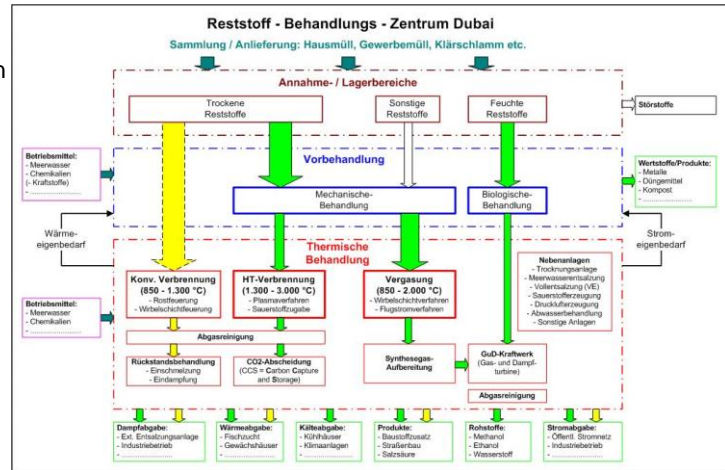


Waste management concept Dubai (United Arab Emirates)

Characteristics:

- Treatment of commercial and construction waste and waste of households
- Observation period: 25 year
- Approx. 18 project sites for logistics and treatment



Waste treatment flowsheet

Scope of Work:

- Development of concepts for the treatment of waste streams
- Recommendation of the treatment technique
- Preliminary planning
- Site selection
- Description of operator models

Description:

At the moment Dubai is going through a phase of tremendous economic growth related to a rapid growth of the population. A consequence of this is a sharp increase of the amount of waste. Nakheel is Dubai's largest property developer and attracts global attention with eye-catching projects like Waterfront, Jebel Ali- Palme, Deira- Palme and the World. Now Nakheel undergoes a transition from being a developer towards a provider of municipal services for its projects.

In this study, opportunities for sustainable resources and waste management should be elicited to establish waste-to-energy technology in Dubai. Key aspects of this study are:

- Form of waste separation and collection
- Alternatives of adequate waste treatment for different waste streams
- Analysis of barriers and pitfalls
- Representation of operator models for the client
- pre-planning of the implementation phase (incl. site selection and time planning)