

# EKI ENERGY SERVICES LTD

STEERING THE PLANET TO NET ZERO

## Carbon Finance for Waste Management Projects

- By Rohit Vakkalagadda
- EKI Energy Services Limited



## ABOUT US



14+ Years



40+ Countries



3000+  
Clients



1000+ Projects



250+ Climate  
Experts



200+ million  
Credits  
monitored



Leader in Global  
Carbon Market



Amongst top 5  
in the World



90% Share in  
Indian  
Carbon  
Market



India's Largest  
Carbon Asset  
management  
Firm



Only Climate Change  
firm listed in Indian  
Stock Exchange (BSE)

# OUR SERVICES



# WHAT IS A CARBON CREDIT?

- ***One Carbon Credit:*** 1 carbon credit corresponds to 1 metric ton of carbon dioxide prevented from entering the atmosphere.
- Transferable instrument certified by independent certification bodies
- ***Carbon Offsetting:*** A carbon offset is a reduction or removal of emissions of carbon dioxide or other greenhouse gases made in order to compensate for emissions made elsewhere

# CARBON OFFSET TRADING



# CARBON CREDITS STANDARDS

- **CDM** (Clean Development Mechanism) driven by UNFCCC, United Nations - Compliance program (Registration time: 2-3 years)
- **VCS** (Verified Carbon Standard) driven by VERRA Board, USA - Voluntary program (Registration time: 14-16 months)
- **GS CER/VER** Gold Standard driven by GS Board, Switzerland - Voluntary program (Registration time: 16-18 months)
- **GCC** (Global Carbon Council) driven by GORD, Qatar - Voluntary program (Registration time: 2 years)
- **Cercarbono** (Ecoregistry), Columbia – Voluntary Program





# SOURCES OF CARBON CREDITS



## Renewable energy

Biogas, Biomass/Biochar, Wind, Hydro, Solar, Geothermal, BESS, Pumped Hydro Others

01



## Agriculture

Sustainable agriculture, Live stock methane, Grass land / wetland management

06



## Energy Efficiency

Energy efficiency in - Fuel switching, Manufacturing, Production, other Industrial setups, Commercial building, HVAC and others

02



## Forestry & Land use

Urban Forestry, Soil Carbon, improved forest management, Avoided forest conversion, Agro forestry, Afforestation/ Re-forestation / Re-veg, REDD+all, Others

07



## Household & Community

Clean water, lighting efficiency, Clean cookstoves, Biogas community, cookstove & water purification, Energy efficiency, Rural Solar

03



## Blue Carbon

Mangrove preservation / Mangrove forestry

08



## Waste disposal (MSD) & Scrap Metal waste recycling

Waste to energy, Waste gas avoidance, Waste gas recovery, recycling, Scrap metal recycling & Others

04



## Chemical/ Industry

N<sub>2</sub>O destruction - adipic/ nitric acid, Carbon capture & storage, refrigerant -HFC, Refrigerant -ozone depleting, fugitive emissions

09



## Transport

Public transportation, Shipping, Renewable powered ferries, Electric vehicles and charging infra & Others

05



## Plastic Recycling and E-Waste

Plastic recycling, E-waste recycling and others

10

# BIOWASTE MANAGEMENT PROJECTS

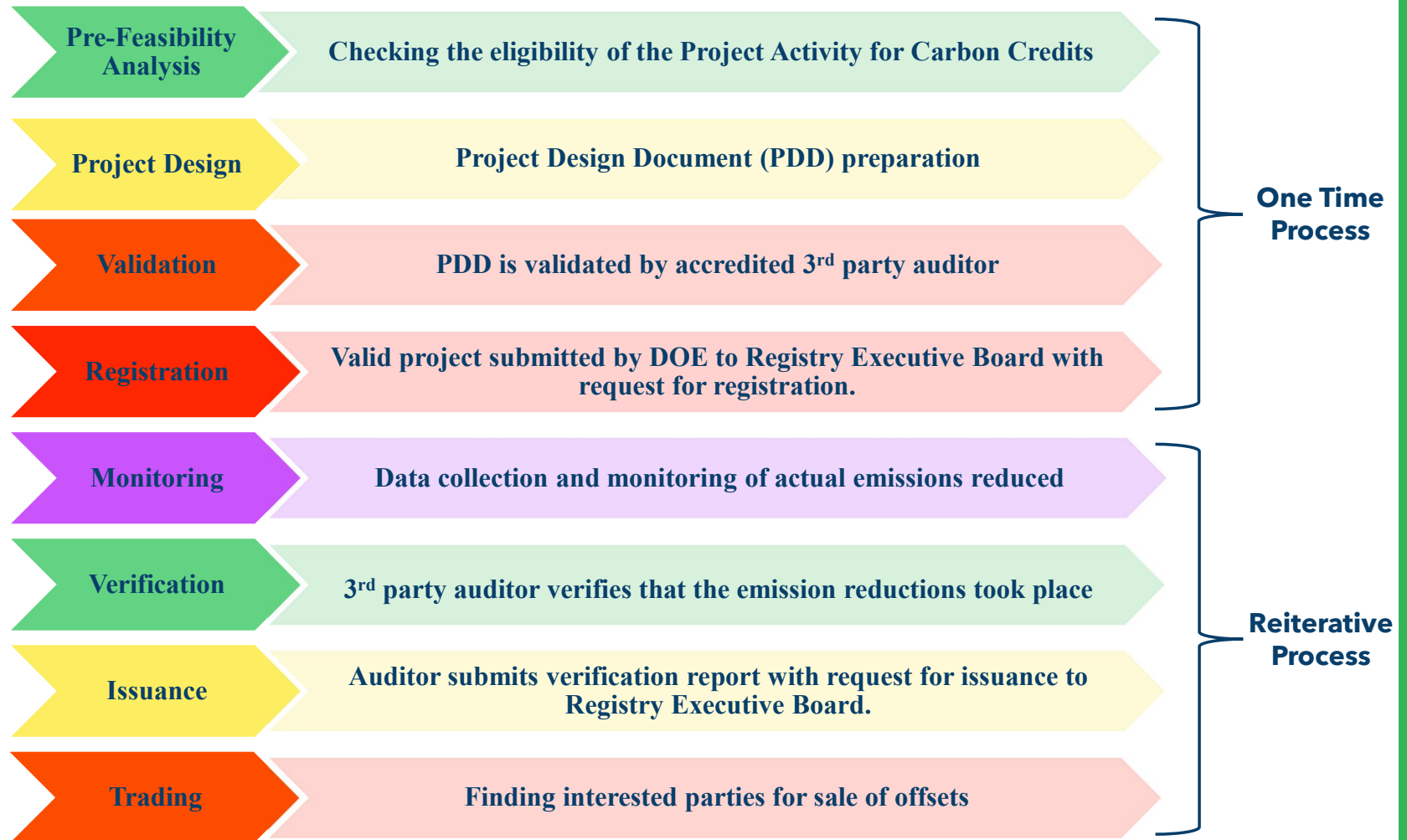
- **Solid Bioenergy (RDF / Briquettes):** Biomass and wood-energy, recovery of solid waste, forest and agricultural co-products for co/tri-generation, urban and industrial heating, and renewable green gas.
- **Liquid Bioenergy (Biodiesel / 2G Ethanol):** biofuels for the road, maritime, and air transport sectors
- **Gaseous Bioenergy:** Biogas, Biomethane, BioCNG, Green Hydrogen for local consumption or wider distribution
- **Biochar:** Biochar has a wide and evolving range of uses in agriculture and soil management, animal husbandry, water management, construction, and Biocomposites.
- **Compost formation**





# HOW ARE CARBON CREDITS ISSUED?

## Project Cycle



## EKI's BUSINESS MODEL



**INVESTMENT &  
NO UPFRONT CHARGES**



**TRADE OF CARBON  
CREDITS**



**REVENUE SHARING**

- EKIESL will provide end-to-end consultation and trade of Carbon Credits.
- Revenue generated from the sale of carbon credits will be shared at a mutually agreed ratio.
- From Project Proponent: Require Documentary Support for the complete Project Cycle.

3000+ clients served in 40+ countries

## “ National – Government

GOVERNMENT OF INDIA  
MINISTRY OF NEW  
AND RENEWABLE ENERGY

Ministry of New &  
Renewable Energy



Indian Railways



Indian Oil Corp. Ltd.



Bharat Petroleum  
Corp. Ltd.



Hindustan Petroleum  
Corp. Ltd.



Oil & Natural Gas  
Corp. Ltd.



National Hydroelectric  
Power Corp. Ltd.



National Thermal  
Power Corp. Ltd.



Airport Authority of  
India



Gas Authority of  
India Ltd.



M.P. Paschim Kshetra  
Vidyut Vitran Co. Ltd.



Bank of Baroda



Kerala State  
Electricity Board Ltd.



Uttarakhand Power Corporation Ltd.  
Corporate Identity No. UAB939/R0001502/03/07

Uttarakhand  
Power Corp. Ltd.



Manganese Ore  
(India) Ltd.



Maharashtra State Board  
Of Technical Education



Indore Smart City  
Development Ltd.



Rajasthan State  
Mines & Minerals Ltd.



Balmer Lawrie &  
Co. Ltd.



Ordnance Factory



Housing & Urban  
Development Corp. Ltd.



Khadi & Village  
Industries Commission



India Tourism  
Development Corp. Ltd.



India Meteorological  
Department



Central Water & Power  
Research Station

3000+ clients served in 40+ countries

## “ National

	Greenko Group		Hero Future Energies		GMR Group
	Adani Group		Hindustan Zinc		GVK Group
	Renew Power		JSW Steel		Emami Group
	SB Energy Corp.		Torrent Power		Hetero Windpower
	ACME Group		Fortum India		Polyplex Corp.
	Sembcorp India		Vector Green Energy		Baidyanath Renewables
	Avaada Energy		Mahindra Susten		Jakson Group
	Mytrah Energy		Hira Group		Panama Renewable Energy Group
	Azure Power		Rajasthan Gum		Aditya Birla Group

# 3000+ clients served in 40+ countries

## “ International



The World Bank



International  
Monetary Fund



The United Nations  
Office for Project Services



Kenya State Electricity  
Generation Company,  
Kenya



Siemens AG,  
Germany



Pacific Light,  
Singapore



Trans Asia  
Renewable Energy,  
Philippines



Burgos Wind Farm,  
Philippines



Hedcor Sibulan,  
Philippines



Xuan Thien Group,  
Vietnam



Thuan Binh Wind  
Power Joint Stock  
Company, Vietnam



Southern  
Hydropower  
JSC, Vietnam



Luxury Trading  
and Contracting  
Co., Qatar





**THANK YOU**



**EKI Energy Services Ltd.**