

Project Objectives /Purpose:

- To curb Co2 emission in Kabul's Atmosphere by introducing Zero-Carbon food carts (environmental friendly, cheap and reliable source of transportation and power generation)
- To promote Renewable Energy concepts in Afghanistan
- To create sustainable livelihood for 35 impoverished women
- To raise sustainable awareness about the Climate change and to inspire people to take individual steps to mitigate threats from Climate Change



ZERO-CARBON FOOD CARTS

An innovative initiative on raising awareness about climate change, inspiring Afghans to the usage of renewable energy and improving livelihood of the people in need

A beneficiary serving Street Food from Traditional Food carts – Faces a lot of Problems while moving the cart

Project Results

- 35 Zero-Carbon Food carts will be Located in Different Parts of Kabul City
- The carts will be moved by the help solar energy which will save the atmosphere from harmful carbon dioxide and methane emissions from fossil fuel.
- Approximate Results will include saving the atmosphere from 805 KG of CO2 emission DAILY
- Calculations are made from this source (Natural Resource Canada nrcan.gc.ca) according to it Burning 1 L of gasoline produces approximately 2.3 kg of CO2. So,
- If one food cart were to consume 10 liters of Gasoline by generating power from fossil fuel combustion – it becomes 350 liters of Gasoline for 35 food carts. So, If we multiply 350 with 2.3 KG it becomes 805 KG of CO2 into atmosphere daily.
- By serving street food on wrappers containing awareness raising messages on Climate Change will have a reach to 1400 people daily from the 35 food carts.
- The Zero-Carbon food carts will open other income opportunities for women. For example powering the Juice Machines/Blenders from Solar Energy to serve fresh seasonal juices to customers. Or serving the street food at night without requiring to power the carts with Power Generators which intakes fossil fuel.



Description of Zero-Carbon Food Cart

- 1) **Metallic Frame covered by windows which will keep food hygienic by protecting it from roadside dust.**
- 2) **2 Solar panels installed at the rooftops which will charge 2 batteries placed inside the Food carts.**
- 3) **The high Torque DC Motor will be attached to one of the wheels of the carts which will get powered by the batteries when the cart is set to move.**
- 4) **The batteries will provide enough charge to light up the cart at night without using power generators**
- 5) **The batteries will have the charge capacity to run Juicers to serve fresh juice to customers, and it could also run a solar powered fan to remove any type of smoke out of the food serving area.**







The Initiative can achieve 7 of the following SDGs Simultaneously

will inspire people to take individual steps to mitigate threats arising from climate change



will motivate people to use clean and affordable energy.

Will help 35 women to escape poverty

Street food will be mostly consumed by people who can't afford expensive meals

it will eradicate the huge gender gap between workforce.

it will encourage more women to start doing business equally

it will provide good work opportunities for women to start participating actively in the economic development of the country



Estimated Quantitative Results

- **2.5 Million people will be educated on Climate Change, climate protection in Six Months through specially designed food wrappers**
- **35 sustainable businesses will be built for impoverished women**
- **2.5 Million rural poor will be helped to escape hunger in six months. By feeding them healthy, hygienic and cheap street food**

Estimated qualitative results

- **More people will get inspired from the Zero-Carbon food carts model and they will have inclination towards using renewable energy to meet their small power consumption**
- **More women will start doing male-driven businesses without having fear for being stigmatized harassed or threatened**

Harsh reaction coming from Hard liners, conservative and traditional leaders

To initiate campaigning in the local communities with the help of Religious Scholars, Youth and local leaders to curb people's disturbing behavior towards our beneficiaries. Back our campaigns with references of Prophet Muhammad First wife who was a well-known business woman. Giving rational for supporting our women in street food business

How can the model be replicated in other provinces of Afghanistan ?

Since the Zero-Carbon food carts project is based on social business model, it will raise enough revenue in one year time so that we can start upscaling the project in other parts of the country