



ALTERNATIVE FUEL
STORAGE AND
FEEDING SYSTEM

WA 320
KOMATSU
RDF PLANT

CHLORIDE
BYPASS
SYSTEM

ALTERNATIVE FUEL SOLUTION

Engineering, Procurement and Construction (EPC) services for solid waste processing plants with a complete system of alternative fuel usage.

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ALTERNATIVE FUEL SOLUTION

EPS provides EPC services for solid waste processing plants with a proven technology that meets international standards aiming to reduce fuel costs and minimize environmental impacts by our experienced engineers who specialize in utilizing municipal waste and industrial waste with unique properties as alternative fuels.



**Reduce fuel cost
in production
process**



**Sustainably
reduce waste
to landfill and
environmental
issues in community**



**On-time
projects deliver**
without interruption
to existing process



**Reduce CO₂
emissions²**
by 463,000
Ton of CO₂ per year (*)

*Note : Calculated based on the size of the 50,000 ton/day calciner, using RDF as a substitute fuel for 55% by heat.

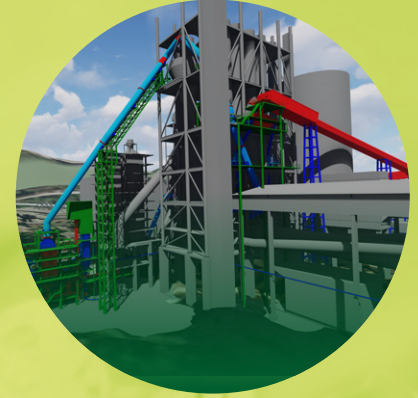
Our Services



Alternative Fuel Storage & Feeding system
EPC service for fuel storage and transportation facilities using CPAC BIM technology



RDF Plant
EPC service for solid waste processing plant to produce Refuse Derived Fuel (RDF) as alternative fuel



Chloride Bypass System
EPC service for the Chloride Bypass system to eliminate excess chloride from the combustion of cement manufacturing process



Additional Services



RDF offtake service
Provide medium or long-term RDF buying contracts



RDF Transportation Services
Provide suitable Vehicles with fully canvas enclosed to eliminate environmental problem throughout the transportation route



Environmental Laboratory Services
Provide services of testing air, water, soil, waste and odor

Solution Package

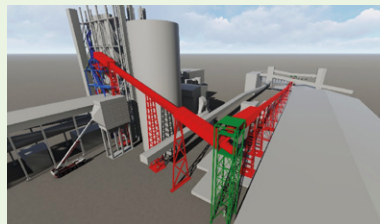
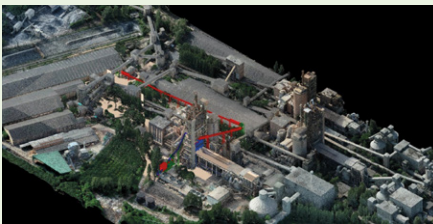
► **Alternative Fuel Storage and Feeding System :** Enhance the continuity of using alternative fuels with Fuel Storage and Feeding System

Scope of Work

- Design and construct alternative fuel storage.
- Design a system layout considering traffic route for convenient and safe operation.
- Provide technical information to obtain related licenses
- Design and construct fire fighting & odor control system
- Design and construct alternative fuel conveying and dosing system

Investment*	1.7 - 3.0	Million USD
Payback Period	3 - 5	Years

**Note: Depends on the characteristics of the fuel and limitations of the system*



► **RDF Plant :** Reduce fuel costs by EPC service for solid waste processing plants to produce RDF

Scope of Work

- Design and construct solid waste processing plants to produce RDF
- Design a system layout considering traffic route for convenient and safe operation.
- Provide technical information to obtain related licenses
- Design and construct fire fighting & odor control system
- RDF supply and off-take service
- Environmental testing and laboratory service
- RDF transportation service

Investment*	1.7 - 12.0	Million USD
Payback Period	5 - 7	Years

**Note: Depends on the characteristics of the fuel and limitations of the system*



Solution Package

► **Chloride Bypass System** : Enhance amount of RDF usage with Chloride bypass system.

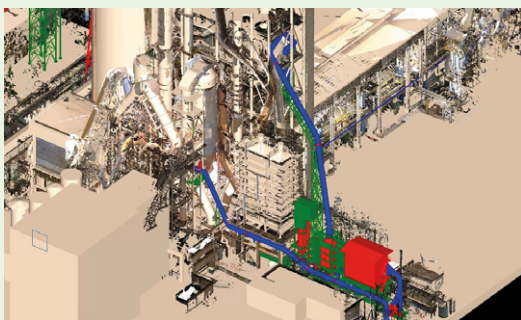
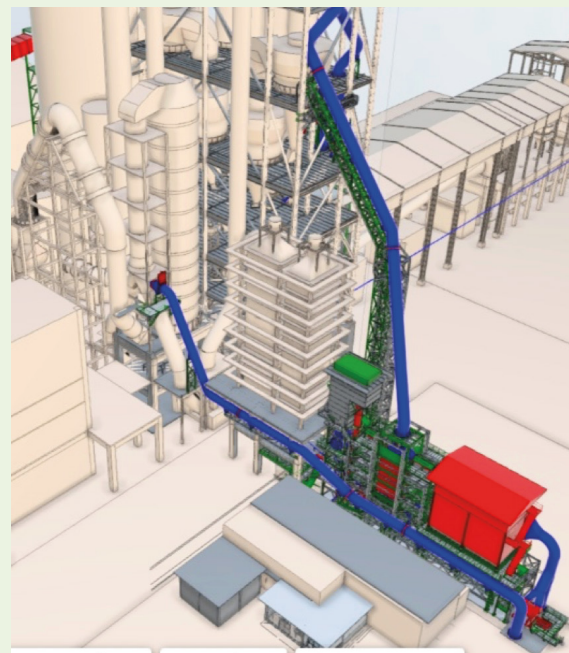
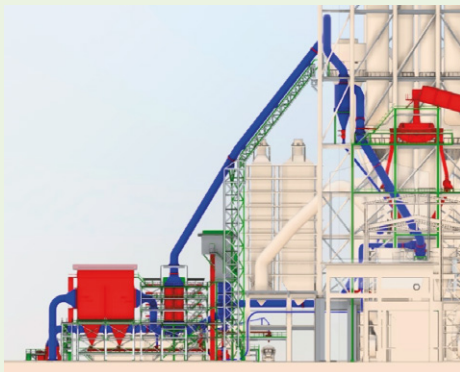
Chloride Bypass System : Eliminate excess Chloride from the combustion of cement manufacturing process. Increase % thermal substitution rate (%TSR) up to 55%, Reduce clogging problem and maintain quality of clinker

Scope of Work

- Design and construct Chloride bypass system with the bypass rate of 12-15%
- Design and construct chloride dust collection storage and conveying system
- Design and construct system to deduce Sulfur Oxide (SOx) emission

Investment*	4.3 - 6.0	Million USD
Payback Period	3 - 5	Years

Note: Depends on the characteristics of the fuel and limitations of the system



Service Level Agreement

This is an estimated offering price, for accuracy it is essential to survey the on-site work area

► Project Reference



Maptaphut ECO Energy Power Plant

Production capacity of RDF 360 tons per day.



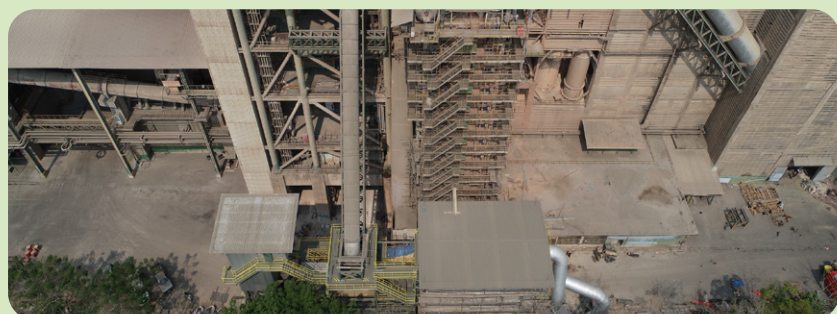
Waste sorting plant/factory from landfills to produce RDF fuel; Pattalung Municipality

Production capacity of RDF 400 tons per day.



Alternative Fuel Storage and Feeding System The Siam Cement (Lampang) Co, Ltd

Chloride Bypass System The Siam Cement (Lampang) Co, Ltd





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