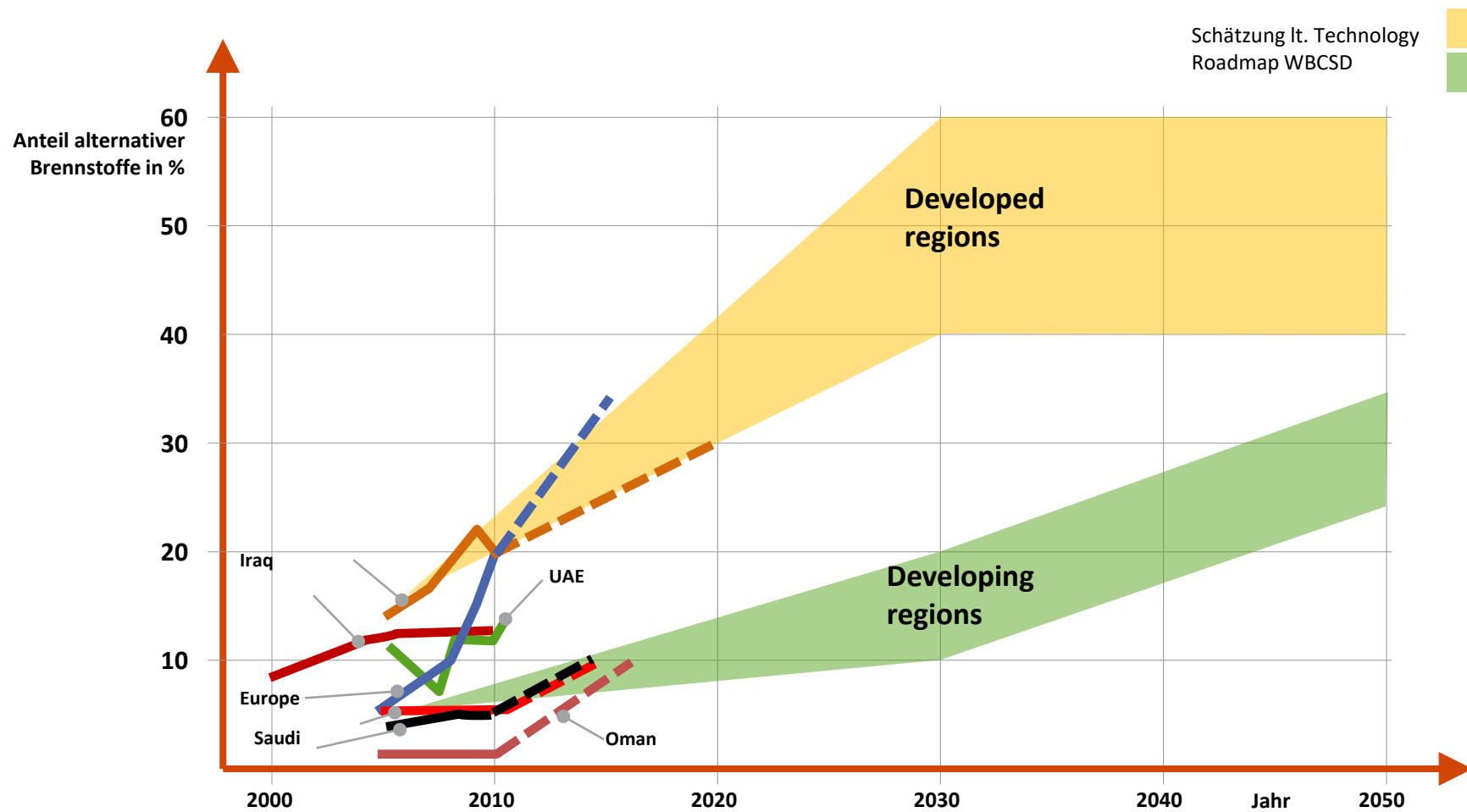
WE CONVEY QUALITY

AUMUND Solutions for Alternative Fuels



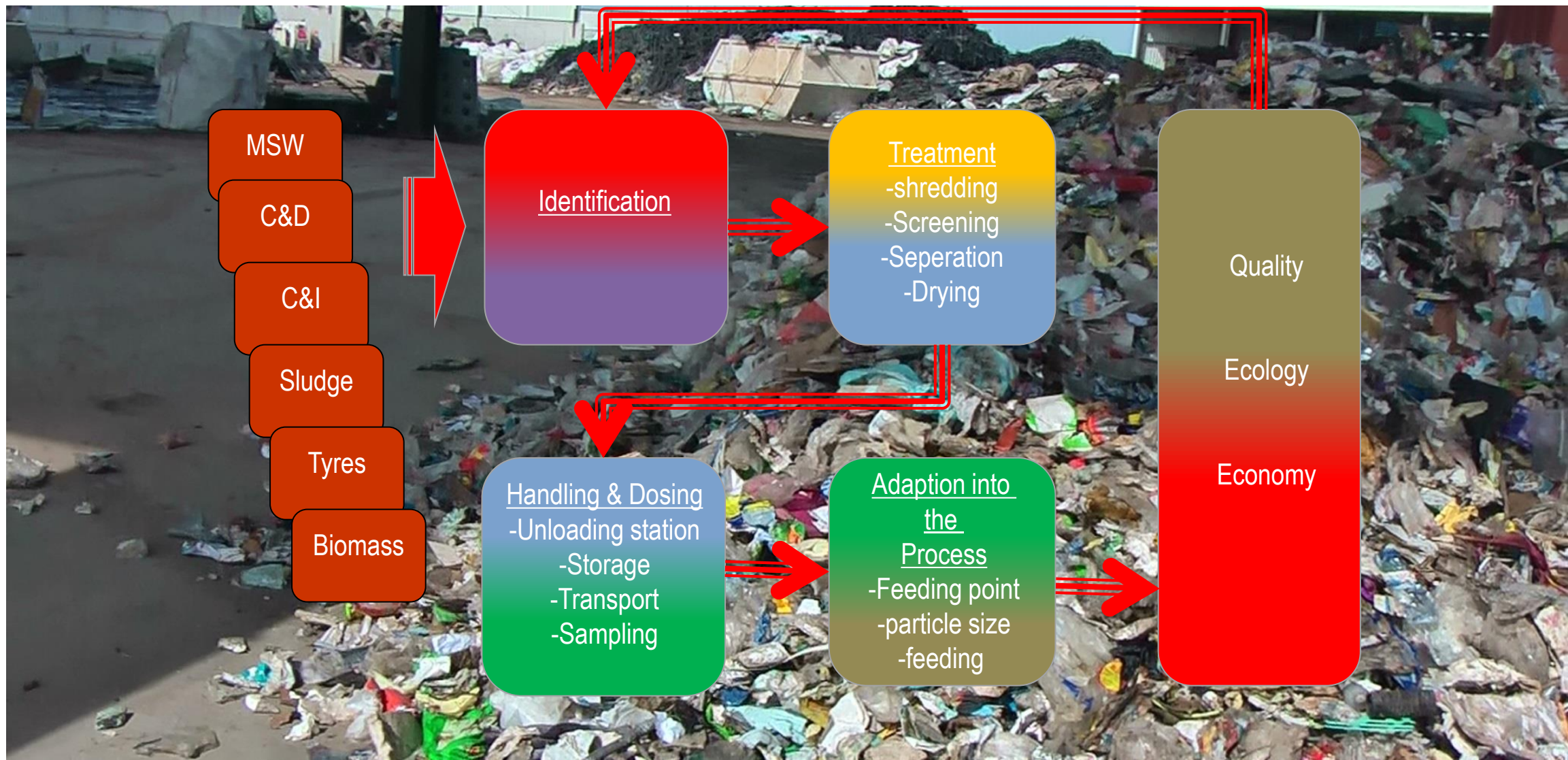
Aumund Day Iraq

Use of secondary fuel

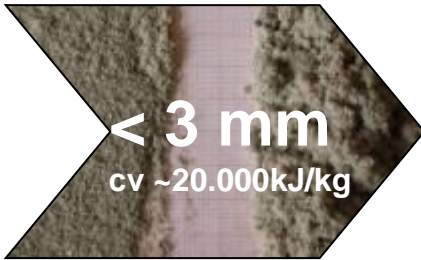


- RDF = Refused Derived Fuel
- WDF =Waste Derived Fuel
- BPG = Brennstoff aus Produktspezifischen Gewerbeabfällen
- SBS = Sekundär Brennstoffe
- CDR = Combustible Derivado de Residuos
- CF = ClimaFuel
- EBS = ErsatzBrennStoffe
- EF = Engineered Fuel
- LCF = Low Carbon Fuel
- PEF = Process Engineered Fuel
- AFR = Alternative Fuels and Raw material
- TDF =Tire derived fuel
- SRF = Solid Recovered Fuel
- CSR = Combustibles Solides de Recuperation
- MBM = Meat and Bone Meal
- SPA =Suszarnia Paliw Alternatywnych
- PIRF =Post Industrial Residual Fraction
- RLF =Recycled Liquid Fuel
- Subcoal = pulvericed RDF
- MSW = Municipal solid waste
- MRF = Municipal Recovery Facility
- WDF = Waste derifed fuel

From Waste to Energy



From Waste to Energy



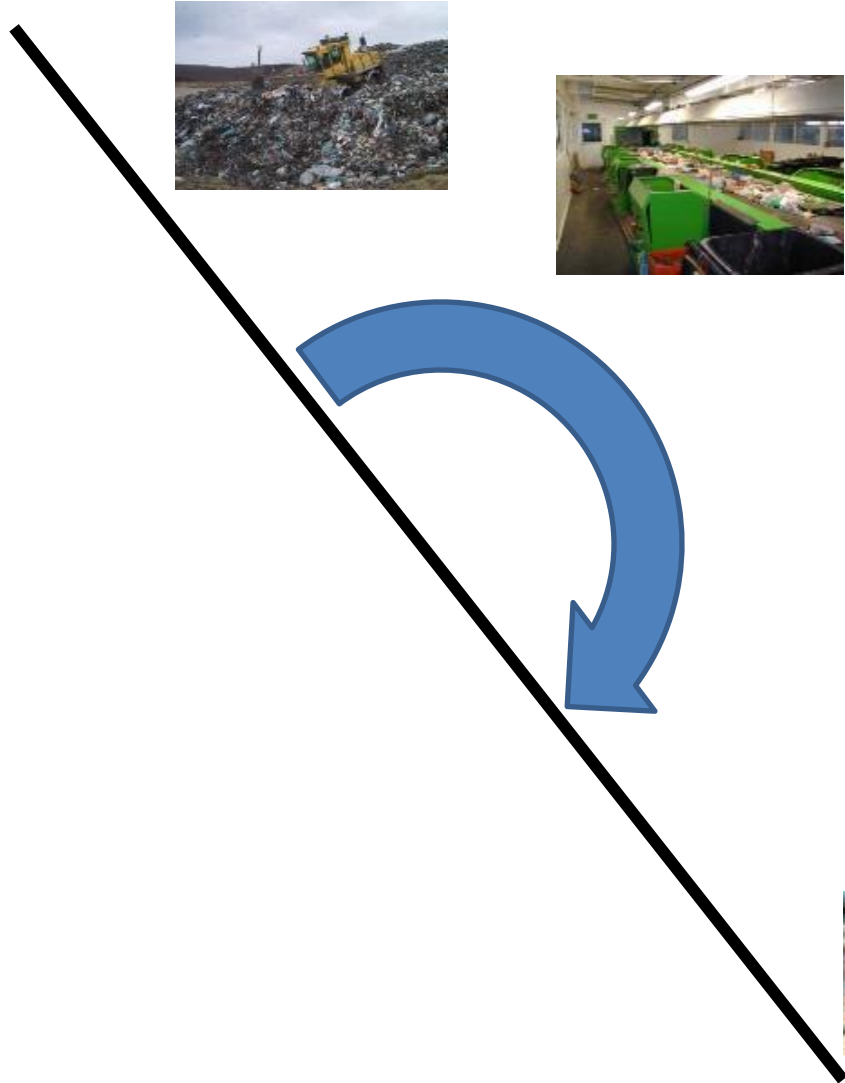
Process philosophy

Handling &
Feeding



Treatment &
Handling





Treatment & Handling



Industrial waste



MSW Municipal Solid Waste



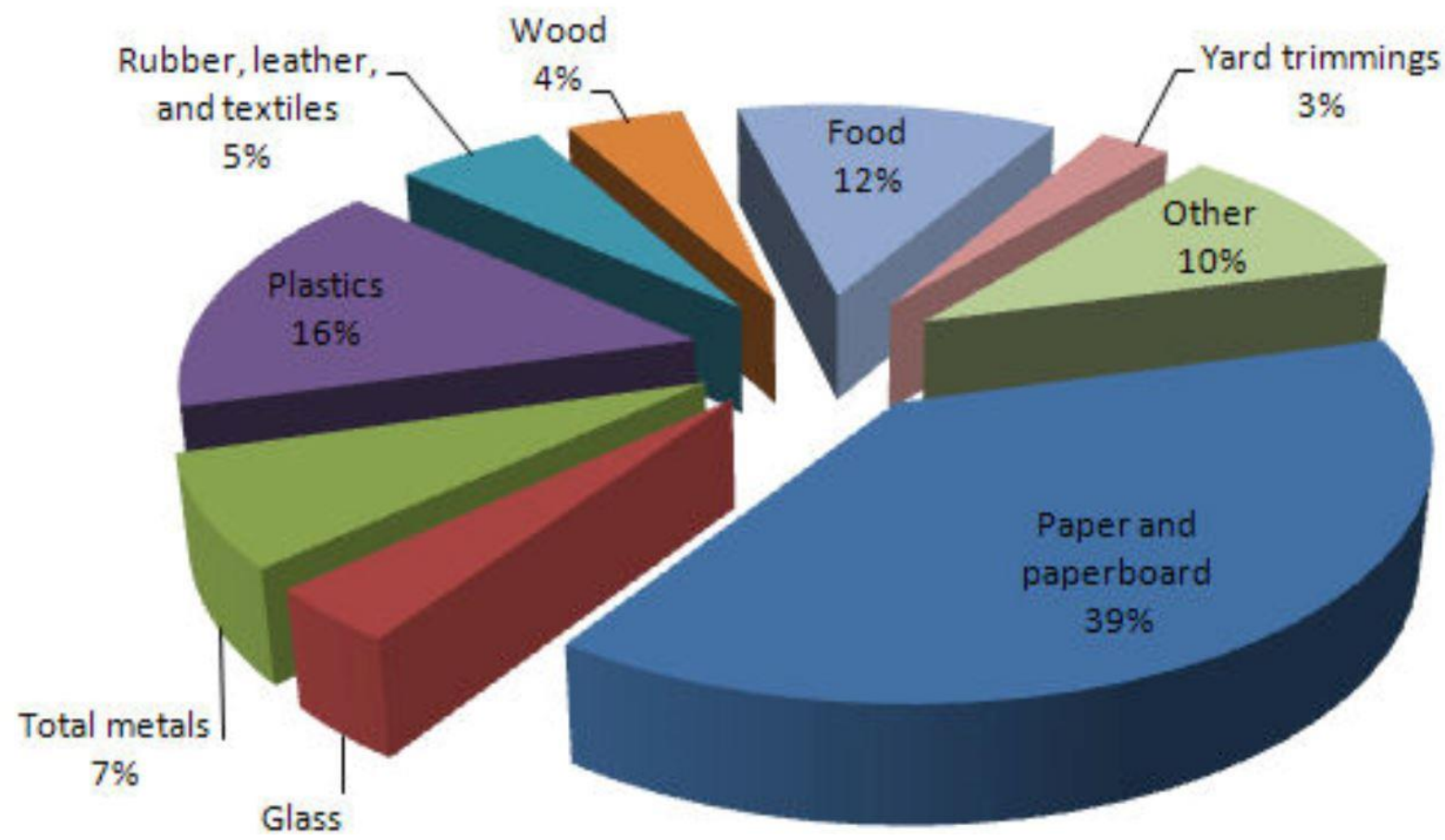
C&D Construction & Demolition Waste



Tyres



Possible composition of waste



Treatment & Handling

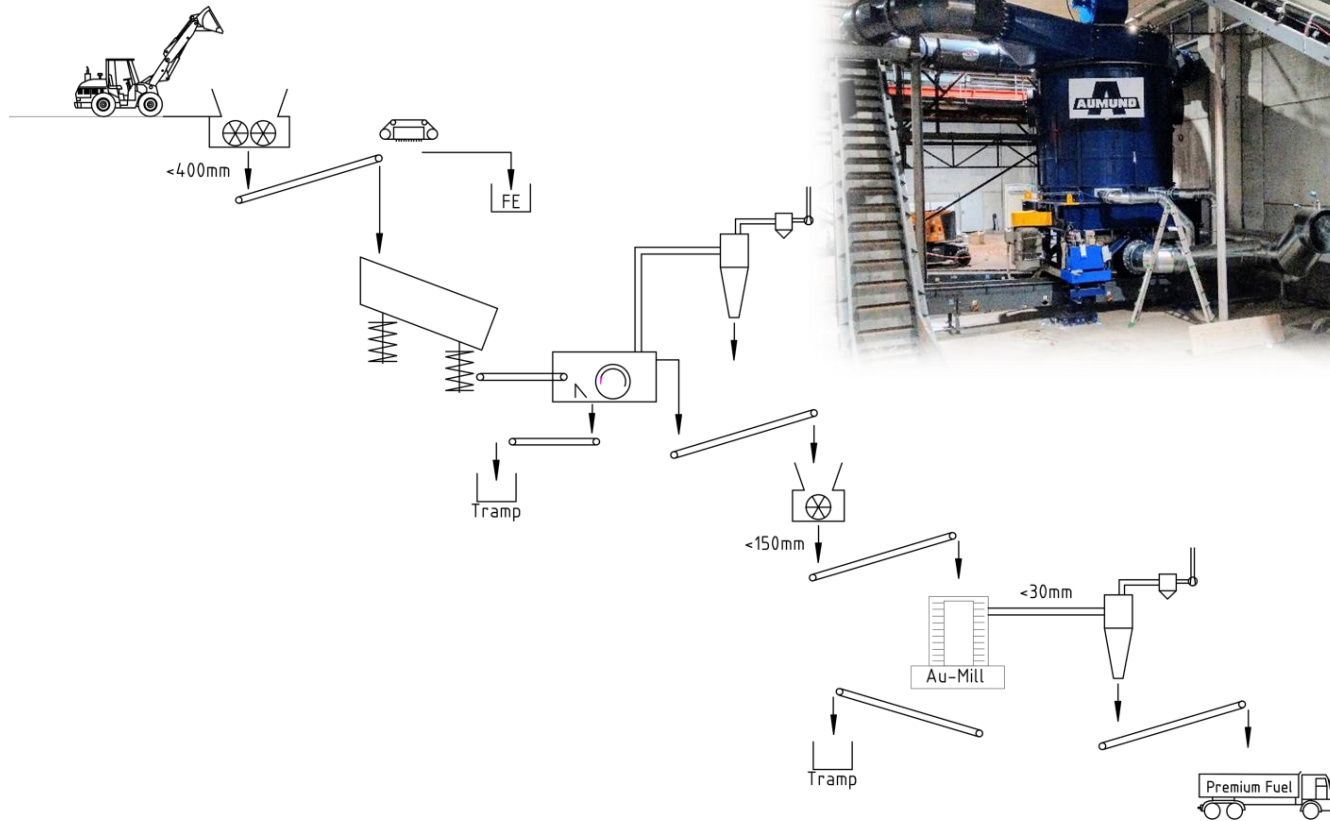


Production line with AuMill for Premium Fuel

Input



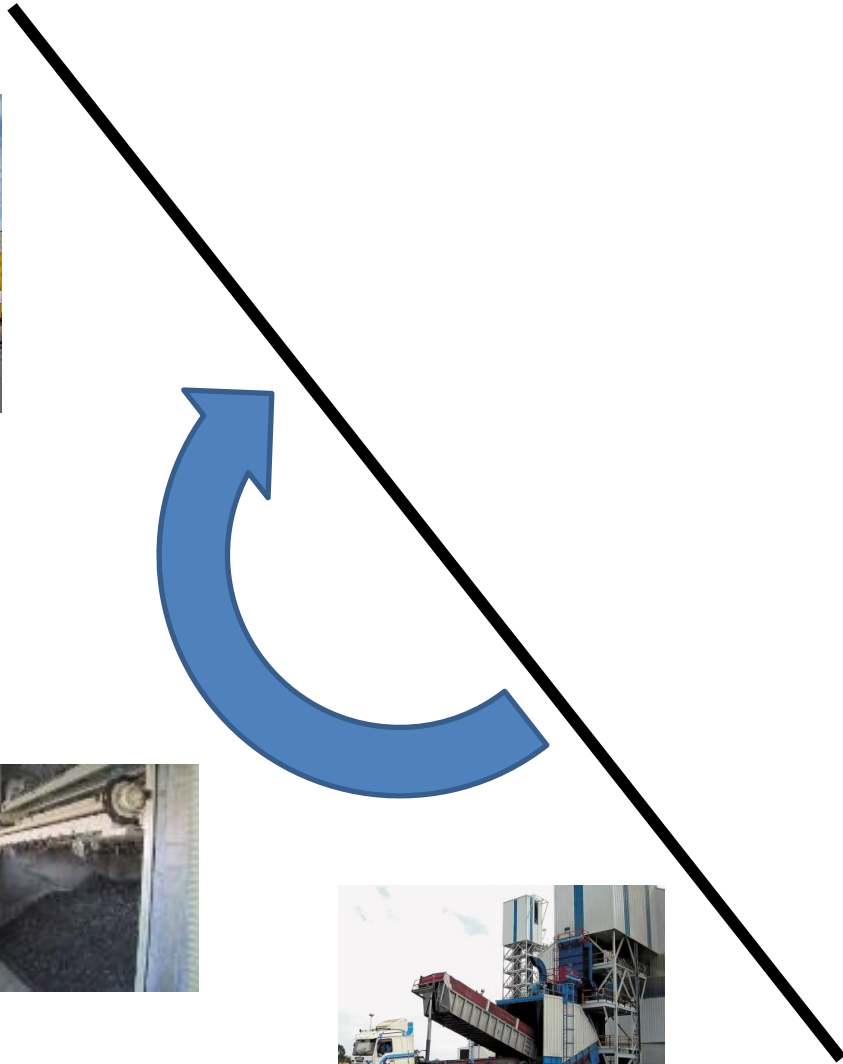
Au-Mill



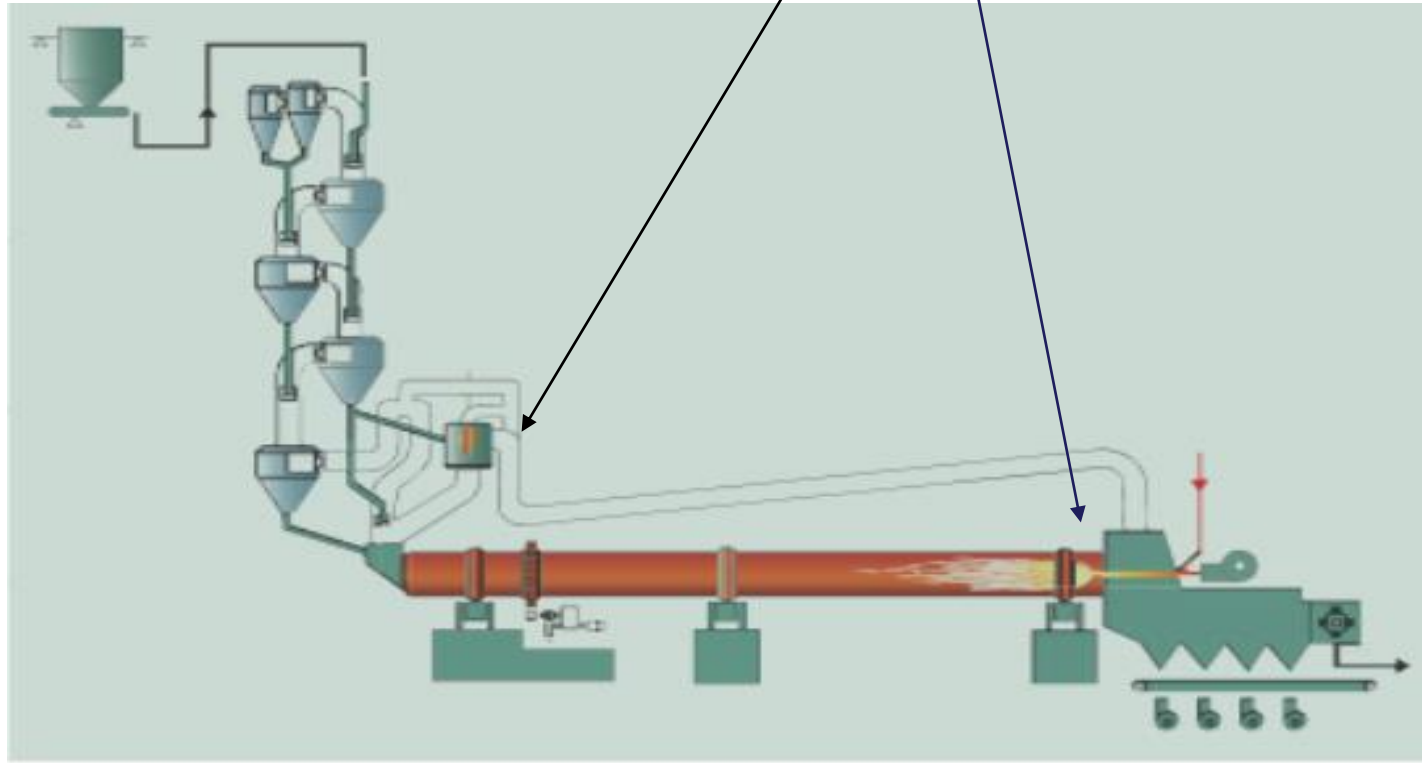
Premium Fuel



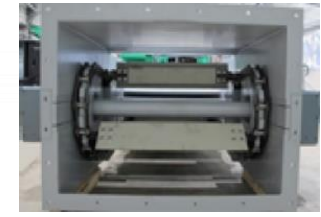
Handling &
Feeding



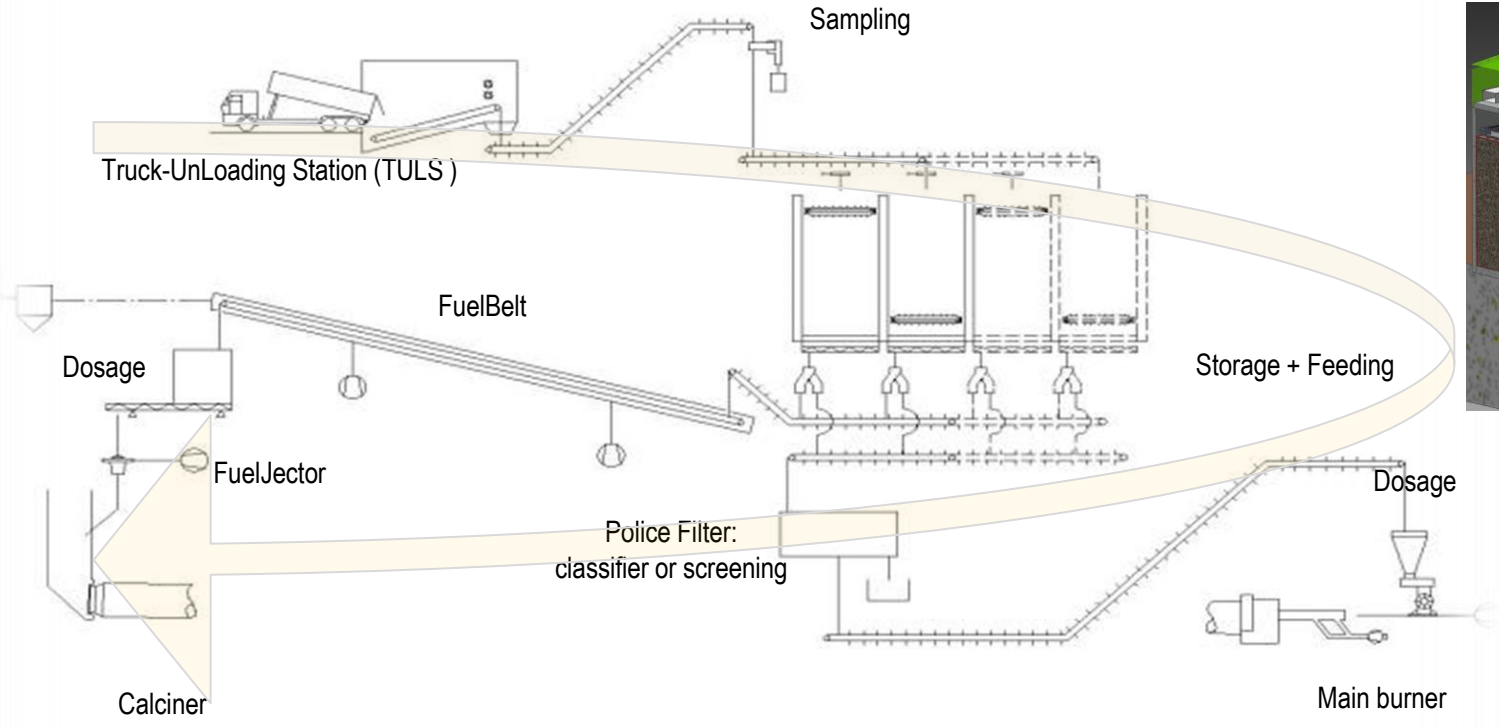
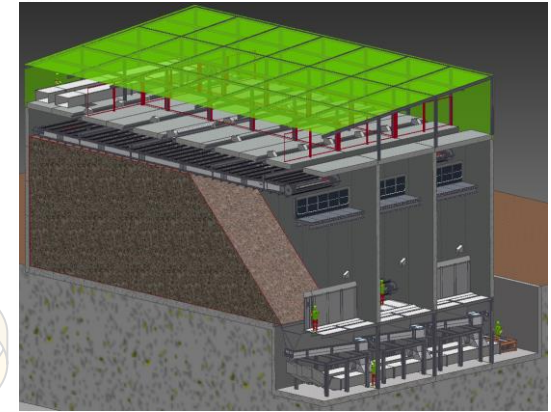
Clinker capacity: 5.000t/d
Primery fuel: Petkoke
Amount of Fuel: 20t/h (60/40%)
Target for TSR: 20-40-80%
(Total Substitution Rate)

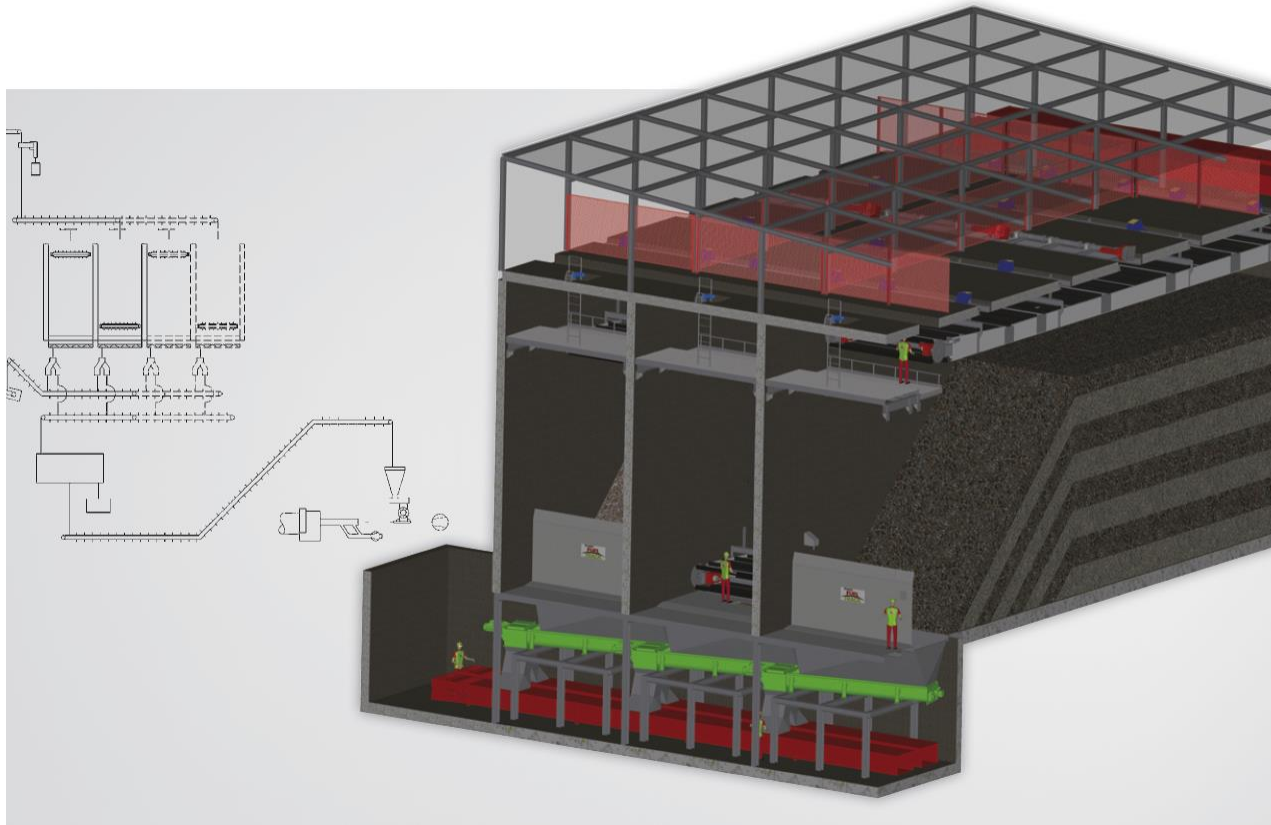


Standardized Material Handling Flow



Handling & Feeding





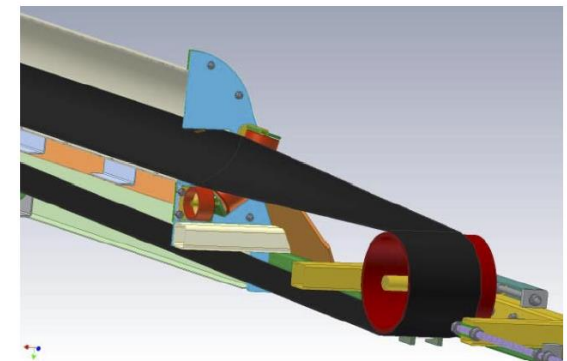
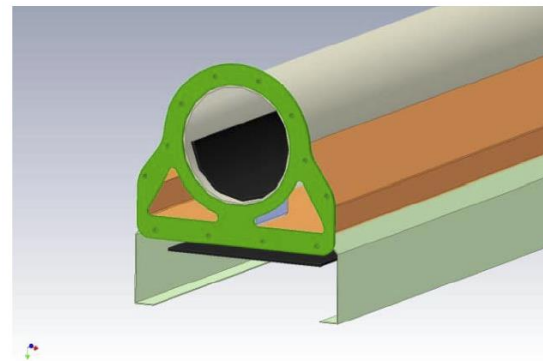


FuelJector

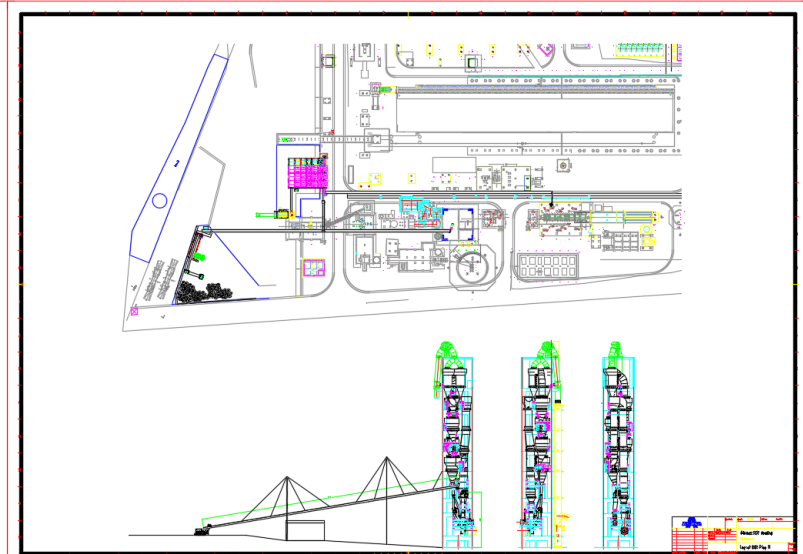
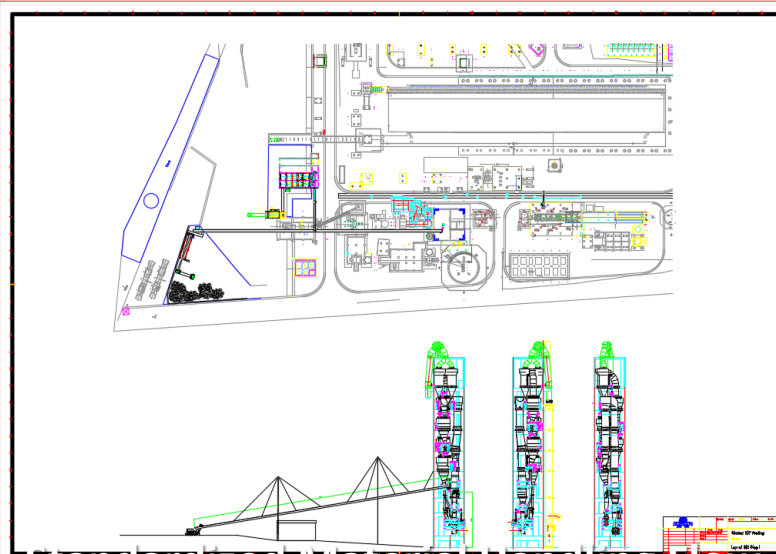
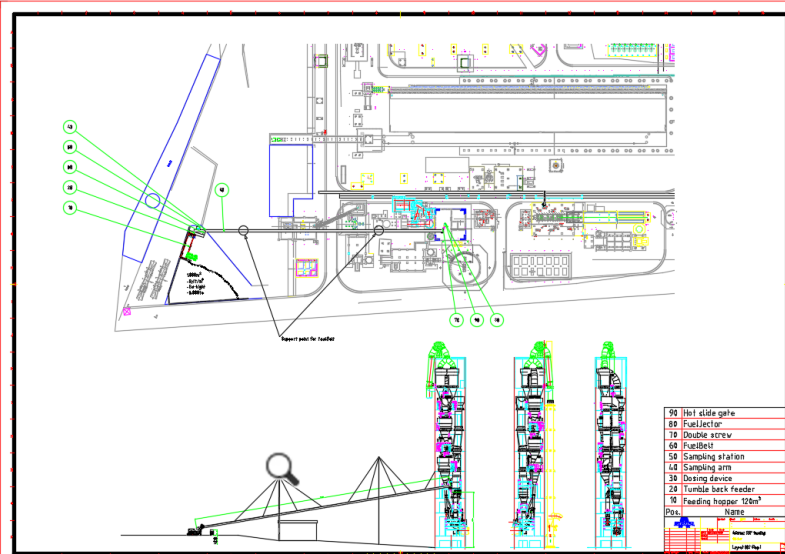
- Guaranteed deacclomeration
- Modern Swirler Technology
- Low Power consumption
- Can Accommodate low RT for Precalciner

Fuel Belt

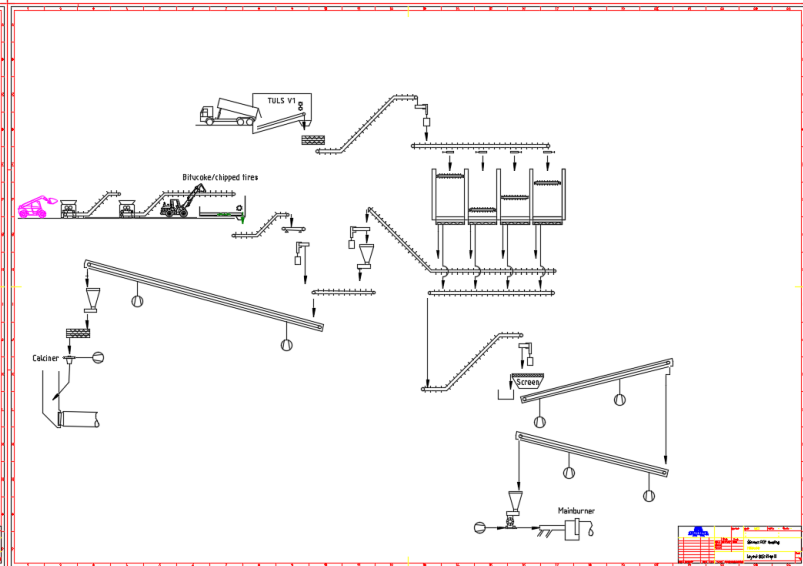
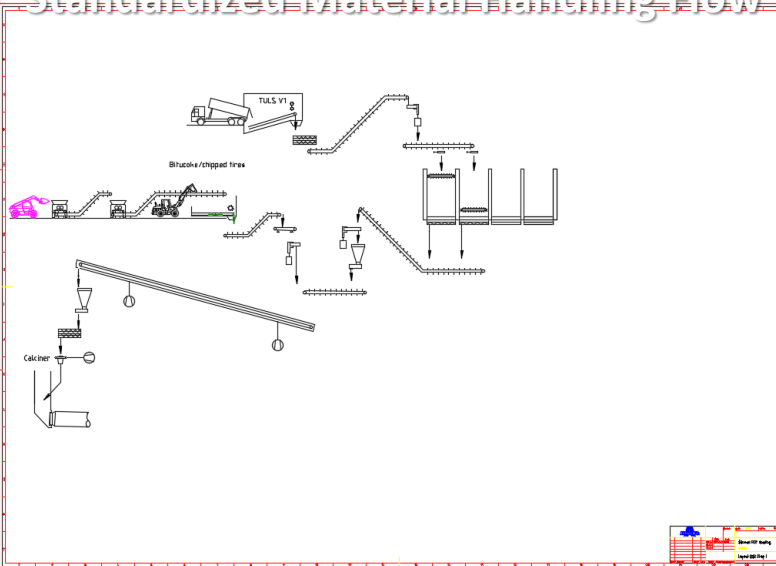
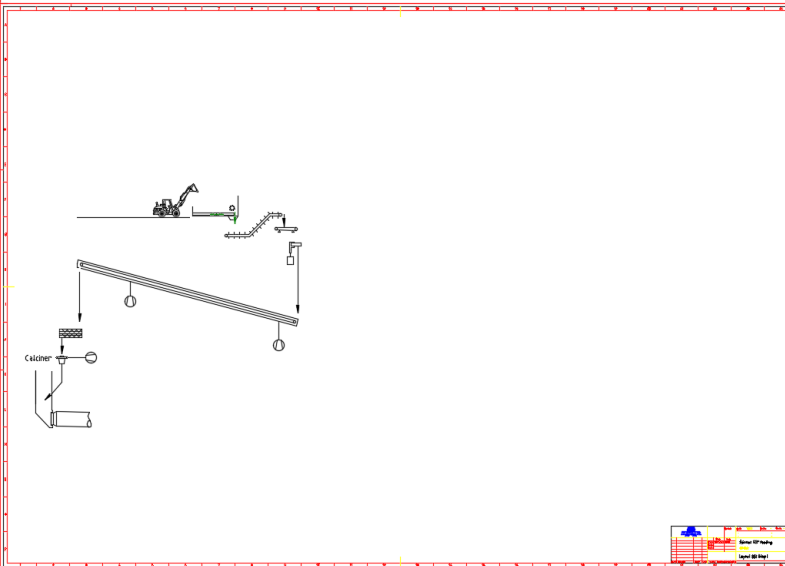
- Creating an efficient conveying of bulk materials over long distances.
- Up to 500 mtrs each set
- Low supports amount as we could have 75 mtrs for each support subject to belt size
- Very low power consumption with 1 kW/10-15 m subject to site and material specification
- Very fast assembly process for site activity
- Very simple maintenance steps due to very low friction factor



Standardized Material Handling Flow - Layout with Modules



Standardized Material Handling Flow



Aumund Questionnaire

WE CONVEY QUALITY



Date: _____

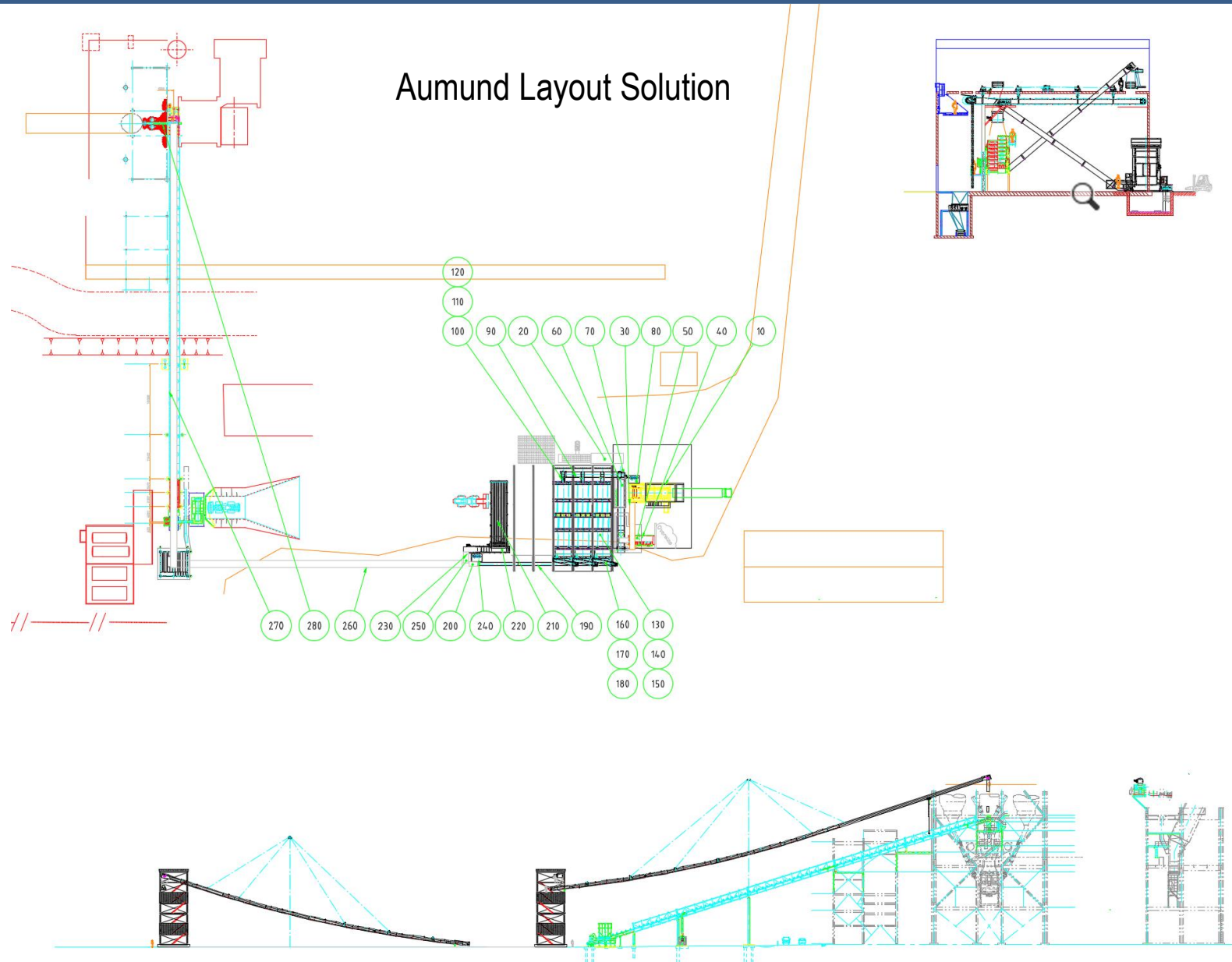
Cement group: Cement Australia
Address: _____

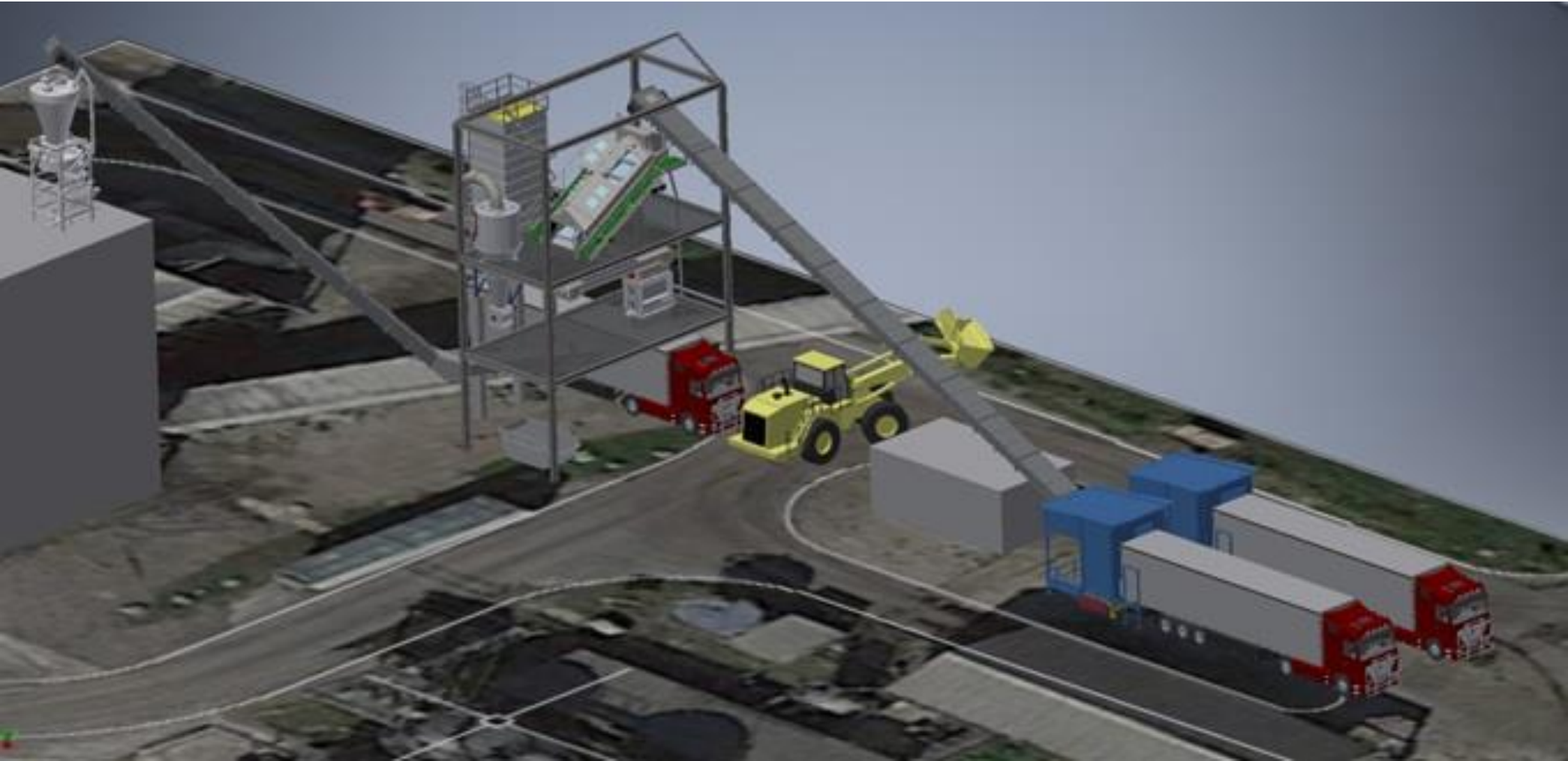
- What kind of process is in operation
 - Dry process pre heater / calciner
 - Lapci Systems
 - Another systems
- Electricity
 - Voltage _____ V
 - Current _____ Hz
- Clinker capacity
 - 5000 t/day
- Primary (fossil) fuel

	th	Mainburner	Calcliner	Price
a. Pulverize	%			\$/t
b. Coal	24 %	100 %	55 %	\$/t
c. Oil / HFO	%	%	%	\$/t
d. Gas	%	%	%	\$/t
- What kind of RDF is already in use?
 - Fluff _____ th _____ %
 - MBM _____ th _____ %
 - Tire (Chips) _____ th _____ %
 - Another type *WOOD CHIPS / TRASH / SLAGS MIX* 10 th _____ %
- What is the intended substitution rate for the first / next stage of expansion?
 - Pre-calciner / pre-heater *52 %* _____ % *TSA FOR TOTAL FUEL*
 - Kiln main burner *X %* _____ %
- For the budget / offer

	Customer	Aumund	Option
Supervision of erection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Co-workers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steelwork	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cabling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
El. cabinet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transport	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cold commissioning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warm commissioning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lifting/Hoisting device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dosing (Type)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Another position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- Remarks:
 - Please take a picture (or screenshot) from the kiln process in the control room!
This is because of the temperature and O2 profile inside the kiln process.
 - DWG drawing from the plant view and side view from the tower and main burner platform are required for Layout's
 - Retention time in the pre calciner (if applicable)

Aumund Layout Solution





Thank you for your attention!



In case of any questions, please contact :

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