Renewable Energy – Exploiting Energy Resources at the District Level





Presented by: Daniel Osei-Bonsu (Vice President - BAG)

Venue: AICC Date: 9-11 October, 2018

Contact Us: 0202144675; Executive Secretary

Job Creation Opportunities in the Biomass Space – BAG's CALL

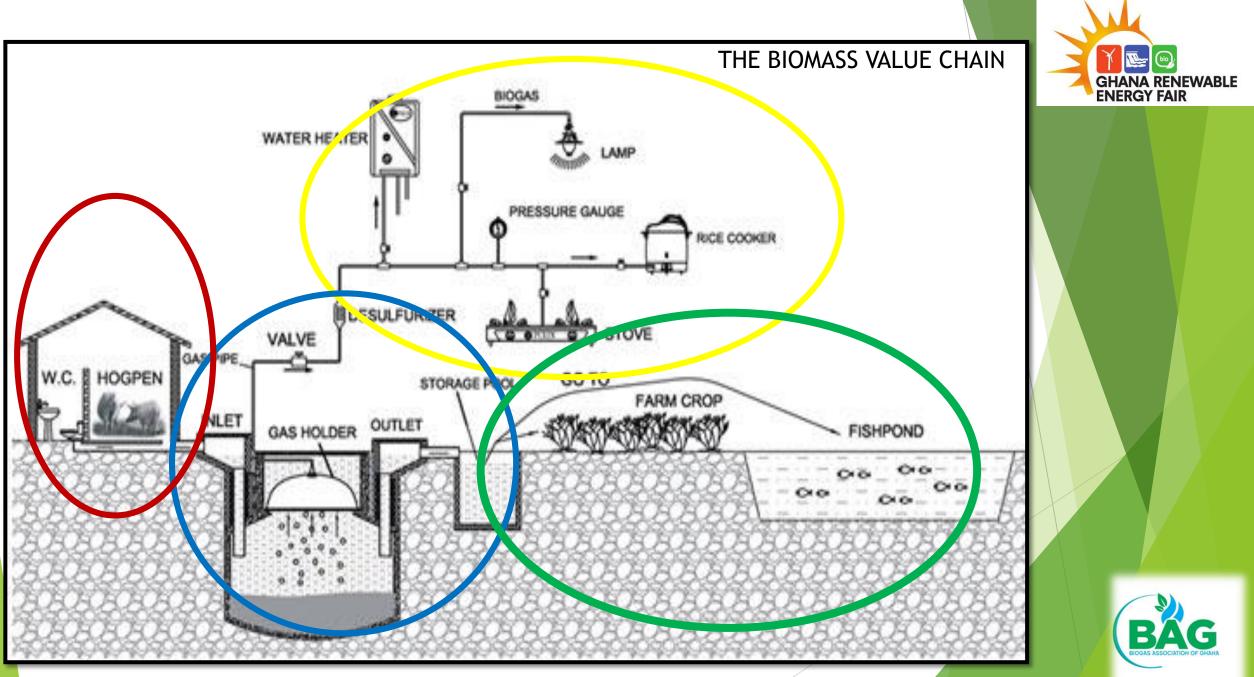
Thematic Areas for Presentation

- ▶ The Biomass Value Chains
- ► A VISIBLE & REAL Challenge identified the 21st Century Approach!
- Practical Solutions and Real Opportunities the CI Mechanism
- Basic Financial and Mathematical Equations
- A well-managed waste stream: A Case for Sustainable Business Development and Employment Creation!



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BAG's Mandate

Actively Encourage the use of "Biogas" Technologies for:

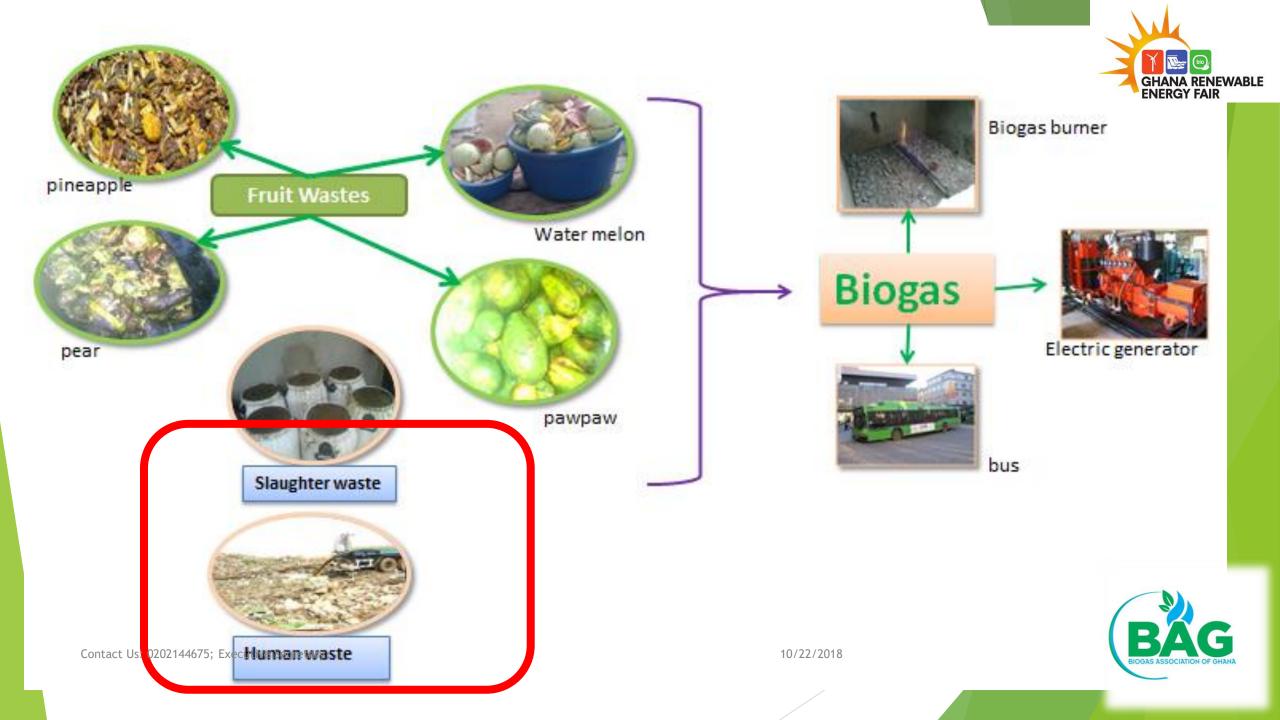
- ✓ Sanitation purposes Treating human and organic wastes
- Energy purposes Utilising Biogas from bio-digesters as energy supplementation
- Agricultural purposes Effluents used as soil enhancing materials for Crop production

10/22/2018

- ✓ Enhancing afforestation by encouraging tree planting
- ✓ Climate change mitigation
- ✓ Assured Business & Livelihood Opportunities



BAG BIOGAS ASSOCIATION OF GHANA





CHANGE POLICY

ABOLISH SEPTIC





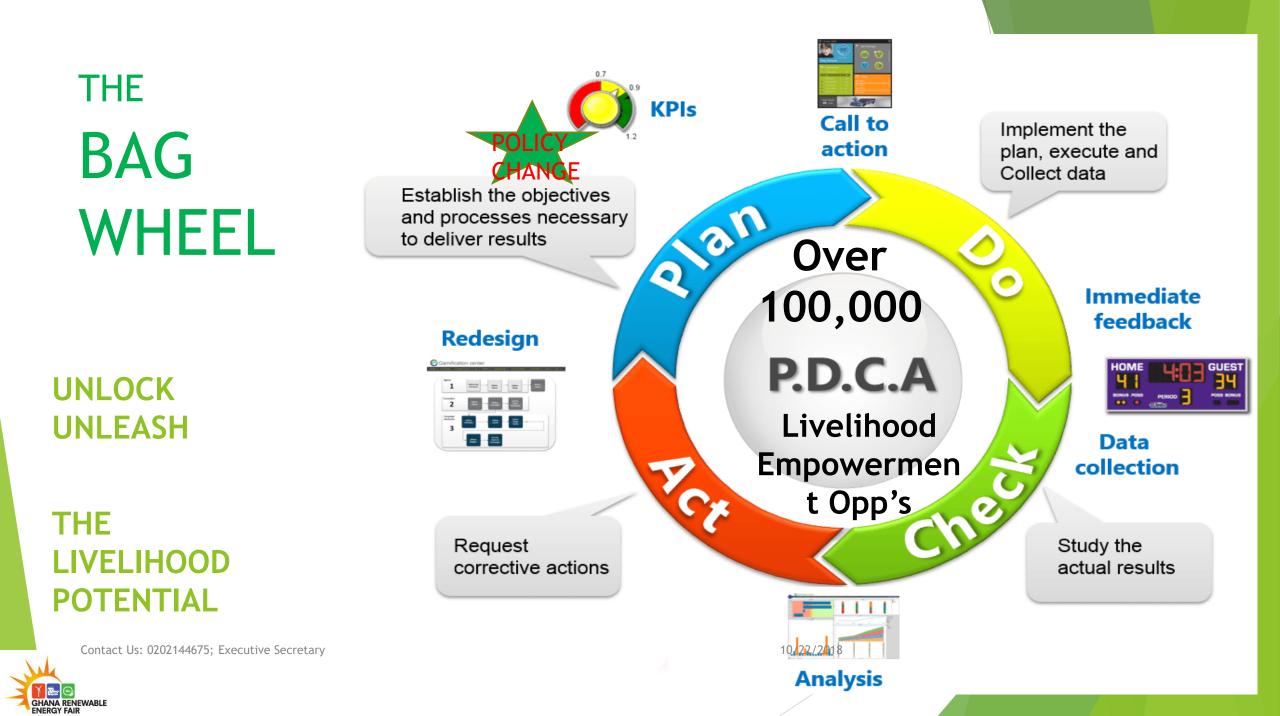


A MISMANAGED WASTE SYSTEM IS A NATIONAL SECURITY THREAT!!!

"Buying food to <u>eat</u> without making <u>adequate financial provision</u> for your poopoo is an <u>irresponsibility</u>." DOB (2018)

Target Population	No.	20,000,000	1Million Cubic/day - Biogas
Human Excreta per Capita	kg	0.3	200MWh per day - electricity
Annual quantity	ton	2,160,000	
Cost per waste handling (current rate)	Ghc/ton	2,000	
Average Cost per annum	GHC		4,320,000,000 0.96

>USD800 Million



National Biogas Program - a humbe act of Policy Cha	ange		The SHIT IV	IATH!			PAG
KEY RESOURCE AREA	Regional	Business Opportunity Potential (Nationwide)	Subtotal (No.)	Business Volume Potential (GHC)	BUSINESS VOLUME (GHC)		BIOGAS ASSOCIATION OF GHANA
No. of Target Districts	275						
Corporate Members SMEs per region (In direct construction)	10	2,750	2,750	100,000	275,000,000		
Teams Developed per Corporate Member	10				-		
Trained Artesans per team	3				-		
No. of Skilled/Semi-Skilled Artesans nation-wide		82,500			-		
Let each Corporate Member engage 2No. COW	2	5,500	88,000	12,000	66,000,000		
					ł		
R&D Engagements	5	50	50	36,000	1,800,000		
					-		
Bio-fertiliser Sector (per District)	30	8,250	8,250	24,000	198,000,000	Agrib	iz 🖉
					-		
Methanization Application (2No. Per District)	50	13,750	13,750	24,000	330,000,000	Curb	
					-	defore	station
Biogas-related accessories (5No. Per District)	5	1,375	1,375	24,000	33,00 <mark>0,000</mark>	Clean	Cook
						stove	
Spin-off (Health, Forestry, CDM, Building materials, Academia,e	tc, etc)				-		
Sustainable Business/Wealth Creation/Assured livelihood			114,175		903,800,000	20%	
Annual Business Volume			10/22/201	8	4,519,000,000	10 <mark>0%</mark>	
Per Capita benefit					7,916	A	
							GHANA RENEWABLE



Assured Business & Livelihood Opportunities

Sanitation purposes - Treating human and organic wastes

- Energy purposes Utilising Biogas from bio-digesters as energy supplementation
- Agricultural purposes Effluents used as soil enhancing materials for Crop production
- Enhancing afforestation by encouraging tree planting
- Climate change mitigation
- WHY LOOK ANY FURTHER?

JA RENEWABLE

- THE JOB CREATION OPPORTUNITY IS RIGHT WITHIN!!!

A well-managed waste stream: - A Case for Sustainable Business Development and Employment Creation!

- Over 100,000 Start-up Livelihood Opportunities?
- Potential to Scale up Job/Business Opportunities 10X?
- Direct impact on SDG's?
- Direct impact on Access to ALTERNATE domestic energy/power?
- Direct impact on the health of Women and Children?
- Direct impact on our forest?
- Direct impact on Agri-Biz and food security?
- Direct impact on Climate Change Issues?





About the Biogas Association of Ghana.

Formed on the 27th July, 2016

in Ghana

- Spearheaded by the Ghana National Cleaner Production Centre (GNCPC) of EPA under the SWITCH AFRICA GREEN (SAG) Project
- It is the umbrella body of <u>ALL Biogas</u> and biomass technology practitioners





Contact Us: 0202144675; Executive Secretary Livelihoods OpportUnities!

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The Beginning of a New Dawn is HERE!

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