Working Towards a Green Pakistan





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WORKING TOWARDS A GREEN PAKISTAN

Directory of Green Products and Service Providers

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Shehri-Citizens for a Better Environment

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INTRODUCTION

Climate change is now the most potent challenge facing humanity as a whole – posing an existential threat. To avert the doomsday scenarios, amongst other things, there is a shift in progress to adjust into a new global economic model – replacing linear economic models with a circularity, striving for carbon neutrality and net zero emission levels and thus heralding the age of what is being termed as the 'green economy'.

Oxford Economics, in its recent publication¹ – The Global Green Economy: Capturing the Opportunity estimates that the transition to a net zero emissions environment by 2050 will create new industries worth \$10.3 trillion to the global economy by that same year.

So how do we define green economy? The term green economy was first coined in 1989 in a report to the British Government by a group of leading environmental economists, entitled Blueprint for a Green Economy (Pearce, Markandya and Barbier, 1989). The report was commissioned to advise the UK Government if there was a consensus definition to the term "sustainable development" and the implications of sustainable development for the measurement of economic progress and the appraisal of projects and policies. The term was fully formed in 2008 by the United Nations Environment Program (UNEP) as a response to global economic downturn, and formally defined by the same UNEP in 2011 as An economy that results in improved human well-being and social equity, while significantly reducing environmental risks and ecological scarcities. In a green economy, growth in income and employment should be driven by public and private investments that reduce carbon emissions and pollution, enhance energy and resource efficiency, and prevent the loss of bio-diversity and ecosystem services.

In Pakistan, the shift towards a green economy is still in a nascent phase. There are efforts ongoing to align policy and development priorities in various growth sectors with the framework provided by the Sustainable Development Goals (SDGs). The Government of Pakistan has structured a Green Economy Development Framework Model that aims to facilitate the development for 'Open Market' environment that rewards green innovation and entrepreneurship with ecologically sustainable economic growth. There are plans to provide a policy focus to this model to create the enabling legislative and policy space for promoting the green economy. The recently launched Climate Adaptation Plan of the Government of Pakistan, in its Vision Framework identifies Green Jobs and Livelihoods and Sustainable Infrastructure and Services as two defining Pillars for bringing about the required change. This is a welcome beginning, but for transforming this vision into reality a lot needs to happen – from awareness building to setting the policy, and institutional framework in place for facilitating the transition to a green economy, responsive to the emerging challenges of the day.

This present Directory aims to contribute towards green economy growth in the country by documenting on a national scale, organizations, community groups and individuals that are already working to come up with green products, services and messaging. This work is placed within a larger scale public engagement and knowledge products development initiative where Shehri-Citizens for a Better Environment, in collaboration with the Friedrich Naumann Foundation, has decided to nurture a green community – including both formal and informal actors – by initiating the project - **Forging a Community for Green Living** – where networking and productive collaboration is being stimulated for optimizing the footprint of the green economy model in Pakistan.

This is a work in progress, where there will be a continued effort to upscale this documentation effort by reaching out to more such startups, entrepreneurs and groups. Better networking can lead to reduced overlaps and contribute to complementarity of efforts other than creating a greater voice for influencing public policy and decision making. The team at Shehri-CBE looks forward with confidence to further growth and success of green efforts in Pakistan.

¹ The Global Green Economy - Capturing the Opportunity, 2023, Oxford Economics, Arup Singapore Pte Ltd

SUST	TAINABLE STARTUPS	PAKISTAN				
s. NO	STARTUP NAME	FOUNDER'S NAME	CONTACT NO.	EMAIL	VERTICALS	BLURB
				KARACHI		
1	Asani.io	Ansab Naqvi	3326220366	ansab@asani.io	CleanTech	Asani.io is solving water management and scarcity issues in Pakistan by providing dedicated automation and monitoring solutions for personalized experience with its water management systems developed to cater local needs.
2	Asqurr	Nausheen Barkat	3455363323	nausheen.barkat@ gmail.com	AgriTech	A mother daughter duo from Hunza. First and only Women led Honey brand in Pakistan.
3	Badlo Technologies Pvt. Ltd.	Dr. Sobia Javed	3142311458	drsobi.javed@gmail. com	CleanTech	Reintroduction/recycling of plastic in existing value chains
4	BHAAN: A sustainable food for soil	Nayab Raza	3331339579	rnayabraza123@ gmail.com	AgriTech	BHAAN a sustainable and ecofriendly bio-fertilizers made up of freshwater microalgae with potential to cater food insecurity, energy crises and climate change
5	Bigger Brick	Muhammad Raza	3198222989	biggerbrickweb@ gmail.com	CleanTech	Repurposing of plastic into different usable products
6	Concept Loop	Dabeer Hemani	3333972676	dabeer.hemani@ conceptloop.net	CleanTech	Repurposing of plastic into different usable products
7	Crop2x (Aqua Agro)	Dr. Muhammad Khurram, Dr Syed Saqib Bukhari and Ramla Kaleem	03353046110; 03212787865	khurram.ned@gmail. com; ramlakaleem@ hotmail.com;	AgriTech	An ag-tech company that provides data-driven crop monitoring solution to double your crops.

8	Crops in Pots	Zahra Ali	3452235282	zahra@cropsinpots.pk	AgriTech	A certified permaculture designer and organic farmer with over 14 years of experience. Helped more than 20 schools start their edible garden programs, planted thousands of native trees to restore urban spaces, and worked with farmers in different regions to promote sustainable practices.
9	DICOT INTERNATIONAL (Fortune Farms)	Kassim Motiwala	3002031528	kassim.motiwalla@ gmail.com	AgriTech	Pakistan's first and only Climate Smart Agriculture Co-operative using Private Equity. We take people who wish join the farming community and aggregate their resources for Food Secure Pakistan.
10	Ecobricks	Kashaf Akhtar	3064157551	kashafakhtar1315@ gmail.com	CleanTech	Repurposing of plastic into different usable products
11	Ecosol	Maliha Abbas Zaidi	3035454662	malihaabasszaidi@ gmail.com	CleanTech	NDCC aims to promote research at International and National levels by engaging them in Climatic Research work, Journalism, Theatre, Documentaries" and Arts.
12	EcoWind	Mussawer Ali	3379721016	therealmussawerali@ gmail.com	CleanTech	At EcoWind, we design and manufacture state of the art small- sized vertical axis wind turbines that generate clean energy from wind even with very low wind speed.
13	Enviro Solutions	Abuzar Shoaib Siddiqui	3007008705	theenvirosolutions@ gmail.com abuzarshoaibsiddiqui@ gmail.com	CleanTech	Step into a world of innovation and sustainability with Enviro Solutions. We're dedicated to transforming plastic and rubber waste into high quality products.

14	Farmdar	Muzaffar Manghi	3458281210	manghi@farmdar. co.uk	AgriTech	Farmdar provides actionable data to farmers to increase productivity and reduce waste, using remote sensing and Al.
15	FARMWELL Maveshi Hub	Younus Sandeela	3459236839	ysandeela@yahoo. com	AgriTech	FARMWELL Maveshi Hub salvages productive dairy cattle by developing a breeding / rearing program engaging cooperatives of subsistence farmers that were created by FARMWELL in 2013.
16	Fivestar Polymer(pvt)Limited	Waleed Hameed	3214496003	waleed.hameed@ fivestarpolymer.com	CleanTech	Repurposing of plastic into different usable products
17	Fruges	Sadaf Akbar	3133164515	sadapasha1994@ gmail.com	AgriTech	Tailored solutions that help farmers and agriculture companies ease into regenerative agriculture, optimizing profits and minimizing risks.
18	Hash Crafters S	Haiqa Haris	03022310105 03122117323	haiqaharis1@gmail. com	Upgrading and Up-cycling	Hash Crafters Studio is represents a passionate team dedicated to transforming décor through the art of upgrading and upcycling
19	Irverde - Gogreen	Angel Imdad	3352348004	angel_imdad@ hotmail.com	CleanTech	Irverde Gogreen is a tech enabled waste management company working on zero waste vision through innovative recycling & upcycling methods. Also spreading environmental awareness through masses.
20	Irverde - Gogreen	Angel Imdad	3352348004	angel_imdad@ hotmail.com	CleanTech	Collection & sorting of plastic waste

21	Marine Conservation Pakistan	Shabib Asghar	03312530686 03312530686	info@ marineconservation. pk shabib@ marineconservation. pk	Conservation	Sole mission is the protection of marine species and ecosystems in the ocean of Pakistan.
22	MINT Rewards	Ahsan Raza/ Mohammad Ammar	3492498174	mymintrewards@ gmail.com	CleanTech	Collection & sorting of plastic waste
23	Mywater	Ammar Jangbarwala	3042370599	ammarj@mywater.pk	CleanTech	Repurposing of plastic into different usable products
24	Omnigrow	Syed Azam Mehmood	3172032222	azam-mehmood@ live.com	AgriTech	We use blockchain to ensure secure, transparent, and tamper- proof storage of critical livestock data.
25	Pavilion Packaging (Private) Limited	Sunil Motwani	3008203335	sunil@ pavilionpackaging. com	CleanTech	Collection & sorting of plastic waste
26	Peepu / The Farms	Anas Shaikh	3453086894, 3153789668	anashaikh@gmail. com	AgriTech	Peepu connects farmers with the market and traders.
27	PV CLEAN TECH	Dr. Haider Ali	3362343766	haider.ali@neduet. edu.pk	CleanTech	Our innovative solution combines advanced robotics and AI to autonomously clean solar panels, maximizing energy efficiency and performance.
28	Ra'ana Liaquat Craftsman Colony	Begum Raana Liaquat Ali Khan	3102298922	rlccwp@gmail.com	Textile	RLCC is a women empowerment non profit serving since 1954. It supports over 20,000 beneficiaries in the communiy of Shah Faisal Colony though education, health services, vocational training and a livelihoods program.

29	Raasha	Abbas	3323015152	abbashussain.00786@ icloud.com	CleanTech	One solution for producing, blending biofuels, and incorporating digital integration for fuel delivery .
30	Safe Cooking	Sarmad H. Jaffry	3452916170	sarmadhjofficial@ gmail.com	CleanTech	GGS is reducing wood use by 60% and providing safe ventilation for cooking indoors. Safe Cooking was created to eliminate the dangers of wood and 3 stone stove cooking.
31	Shazil Pakistan	Muhammad Azeem Shariq	3212329761	azeem@ shazilpakistan.com	CleanTech	Reintroduction/recycling of plastic in existing value chains
32	She-Guard	Mehreen Raza	3337944468	rmehreen503@gmail. com	CleanTech	Repurposing of plastic into different usable products
33	Smart and Efficient Electric All Terrian UTV	Zeeshan Nafees	3152122434	able.zeeshan@gmail. com	CleanTech	Introducing the ultimate versatile UTV: It offers a cost-effective commute for professionals.
34	Suftech Innovations (Private) Limited	Muhammad Raahim Ahsan	3200406930	m.raahim@suftechi. com	CleanTech	Reintroduction/recycling of plastic in existing value chains
35	Trash2Rewards	Sumair Qasim Ali	3110254374	sumairq18@gmail. com	CleanTech	Transforming recyclable trash into amazing rewards through earning points for your eco-friendly efforts and unlocking a world of sustainable goodies.
36	Trashit	Anusha Fatima	3132094994	rahul22rai2@gmail. com	AgriTech	A social entrepreneurial venture that wants to transform the way waste is disposed in Pakistan.
37	TrashIt	Anusha Fatima	3132094994	anusha@trashit.pk	CleanTech	Collection & sorting of plastic waste
38	TRE CYCLE	Ambreen Bilal	321-7023589	amber262530@gmail. com	CleanTech	We believe in zero waste policy and circular economy

		2				
39	Verdant Agriculture	Nameera Irfan	3198172679	namirairfanabdullah@ gmail.com	AgriTech	We aim to provide our customers/ agricultural sector with organic pest control solutions alongside AI-assisted monitoring of the crops by IOT solutions for enhanced and sustainable agriculture.
40	VTOL Dynamics	Syed Azmat	3343179692	sazmat@ vtoldynamics.com;	AgriTech	Drone services based solutions provider for inspection, mapping, surveying, surveillance and agriculture.
41	Weft&Warp	Rida Khanum	3312673087	info@weftnwarp.com	Textile	Denim accessories brand with handcrafted and sustanable products.
42	WM Creative Studios	Wajiha Siddiqui	3312172958	wajiha.siddiqui@uok. edu.pk wajiha@ wmcreativestudio. com.pk	Construction	Architect Wajiha Mehdi taks center stage as she addresses the housing needs of climate-displaced individuals. She offers sustainable solutions while balacing aesthetics, functionality and sustainaibility. Highlighting the pressing need for climate resilient housing in a changing world.
			H	IYDERABAD		
43	Circular Ride	Muhammad Haris Memon	303 3531164	harismemon2k47@ gmail.com haris.memon.cr@ gmail.com	Transportation	An optimized and integrated transportation for corporate, university, hospital, & office shuttles. This solution will help in reducing the fuel consumption & carbon footprint.
44	IndusTechnetronic	Sameer Aftab	302 3013787	sameer_aftab@ industechnetronic. com	IoT	IndusTech.io aims to bridge the gap between industry and academia to produce better results in the field of technology while also assisting engineers in excelling.

45	Pak BioEnergy Solutions	Muhammad Mohsin Kareem	345 3777766	mohcinkhan@ outlook.com	CleanEnergy	Bio Energy Sources aims to address the problem of declining natural gas resources by providing safer, cheaper, and more sustainable options.
				ТНАТТА		
46	Greenyields	Sayyid Muhammad Abbas Shah	333 2666987	sayyid.abbasshah@ gmail.com	AgriTech	We produce eco-friendly diversified farming with minimal input.
				KHAIRPUR		
47	The Natural Fibers Company	Dr. Qasim Siddiqui	3362091928	qasim.siddiqui@ buitms.edu.pk	Textile	Specializing in fiber processing, it not only contributes to environmental sustainability but also results in the production of premium textile products featuring natural anti-microbial properties.
			GI	UJRANWALA		
48	BGrowTech	Muhammad Bilal	334 4775274	mbilal4333@gmail. com tech@gmail.com	AgriTech	Indoor vertical farming of hydroponic fodder for livestock farmers.
				LAHORE		
49	Eco-Char	Sheraz Khalid	NONE	sherazkhalid399@ gmail.com	Environment	A sustainable and eco-friendly fuel for industrial, commercial, and domestic customers.
50	ISP Environmental Solutions	Dr. Zillay Marium	NONE	zillaywb@gmail.com	Environment	Sustainable waste management solution provider to help Pakistan get rid of solid waste affecting its ecosystem.

51	MycoHues	Dr. Shomaila Sikandar	NONE	shomaila.sikandar@ lgu.edu.pk	Environment	Aims to replace synthetic pigments by natural pigments.
52	PakVitae	Shayan Sohail Anwar	NONE	shayansohail21st@ gmail.com	Environment	Aims to solve the drinking water problems in the world by developing 21st-century water purification technology.
			I	PESHAWAR		
53	Brown Energy	Karamat Ali	0300-4345798	nizarahmad36@ gmail.com	Energy	Brown energy is a catalyzed burning system which converts water into energy with the help of electrolysis. The startup primarily aims to reduce burning costs in industries.
54	E-Guard	Faizan Azam	0343-1924192	usman.abbasi@ nu.edu.pk	Energy	Fuel and Energy Management System Prototype modeled on wireless communication transmitter leveraging mobile technology so that fuel can be monitored separately in a cost and time effective manner.
55	ED Energy	Hayat Ali	0346-9414547	hayat.ali@edenergy. com.pk	Energy	ED Energy is providing renewable Energy solution to Domestic, Commercial and Industrial clients. The company has primarily deployed its solutions in remote areas of KP & GB that are off-grid.
56	Green Black	Saifullah Khalid	3085263411	saifsf2013@gmail.com	Energy	Green Black are making sustainable fuel pellets from waste biomass like sawdust and/ or bagasse (sugarcane waste). These pellets will burn clean and will be suitable for remote areas of Pakistan.

57	Gricks	Mubashir Waheed	3319303163	mrwedwardian2000@ gmail.com	Manufacturing Clean Tech	e project in acturing building bricks using discarded plastic bottles that are designed to withstand earthquakes, provide superior insulation, and enhance overall structural strength.
58	Innovative Composite Engineering Pvt Ltd	Muhammad Mudassar Fida	3098880912	mudassir@ composites.pk	Construction	Revolutionizing the construction industry through its innovative approach to composite architecture. The company creates composite cabins, homes, and architecture that are aesthetically pleasing, highly functional and durable.
59	IRC SOLAR	Tabish Fawad	0335-9233193	tabishfawad666@ gmail.com	Energy	The startup is not only providing innovative solar power solutions (inverex invertors) but also promoting green energy through workshops, seminars and skills development trainings for technicians.
60	MAKA - The Plant Care System	Munir Ahmed	0340-0743075	munir5pho@gmail. com	Agriculture	MAKA is a technology that aims to reduce water and fertilizer wastage in the agricultural sector by evaluating the soil's moisture and nutrient content so that farmers can make sustainable and better decisions
61	Nano Hive	Shehroz Rashid	0333-9213401	shehrozrashid786@ gmail.com	Manufacturing Clean Tech	Developing Nano Materials locally in order to help researchers and manufacturers produce Nano Particles products. Also producing heat absorbent/resistant paints with nanomaterial and are the only manufacturers of nanomaterial in Pakistan.

62	PlaXtrade	Zahra Kamal	3419856283	zaza.zulu123@gmail. com	Manufacturing Clean Tech	The initiative volvesrtshtrash into cash by selling eco-friendly products like décor and handicrafts in exchange for plastic trading through their website.
63	Teleport	Mohyuddin Khan	0345-9676610	info@teleport.com.pk	Manufacturing Clean Tech	Teleport engages in the design, development and manufacturing of fully electric bikes. It aims to cut out the commuting costs by 85%, eliminating the fuel cost and maintenance cost.
64	The Kabari	Fawad Pirzada	3030088890	pirzadafawad@ hotmail.com	Green Tech	The Kabari is a scrap management company that provides a doorstep service to help people sell their household junk like old newspapers and scraps of material.
65	Voltric	Safi Ullah	0345-9281718	info@voltric.com.pk	Energy	The startup is offering a cost- efficient alternative to solar power systems at the fraction of the cost of systems already available in the market. They propose a battery-less portable solar power solution.
66	Waste Hunter	Sangeen Khan	0335-0379147	khansangeen68@ gmail.com	CleanTech Services	The startup idea is based on solid waste management linked with IoT. The concept is to collect segregated waste door to door from households and award them credit points through an android app.

	ISLAMABAD									
67	Biz B	Sehrish Raza	0333- 8205480	Hello@bizb.store	E-Commerce	Making circular fashion a part of every household so that people start buying and selling second hand with the aim to make fashion sustainable.				
68	Waterness	Bilal Hanif	0334-5292033	bilalhanif01@yahoo. com	Clean Water	Waterness is an IoT enabled subscription based smart water purification service that provides filtered drinking water at a fraction of the cost compared to bottled water and other alternatives in the market.				
				SWABI						
69	Aquapouch	Umaima Khan	3149982085	kumaima370@gmail. com	Manufacturing Clean Tech	The concept revolves around an edible membrane designed as an eco-friendly packaging material.				
70	Eco Plastic	Ali Rehman	3129290278	aleerehman3@gmail. com	Manufacturing Clean Tech	Their process involves transforming discarded plastics into a variety of value-added products made available for purchase on their website.				
			•	HARIPUR						
71	Ecobuck	Areeba Syed	3225532742	syedareeba198@ gmail.com	Agriculture	The idea involves creating affordable compost bins with the primary goal of recycling organic waste into organic fertilizer.				
72	Ecure	Hamna Shukat	3465717687	hamnashaukat5@ gmail.com	Agriculture	The product is a compact and portable water filter, specifically designed to be attached to water bottles or taps.				

SHEHRI-CITIZENS FOR A BETTER ENVIRONMENT

Shehri-Citizens for a Better Environment was formed in 1988 (based in Karachi City), as a non-political, noncommercial, non-governmental organization (under the Societies Registration Act XXI of 1860) by a group of concerned citizens to provide the citizens with a platform to effectively voice their concerns in determining their future and taking action in arresting the deterioration in their living environment and propose reform with a view to improve the same. Shehri-Citizens for a Better Environment is now fighting at the forefront of various issues of public concern related the environment. The organization is actively engaged in areas of work like public advocacy and public interest litigation, right to information, good governance, community policing, police reforms, urban mobility, climate change and last but not the lease institutional reforms

OBJECTIVES

- Establishment of an aware and pro-active civil society, good governance, transparency and rule of law
- Promotion of research, documentation, dialogue and influence of public policies
- To provide technical assistance and guidance to local area citizens groups on their local area and environment
- Setting up an effective and representative local government system, e.g., capacity building and training
- Preparation of a proper master plan/zoning plan for Karachi and effective implementation of the same

HOW IS SHEHRI RUN

A volunteer Managing Committee, duly elected by the General Body for a term of two years, there-by functioning in an open and democratic manner. Membership is open to all who subscribe to its objective and memorandum

SUSTAINABLE DEVELOPMENT GOALS (SDGs) FOCUS

Shehri-CBE brings a focus in all its works on the 17 Sustainable Development Goals (SDGs) that define the global development agenda for today. This Publication 'Engaging Constituents in the Legislative Process - A Parliamentarians Toolkit for Inclusive Legislation', creates strong linkages with the targets of Goal 16 (Peace, Justice and Strong Institutions), other than finding cross linkages with the remaining goals as well



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