

## Mamak Landfill Gas



|                        |   |
|------------------------|---|
| <b>Technology:</b>     | Landfill gas capture and power generation |
| <b>Country:</b>        | Turkey                                    |
| <b>Standard:</b>       | <b>Gold Standard VERs</b>                 |
| <b>Status:</b>         | Issued                                    |
| <b>Physical status</b> | Operational                               |
| <b>Vintage:</b>        | 2008, 2009                                |

### Project Description

ITC Invest Trading & Consulting A.G. developed the Mamak Landfill gas recovery and Gas Utilisation Project. The Mamak landfill is located in the city of Ankara. The project consists in the collection of landfill gas, installation of gas engines with a total capacity of 40 MW and construction of a bio-digester for treatment of organic waste. Biogas from the bio-digester will also be used for electricity generation.

### Secondary benefits

- Avoidance of harmful emissions, bad odour and leakage in underground waters
- Improved soil conditions and creation of a green area with 4500 trees
- Job opportunities for 400 local people some of whom were previously scavenging the wastes for living
- Installation of a waste water treatment plant
- Excess heat used to warm nearby greenhouses where tomatoes are cultivated

### Standard

This project is registered under the Gold Standard (GS) VER. The Gold standard requires additional social & environmental project benefits such as, Creating jobs & enhancing local economies. It is Backed by 50 NGO's among which the WWF.

**Project no. GS 440**



### Baseline Methodology

The emissions reductions were calculated using the UNFCCC consolidated methodology ACM0001, version 8. The project was validated and verified by the accredited designated operational (DOE) entity TÜV SÜD.

### Additionality

The additionality is demonstrated using the "CDM Tool for Additionality". The barrier analysis method was chosen.

### Why we purchased it?

It is the first GS landfill gas project in Turkey. This project has very clear sustainability benefits and was widely praised by the World Bank and the NGO community. The Gold Standard ensures the highest quality assurance label on the voluntary carbon market. It ensures that the project contributes to sustainable development and is fully accepted by stakeholders.

#### Emma ALFONSI

☎ +41 229 18 3156  
✉ emma.alfonsi@rwe.com

#### Bjorn Struck

☎ +41 229 18 3442  
✉ bjorn.struck@rwe.com