

## Environmental Protection And Natural Resources Management, & Organic Farming In Nepal

**Authors :** Megha Raj Regmi

**Abstract :** Nepalese topography has the largest variations in altitude in the world, ranging from 60 metre to 8848 metre above the mean sea level, Nepal is endowed with second position in water resources in the world, and is comprised of more than 6,000 rivers and rivulets, however, it faces serious water crunch and water pollution : deterioration of ecosystem. Due to climate change reasons, in all the places of Nepal ground water table has been substantially depleted and with its impact many people are suffering seriously to fetch water for daily use. This research work basically deals with twenty-two biogas toilets constructed in peri-urban areas of Nepal in two research centres for organic agriculture. The work has used appropriate technology and studied their performances in the context of Nepal, based on the regular monitoring. The work found that the biogas energy producing toilet have a clear advantage in the gas recovery for domestic purpose and a sustainable mitigation measure for climate change and organic farming. This paper describes the climate change issues of Nepal; similarly it deals with the potential threats of climate change to water supply, agriculture, food security, temperature increase, and adaptation measures. This paper also deals in depth analysis of the different types of successful biogas energy production technology, organic farming, sustainable sanitation and health aspects from the twenty two biogas energy units constructed in different altitudes of Nepal.

**Keywords :** environmental protection, biomass energy, climate change, organic farming

**Conference Title :** ICEEB 2025 : International Conference on Ecology and Environmental Biology

**Conference Location :** Batumi, Georgia

**Conference Dates :** May 29-30, 2025