

To: Lisa Bova-Hiatt, Interim Chief Executive Officer of NYCHA  
CC: Vlada Kenniff, Senior Vice President for Sustainability in NYCHA  
From: EcoEssentials Inc: Nusayba Ahmed, Kymani Beckford, Fernando Cielo, Raeesah Iram  
Date: May 2nd, 2023  
Subject: Forest Housing Project, Bronx NY

Our company, EcoEssentials, combines computer science and mechanical engineering to create energy-efficient and sustainable devices that have a positive impact on the environment. With a track record of creating innovative products such as energy-efficient light bulbs and smart power strips, we are now developing a smart thermostat that optimizes energy usage and can be controlled remotely. Our solutions leverage technology to benefit both the environment and our customers, promoting a more sustainable future. We are pursuing permission to use the Forest Housing Project in the Bronx in order to test our smart thermostat, the SmartHeat. This product will benefit the community by meeting their need for a regulated heating and cooling system while being environmentally sustainable.

The effects of climate change can no longer be ignored, as the over consumption of electricity leads to more fossil fuels being used to get more energy, which leaves a lot of greenhouse gasses behind. These gasses are the reason the earth is experiencing extreme weather changes, tides rising from glaciers melting, and affecting the growth of food. Especially from cities like New York, its large population constantly uses electricity for the buildings and households. However, by renovating buildings to reduce the over usage of electricity, such as installing smart thermostats. These smart thermostats would be connected to a HVAC system that is a cooling and heating unit that is powered by electricity. Being able to detect people's presence and automatically turn off, if no one is home to help save electricity. Simple ways like this are a step to reduce climate change.

When this thermostat is created, it will first be put into the testing phase to ensure that the product works the way it was intended. Testing will be done by distributing the thermostat to the Forest Housing Project in Bronx, NY. We will ensure that there is an experimental group of buildings with other types of thermostats to compare our control group thermostats with to ensure our data is unbiased and the most accurate. We also plan on working with both the New York State Energy Research and Development Authority and the New York City Housing Authority to make sure our product follows our mission of working towards an energy sufficient future. Since the buildings we are seeking are owned by the NYCHA, we will be working with them first to ensure we have permissions for our testing. If our testing proves that our product is sufficient for consumer use, we will start advertising to our target audience we currently feel would benefit most from our thermostat, which would be in commercial and residential buildings within populated cities such as New York City.

Our company values dedication and hard work, and we will be putting our skills to good use when testing our thermostat. The climate crisis is getting worse, but we can improve our conditions by prioritizing the use of renewable energy and learning to effectively save energy. We are looking forward to testing our product so that we can ensure that our SmartHeat is optimal for its desired functionality, and therefore move to the next step of distributing our thermostat. We look forward to hearing from you in order to further discuss this project and bring this project to life. You can email us at [engineers@ecoessentials.com](mailto:engineers@ecoessentials.com).

Sincerely,  
EcoEssentials Inc.