



CSIR Energy Centre

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ATTENTION: To whom it may concern

This is to confirm that CSIR Energy Centre has appointed Nabla H Groundwater Specialist PTY Ltd. for the provision of expert services in conducting a ground water impact assessment for the CSIR proposed Biogas plant project.

An Energy-Autonomous program has been initiated to make the CSIR's main campus in Pretoria energy autonomous in a 5- to 8-year time horizon by supplying its energy from the three primary energy sources: solar, wind and biogas. The power generators will be combined with electricity and heat storage, integration of electric and hydrogen-driven vehicles, power-to-liquids and power-to-gas processes, demand-side management and energy-efficiency measures. This program will stand as a real-world research platform for designing and operating a primarily renewables-based energy system at the lowest possible cost in R/kWh. One part of the program is the biogas plant on CSIR campus which will have a CHP facility where heat energy will also be produced and stored onsite.

CSIR plans to construct a biogas power plant with a capacity to meet the campus energy requirements. As part of the EIA requirements CSIR has to perform specialist studies which include the ground water assessment. The assessment will include an analysis of existing boreholes to determine whether there is sufficient water available and what the impacts would be. There are three sites under consideration, all close together and within the CSIR Pretoria property boundary which will need to be assessed. The project will reduce waste and carbon dioxide emissions. May you kindly assist Nabla H Groundwater Specialist PTY Ltd. with any information they may require in conducting this study.

Yours faithfully,

Sengiphile Simelane
CSIR – Energy Autonomous Campus Programme Manager