

Operational management of an existing landfill in Turkey

Project Details

Turkey, Municipal Landfill

Client:

Confidential

Project Budget:

Confidential

Key Staff:

- Piet Wens
- Uda Pannizzo

Duration:

2008-2010

Provided services

- Management training
- Biogas management
- Leachate management
- Supervision of operational works

Introduction

In 2008, the municipality constructed a new landfill with the financial support of a private partner.

Next to supporting the landfill construction, the financial loan foresaw a budget for a 3 year training of the operational landfill management.

Global description

During this period of time, Pollux Consulting assisted the management in the different aspects of landfill operation and management



Delivered Services

Pollux Consulting has performed following services to the management

Off site training on a Belgian landfill.

During 2 weeks, Pollux Consulting trained 3 management staff members at a landfill site in Belgium. All aspects of landfill management were discussed. Next to the theoretical seminars, regular visits to the landfill site were carried out to shown operations in action.

Health and safety plan

In strong cooperation with the management, a realistic health and safety plan was set up to allow safe operations as of day 1.

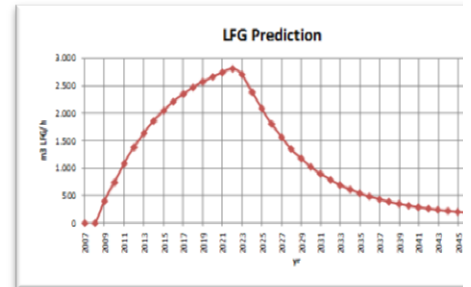
Leachate management

Pollux Consulting delivered a detailed leachate management plan, forecasting leachate production and lining up the different technological possibilities for leachate treatment in relation to the applicable discharge limits. Furthermore, the different applicable capex and opex values for the different technologies were calculated.

Based on the management plan by Pollux, the municipality decided to go for an on site treatment facility.

Biogas management

Biogas emission can substantially contribute to climate change. Furthermore, it offers an opportunity for the generation of renewable energy through valorisation via electricity production in biogas engines.



Pollux Consulting made a detailed analysis of the biogas production in time, based on the available waste data (amount and composition), using in house developed software. Based on these calculations a financial plan was developed using applicable capex and opex for a flare and biogas engine. On the revenue side, income from carbon emission rights (voluntary market) and electricity prices were taken into account.

Based on this management plan, the municipality decided to go for the installation on biogas engines on he landfill.