6 CLEAN WATER AND SANITATION

11 SUSTAINABLE CITIES AND COMMUNITIES

13 CLIMATE ACTION

61,769

SAVED EMISSIONS
TONS CO2 EQ /YEAR

Methane Gas Capture and Electricity Production at Kubratovo Wastewater Treatment Plant, Sofia, Bulgaria

Bulgarien

FOKUS ZUKUNFT

PROJECT-ID: 4238 FZ-ID: 2209

Methane Gas Capture and Electricity Production at Kubratovo Wastewater Treatment Plant, Sofia, Bulgaria

Energetic use of sewage sludge

The methane produced at the Kubratovo wastewater treatment plant is be captured in common methane tanks, which serves as a buffer, and then fed to the newly installed CHP gas engines for electricity and heat generation, which in turn replaces the plant's electricity purchase from the grid and diesel fuel consumption. The main purpose of the project is to transform the existing low-tech sludge treatment process at Kubratovo into a modern, advanced process that matches the best sludge treatment processes available in Western Europe.

This conversion will have a significant environmental impact by drastically reducing the existing methane gas emissions at the plant and at the same time reducing the amount of sludge to be transported by up to 50%, which will also reduce the greenhouse gas emissions caused by transport (which are not included in the greenhouse gas emission reduction calculations).

For more information please click here.

Overview of the project data:

61,769
SAVED EMISSIONS
TONS CO2 EQ /YEAR

432,380
SAVED EMISSIONS
TONS CO2 EQ TOTAL

RINA
VALIDATOR

CERTIFICATE STANDARD

Gold Standard®

FOKUS ZUKUNFT

PROJECT-ID: 4238 FZ-ID: 2209

Methane Gas Capture and Electricity Production at Kubratovo Wastewater Treatment Plant, Sofia, Bulgaria

The project contributes to the following sustainability goals:

Clean water and sanitation:
The project addresses sustainable energy use of wastewater.

Sustainable cities and communities:
The municipal wastewater treatment plant on the territory of the Sofia municipality recycles a large part of the methane emissions produced with biogas recovery.

Climate action:
The project activity will reduce the release of CH_4 from open anaerobic sludge tanks and drying beds.

PROJECT-ID: 4238 FZ-ID: 2209

Source of the project image: https://pixabay.com/de/photos/kl%c3%a4ranlage-abwasser-kl%c3%a4rwerk-2224933/