

# Building sanitation infrastructure: **HomeBiogas and Salvadorian Authority of Water Install Innovative Bio-toilets**



**Transforming an area with limited access to traditional sanitation and risk of disease transmission to a better create a better quality of life and overall health.**

HomeBiogas has installed Bio-toilets in rural areas in El Salvador that do not have infrastructure sufficient for toilets. The HomeBiogas Bio-toilet looks like a regular toilet, flushes like a regular toilet, but does not require a sewage connection or a water pipe. The waste deposited into the Bio-toilet is turned into renewable energy, biogas, which is used for cooking instead of cooking on wood and open fire. Recently, HomeBiogas and the Salvadorian Authority of water (ASA) have installed dozens of HomeBiogas Bio-toilets in rural homes in Suchitoto in Cuscatlán Department and Zaragoza, La Libertad Department as a community infrastructure building project. Salvadoran Authority of Water (ASA), who are in charge of improving water resources and developing projects to stop contaminating aquifers, along with Cecsca, which are improving sanitation and preventing water contamination, initiated the project.

When ASA was looking for the best way to reduce contamination and improve sanitation in rural homes in El Salvador, they chose the HomeBiogas Bio-Toilets as the most suitable solution.

“The installation of HomeBiogas’ Bio-Toilets have already brought significant improvement to El Salvadorian people who are enjoying improved sanitation conditions, while no more insects and roaches are surrounding the toilet area,” says Ileana Paula, HomeBiogas’ distributor in El Salvador. “An additional vast advantage is that these families can now cook on biogas which is clean energy and do not need to cook on open fire which causes breathing problems. HomeBiogas is happy to work with ASA and Cecsca on this life-changing project.”



# Supplying hundreds of waste-to energy systems to schools in El Salvador

- HomeBiogas will be supplying HomeBiogas systems to **600 schools** in El Salvador in order to provide **basic sanitation** and **renewable energy**.
- This will provide **national sanitation solutions** in hundreds of El-Salvador schools with limited infrastructure.
- The systems include HomeBiogas Bio-toilets, which will **convert human waste into clean cooking gas**.
- While flush toilets use an average of **9 liters per flush**, the HomeBiogas Bio-Toilet only requires **1.2 liters**, meaning that these toilets can save up to **80% of water with every flush**.
- The Bio-toilets are **off-grid** and do not require a sewerage connection, thus **preventing groundwater contamination**.



On-site treatment of waste, no human contact involved in treatment process



Completely off-grid, no infrastructure



Water saving: less than 1.2 L per flush (saving 40,000 liters of water per unit a year)



Eliminates environmental contamination (water, air and soil)



Generates clean cooking gas



Reduces x amount of carbon emissions per unit yearly.

