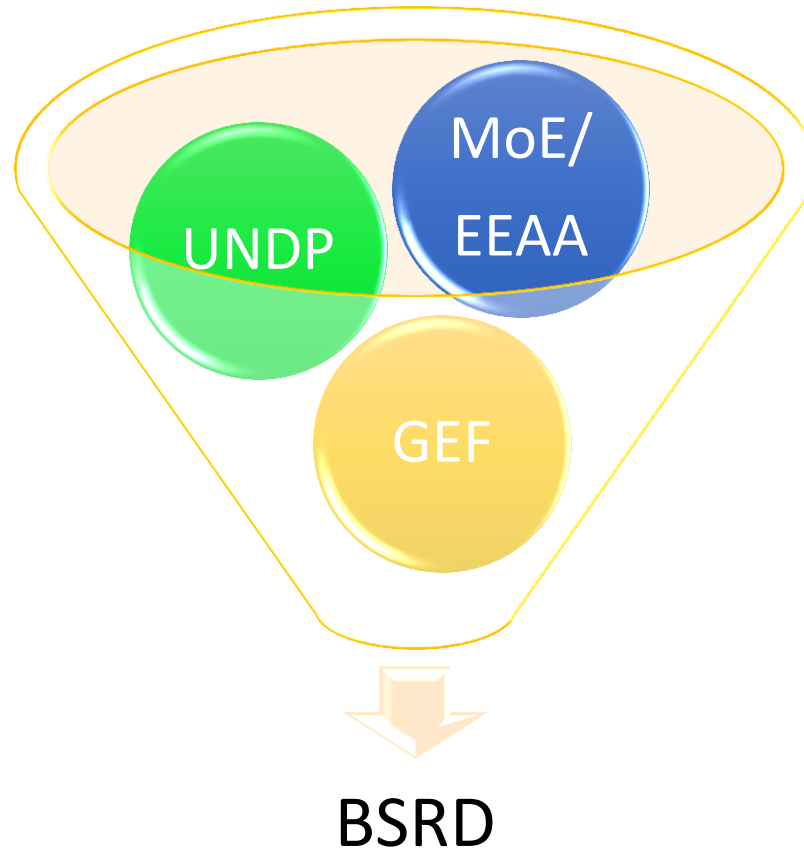
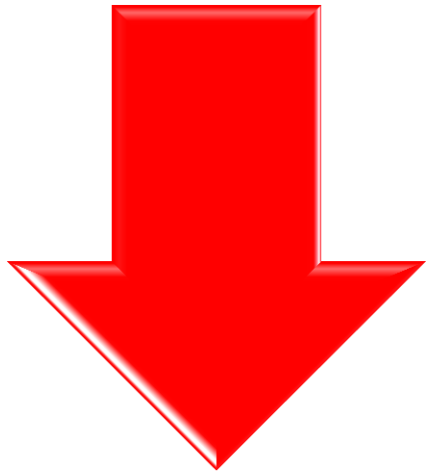


Bioenergy for Sustainable Rural Development

Project Partners



How We Treat Our Problems?



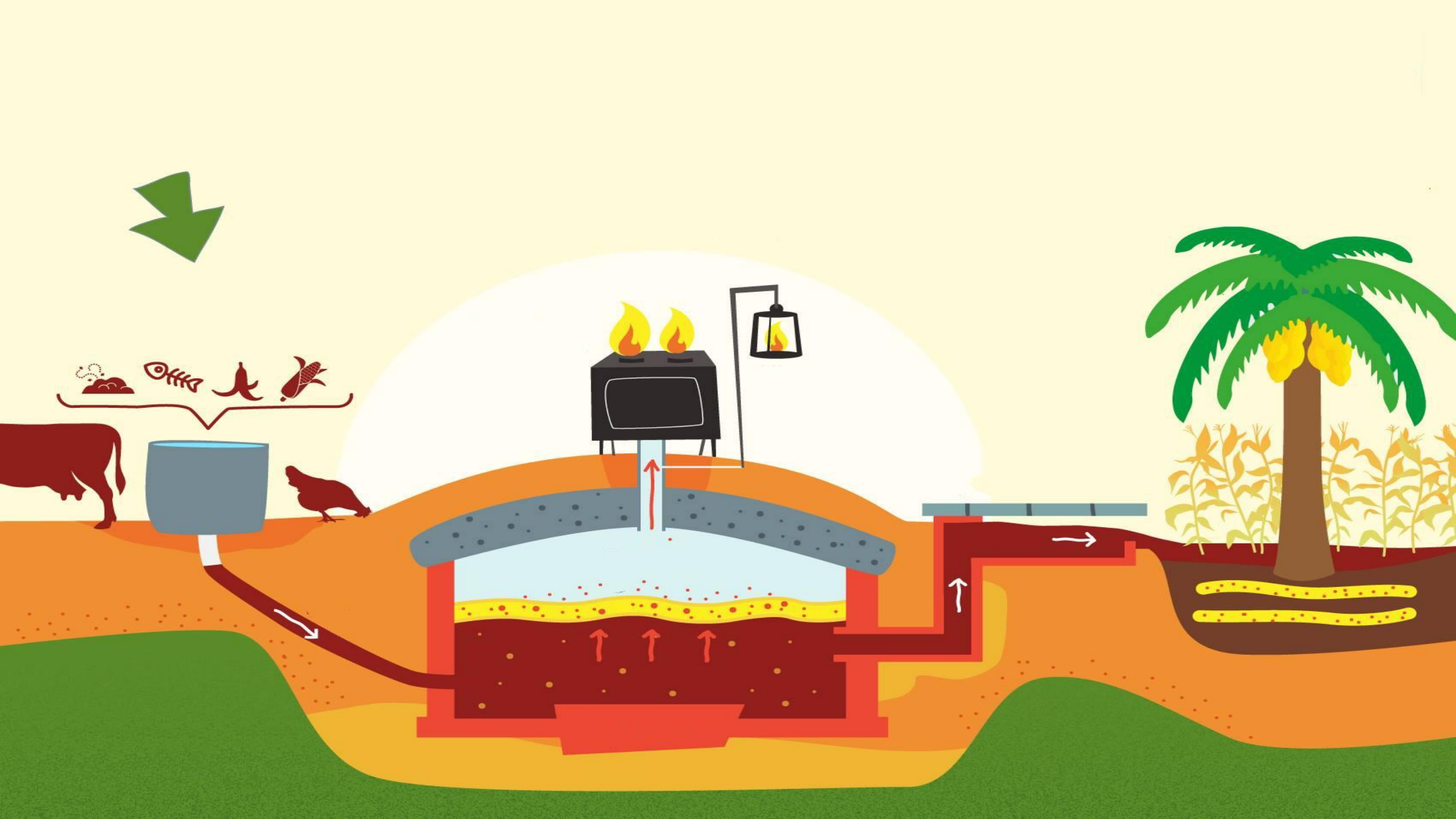
Challenges

- Energy
- Waste
- Fertilizers



SOLUTION

- Applicable technology
- Youth
- Open Market
- National Program

















Why biogas?



It's renewable

The waste produced by 3-4 cows/day generates enough gas for a family of 5



It's cheaper

Households save money on energy costs



Promotes equality

Women spend less time seeking for energy sources such as gas cylinders



Creates jobs

It encourages the creation of specialized biogas companies and jobs



Boosts income

The organic fertilizer helps increase crop production and income



It's sustainable

Households are less dependent on fossil fuels = less green house gases



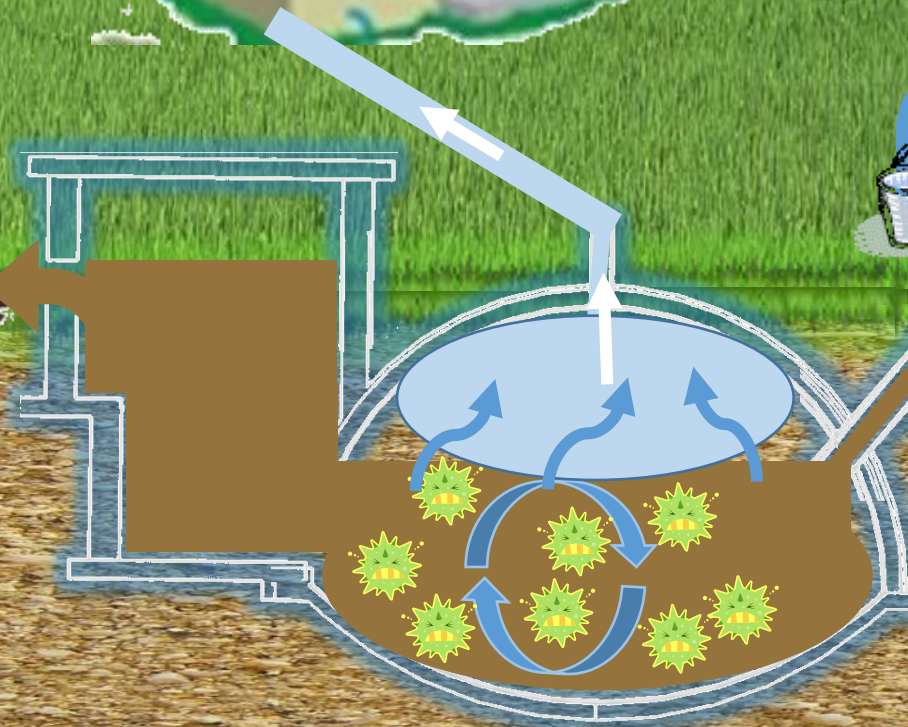
It's cleaner

It reduces agricultural and solid waste, improving water conservation



Bioenergy for Sustainable Rural Development

Biomass

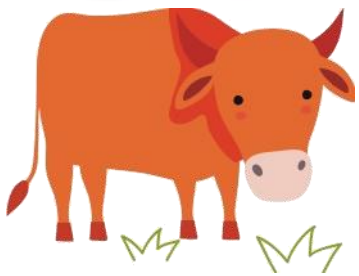


Bioenergy for Sustainable Rural Development

Biomass



3-4



50 kg
Dung



50 l
Water



2 m³ /day
Biogas Unit

Serve

5 person
Family



Replace

2
/month

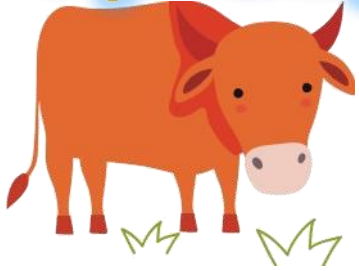


produce

7.3 t/y
Organic
fertilizer



7,681,394

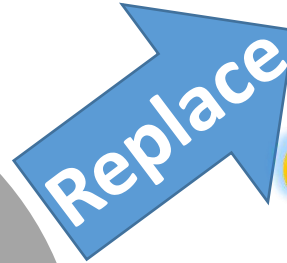
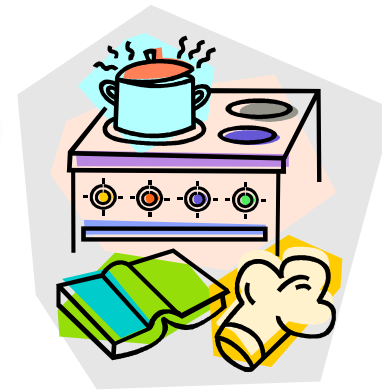


93,232,355
kg/day
Dung



3,729,294
 m^3/day
= 1,2 million unit

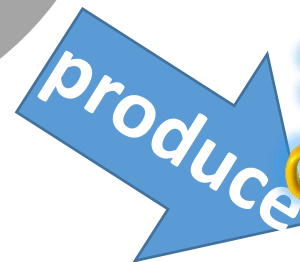
1,742,325
Family



43,558,136 /year
= 12.5 %
Of Egypt consumption



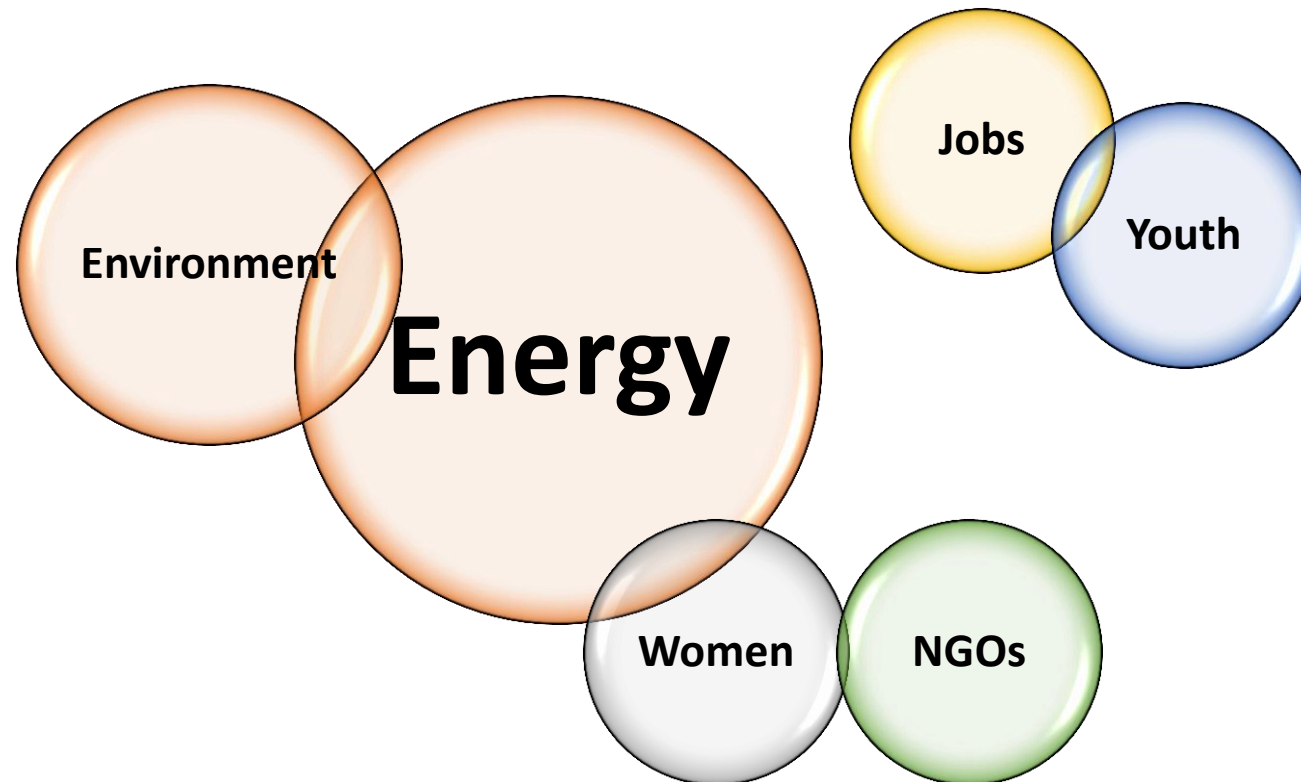
= 22.7 % Of Egypt import
= 2.38 billion EGP/year



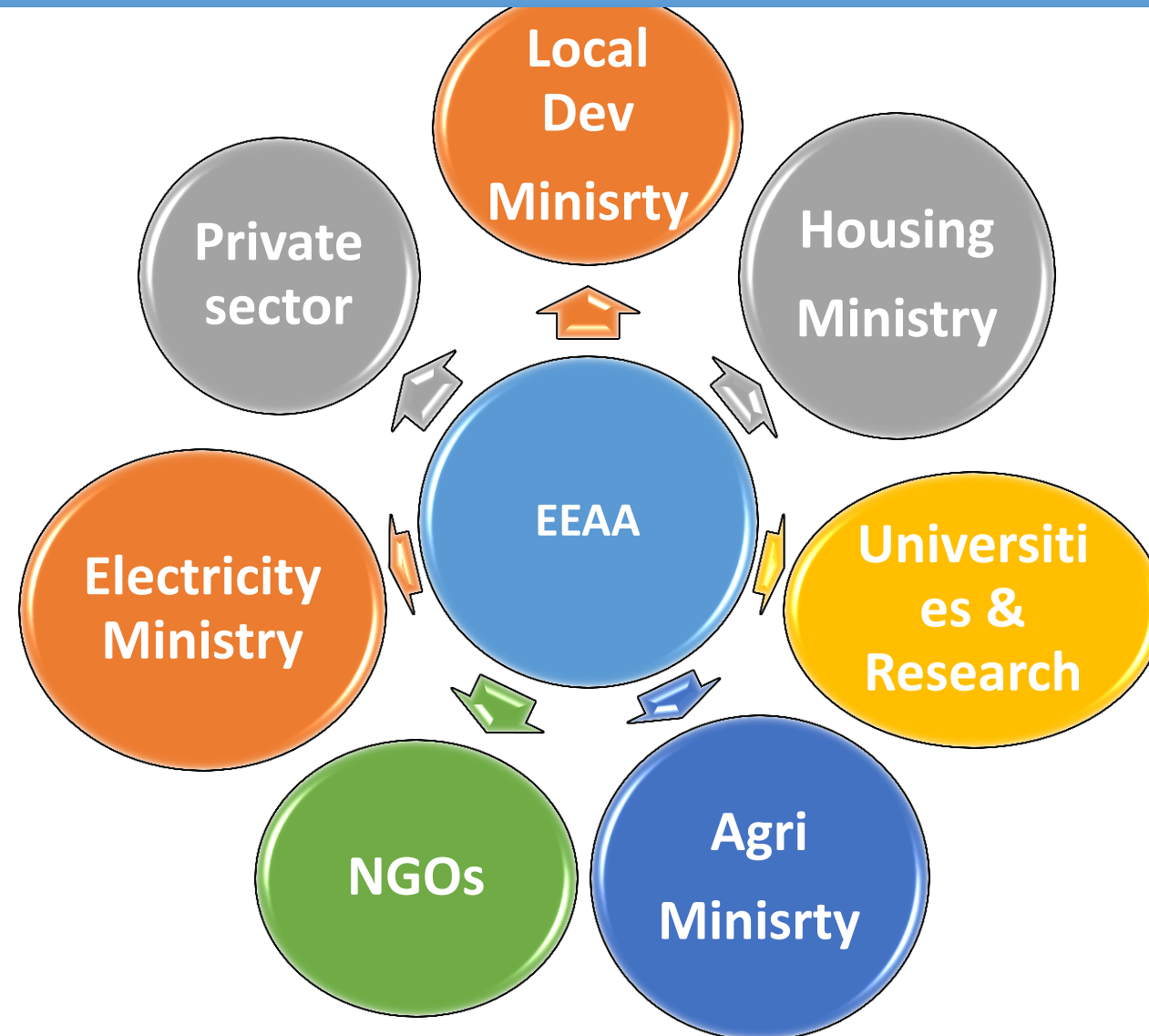
13.6 million t/y
Organic fertilizer
= 1 billion EGP



Issues of concern to the project



Partners

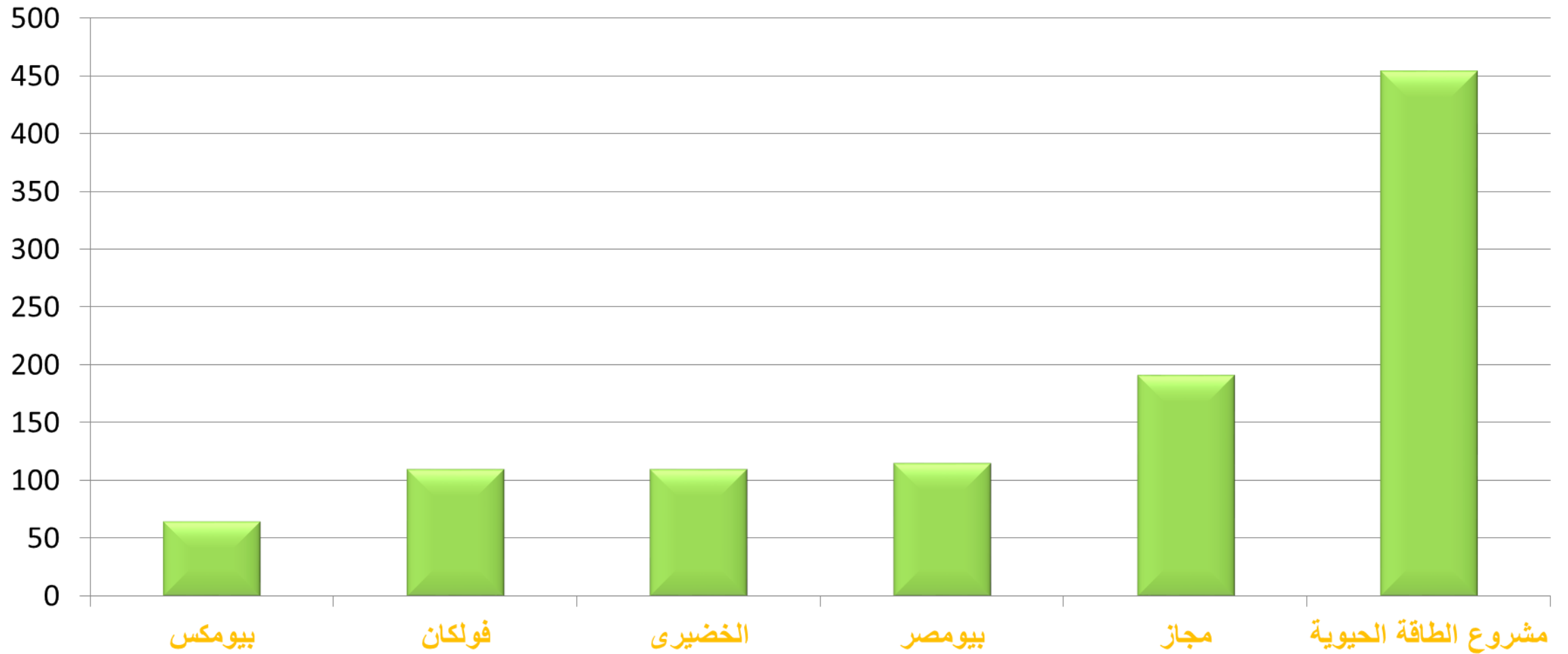


Bioenergy Service Providers Companies (BSPs)

- Bioenergy Service Providers Companies (BSPs) are youth companies registered to solve different problems in the Egyptian communities.
- They are mainly founded through Ministry of Environment to provide job opportunities for the fresh graduated engineers and masons.
- BSPs are legally established after providing on-job training in the villages on the construction of the biogas units.
- Purpose of the initiative is to continue the development of the biogas market on a self-sustaining basis.

- This group of registered BSPs is working in the newly invented market not only to install new biogas units but also to provide same technical practical on job training to other engineers and masons.
- Twenty newly registered BSPs are spreading all over the Egyptian villages and providing their service to more than 1000 families.
- This is done after overcoming some of the challenges, mainly, changing people mindset to use biogas instead of the LPG, as well as the importance of the bio fertilizer instead of chemical fertilizer.

• وحدات بيوجاز منزلية (موزعة على جهة التنفيذ)



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- Having built 1000 biogas units and targeting to construct 250,000 units in the long run, this practice mitigates climate change on both agriculture and energy sectors.
- 1000 units = 2393 m³ biogas =, the 7,600 tons annual GHG reduction .
- 250,000 units = 1,000,000 m³ biogas =, the 3 milion tons annual GHG reduction .
- The biggest socioeconomic impact of the BSPs is its contribution to the support of women in villages and providing them with accessible source of energy without humiliation or asking others for the support.

شكرا لحسن استماعكم

احمد مدحت

مدير المشروع

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