**Subject: Proposal for Pilot Project: Roadside Wind Turbines for Sustainable Street Lighting and Improved Safety in Ogun State**

Dear Ministry of Infrastructure,

**Enhancing Safety Through Sustainable Lighting Solutions**

On average, Ogun State experiences 397 road accidents annually, with many attributed to poor nighttime visibility. Streetlights play a crucial role in enhancing safety for drivers, pedestrians, and other road users by illuminating roadways and improving visibility. It can also greatly contribute to road aesthetics.

However, our current reliance on traditional grid power for streetlights can be expensive and unsustainable. This raises the critical question: How can we ensure well-lit roads for improved safety while embracing eco-friendly and cost-effective solutions?

**Introducing Roadside Wind Turbines: A Sustainable Answer**

Therefore, I am writing to propose a pilot project that utilizes innovative and sustainable technology to address both safety concerns and energy needs: roadside wind turbines.

**Concept:**

This project proposes the installation of Road Side Turbines (RSTs) along select stretches of highway in Ogun State. These wind turbines are specifically designed to capture wind energy generated by traffic flow. The captured energy would then be used to power LED streetlights, reducing reliance on the traditional grid and lowering electricity costs.

**Benefits for Ogun State:**

* **Improved Safety:** Well-lit roads powered by RSTs will enhance nighttime visibility, potentially leading to a significant reduction in traffic accidents.
* **Sustainable Energy Source:** RSTs utilize a clean and renewable energy source (wind) to generate electricity, reducing our dependence on fossil fuels.
* **Cost Savings:** The project has the potential to significantly reduce electricity expenses for street lighting along highways.
* **Reduced Grid Dependence:** RSTs can lessen Ogun State's reliance on the main power grid, promoting energy independence and long-term sustainability.
* **Environmental Impact Reduction:** By utilizing renewable energy, the project contributes to reducing greenhouse gas emissions and combating climate change.

**Pilot Project Proposal:**

We propose a pilot project to assess the viability and effectiveness of our RST system. This initial phase would involve:

* Installation of a small number of RSTs along a designated highway segment.
* Data collection on energy generation, system performance, and potential environmental impact.
* Evaluation of the pilot project's success based on the collected data, including its impact on nighttime visibility and traffic safety.

**Public-Private Partnership:**

We are open to exploring a Public-Private Partnership (PPP) for this project. We would be responsible for:

* Design, manufacturing, and installation of the RST systems for the pilot project.
* Data collection and analysis throughout the project duration.
* System maintenance and support.

The Ogun State government's role would involve:

* Identifying a suitable highway segment for the pilot project.
* Providing necessary permits and approvals for installation.
* Collaborating on data collection and project evaluation, particularly regarding the impact on nighttime visibility and traffic safety.

**Next Steps:**

We are confident that our RST system offers a promising solution for sustainable street lighting and improved safety on Ogun State's roadways. We welcome the opportunity to discuss this proposal further and answer any questions you may have. We are available to present a detailed plan outlining the technical specifications, project timeline, and potential costs associated with the pilot project.

Thank you for your time and consideration.

Sincerely,

Oluwabukunmi Olamiposi Otesile.