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පරිසර අමාත්‍යාංශය

Sri Lanka Climate Fund (Pvt) Ltd

Ministry of Environment



"සොබාදම් පියාස", අංක 416/සී/1, රොබට් ගුණවර්ධන මාවත, බත්තරමුල්ල, ශ්‍රී ලංකාව.
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ඔබේ අංකය:

දිනය : 2024.03.28

28th March 2024
Managing Director
Spectra Industries Lanka (Pvt) Ltd,
Mahakeliya,
Kurunegala

Dear Sir,

Carbon Dioxide Savings from Spectra Biomass Fired Water Heater

Based on the results of the performance evaluation of Spectra Biomass Fired Water Heater done by Sri Lanka Sustainable Energy Authority, Sri Lanka Climate Fund (Pvt) Ltd has calculated Carbon Dioxide saving from Spectra Biomass Fired Water Heater when using it as an alternative to LP Gas and Electricity. The results of the calculation are given below.

(The below values are for heating 70 liters of water from 27 degrees Celsius to 100 degrees Celsius)

Previous source	Energy	CO ₂ Saving per 70 liters
LP Gas		2.09 kg
Electricity		2.7 kg

Based on the above calculation, the CO₂ savings achieved when heating 27 degrees Celsius water to 100 degrees Celsius per day are provided below. This estimation is based on the assumption of using 700 liters of water daily.

Previous source	Energy	CO ₂ Saving per day	CO ₂ Saving per month	CO ₂ Saving per year
LP Gas		20.9 kg	627 kg	7,524 kg
Electricity		27 kg	810 kg	9,720 kg

Thanking you.
Yours faithfully,

.....
Eng. G A M C Ariyathilaka
Project Specialist