



PROJECT TEASERS FOR INVESTMENTS IN PAKISTAN'S CARBON MARKETS

High level Visit from Kingdom of Saudi Arabia

9-11th January 2026

MINISTRY OF CLIMATE CHANGE &
ENVIRONMENTAL COORDINATION
GOVERNMENT OF PAKISTAN

Ministry of Climate Change & Environmental Coordination

1. Lakhodair Dumpsite (LWMC) Landfill Gas Recovery

Opportunity Summary		Project Financials	
Ministry	<ul style="list-style-type: none"> Ministry of Climate Change 	Project Cost	Project IRR
Project description	<ul style="list-style-type: none"> A Greenfield Investment in Landfill Gas Recovery Project Landfill in use since 2016; existing waste about 20 million tons, receiving around 5000 tons per day 	20 Million USD	15.01%
Market Dynamics	<ul style="list-style-type: none"> High demand for Methane Projects delivering ITMOS Distribution of methanized landfill gas through the existing natural gas supply system in Lahore It has strong social, environmental, and health co-benefits 	Equity IRR	Payback
Unique value proposition	<ul style="list-style-type: none"> High quality Carbon credits Estimation of 350,000 reduction tCO2e per year for 10-15 years Supported by an existing CDM Methodology The project may thus comfortably be fully financed through carbon credits 	30% equity investment, IRR =57.4%	4.5 years
Business Model	<ul style="list-style-type: none"> It might be offered to an investor on a BOT basis where the return on the investment could be a guaranteed issuance of ITMOs Distribution of methanized landfill gas through the existing natural gas supply system in Lahore may be technologically. Off-take of biodiesel for fleets of vehicles may considered be legally easier, but technologically complex. 	<p>Assumptions: 30% equity investment, 70% loans, at interest rate 8% per year; ITMO price: USD 15 per tCO2e; 18% host country fees; project crediting period: 10 years</p>	
Investment	<ul style="list-style-type: none"> 20 m USD, which means an abatement cost of 1.7-2.5 USD/tCO2e 		

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2. Peshawar Landfill Site

Opportunity Summary		Project Financials	
Ministry	<ul style="list-style-type: none">▪ Ministry of Climate Change		
Project description	<ul style="list-style-type: none">▪ A Greenfield Investment in Landfill Project▪ Integrated waste management projects in four cities	Project Cost 40 M USD	Project IRR 4.4%
Market Dynamics	<ul style="list-style-type: none">▪ The project does not include methane capture of legacy waste▪ High demand for Methane Projects delivering ITMOS		
Unique value proposition	<ul style="list-style-type: none">▪ High quality carbon credits▪ Assessed emissions reduction potential is 300,000 tCO2e/year▪ Supported by an existing Methodology▪ Strong sustainability qualities▪ higher costs of toward waste management compared to backward tidying up.	Equity IRR 22.6%	Payback 10.8 years
Business Model	<ul style="list-style-type: none">▪ It is already loan financed by ADB and thus may raise addtionality concerns▪ It is expected to be implemented on BOT basis without immediate considerations for revenues from the carbon market	Assumptions: 30% equity investment, 70% loans, at interest rate 3% per year; ITMO price: USD 15 per tCO2e; 18% host country fees; project crediting period: 15 years	
Investment	<ul style="list-style-type: none">▪ 40 million USD investment		

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3. Brick Kilns Project

Opportunity Summary		Project Financials	
Ministry	<ul style="list-style-type: none"> ▪ Ministry of Climate Change 	Project Cost	Project IRR 27.7% Highly Scalable
Project description	<ul style="list-style-type: none"> ▪ An Umbrella Project for Brick Kilns in Punjab ▪ An emissions reduction project ▪ The project encompasses 1000 out of 13000 small brick kilns ▪ Inherently programmatic so there is no reason to limit the number ▪ The projected costs per zig-zag kiln is 3 times higher than estimates in India, the efficiency gain is 15% compared to 20% in India, and the crediting period is set to 5 year instead of 10 ▪ Budget is only 30% of the total investment required – or alternatively, with Indian prices, the project covers the full cost of the conversion. 	15 m USD	
Market Dynamics	<ul style="list-style-type: none"> ▪ Project characteristics would probably have significant appeal to government and corporate buyers alike ▪ Immense sustainable development benefits due to current air pollution 	Equity IRR 127%	Payback 0.8 years
Unique value proposition	<ul style="list-style-type: none"> ▪ High quality carbon credits ▪ Assessed emissions reduction potential is 370,000 tCO2e/year ▪ Extended cooperation and capacity building on both sides ▪ Supported by an existing Methodology ▪ Strong sustainability qualities 		
Business Model	<ul style="list-style-type: none"> ▪ It is expected to be implemented on BOT basis without immediate considerations for revenues from the carbon market ▪ Private sector will be encouraged to participate 	Assumptions: 30% equity investment, 70% loans, at interest rate 8% per year; ITMO price: USD 15 per tCO2e; 18% host country fees; project crediting period: 10 years	
Investment	<ul style="list-style-type: none"> ▪ 50 m USD 		

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4. Biogas for Households in Khyber Pakhtunkhwa

		Project Financials	
	<ul style="list-style-type: none">▪ Ministry of Climate Change▪ A Greenfield Investment in Biogas for households in KP▪ An emissions reduction project▪ Installation of 70,000 household size biogas digesters at the target households and provision of technical support for biogas digester installation and commissioning▪ A PoA model which makes it scalable across the country▪ Has potential in terms of gradual implementation and thus does not require the full implementation finance up front▪ May be fully financed through carbon credits	Project Cost 30 M USD	Project IRR 15.8%
	<ul style="list-style-type: none">▪ It has strong sustainability qualities and may attract buyers.▪ Immense sustainable development benefits due need for energy in rural areas	Equity IRR 48.7%	Payback 2.1 years
	<ul style="list-style-type: none">▪ High quality carbon credits▪ Assessed emissions reduction potential is 500,000 tCO2e/year▪ Supported by an existing Methodology (CDM AM0075)▪ Community based project which advances the uplift of poverty struck agriculture areas and families.	Assumptions: 30% equity investment, 70% loans, at interest rate 3% per year; ITMO price: USD 15 per tCO2e; 18% host country fees; project crediting period: 10 years	
	<ul style="list-style-type: none">▪ Community based project which advances the uplift of poverty struck agriculture areas and families.▪ By capturing and utilizing methane, biogas technology reduces greenhouse gas emissions, mitigates climate change, and provides a sustainable energy source for rural communities.		
	▪ 30 M USD		

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5. Generation of Mangrove Carbon Credits

Opportunity Summary		Project Financials	
Ministry	<ul style="list-style-type: none"> Ministry of Climate Change 	Project Cost	Project IRR
Project description	<ul style="list-style-type: none"> A Greenfield Investment in Mangrove Carbon Credits Sindh-Port Qasim (Korangi & Phitti Creeks (62,833 ha), Balochistan-Sonmiani Khor, Kalmat Khor, Sahidi Khor, Sawar Khor, Shabi & Ankra Creeks, Jiwani (5690 ha) An emissions reduction project May be fully financed through carbon credits Stages: Signing of LOI, Development of PDD, Registration by International Body, Periodic monitoring, Offer of Credits etc 	522.5 M USD	115.51%
Market Dynamics	<ul style="list-style-type: none"> It has strong sustainability qualities and may attract buyers In 2022, about 30% of all carbon offset credits for forestry projects came from voluntary registries, including IFM, REDD+, and afforestation, among other types Data also suggests that in Asia and Central America, each credit for blue carbon projects costs the range between \$13 – \$35 	Equity IRR	Payback
Unique value proposition	<ul style="list-style-type: none"> High quality carbon credits Supported by an existing Methodology Afforestation, conservation and regeneration of forests and green landscapes Improved resilience in terms of climate and environment Multiple co-benefits such as improved health, revenue generation, air quality and more 	31%	1.5 years
Business Model	<ul style="list-style-type: none"> Hiring of consultant for feasibility assessment is under process through WB support. 	Assumptions: 30% equity investment, 70% loans, at interest rate 3% per year; ITMO price: USD 15 per tCO2e; 18% host country fees; project crediting period: 10 years	
Investment	522.5 M USD		

THANK YOU