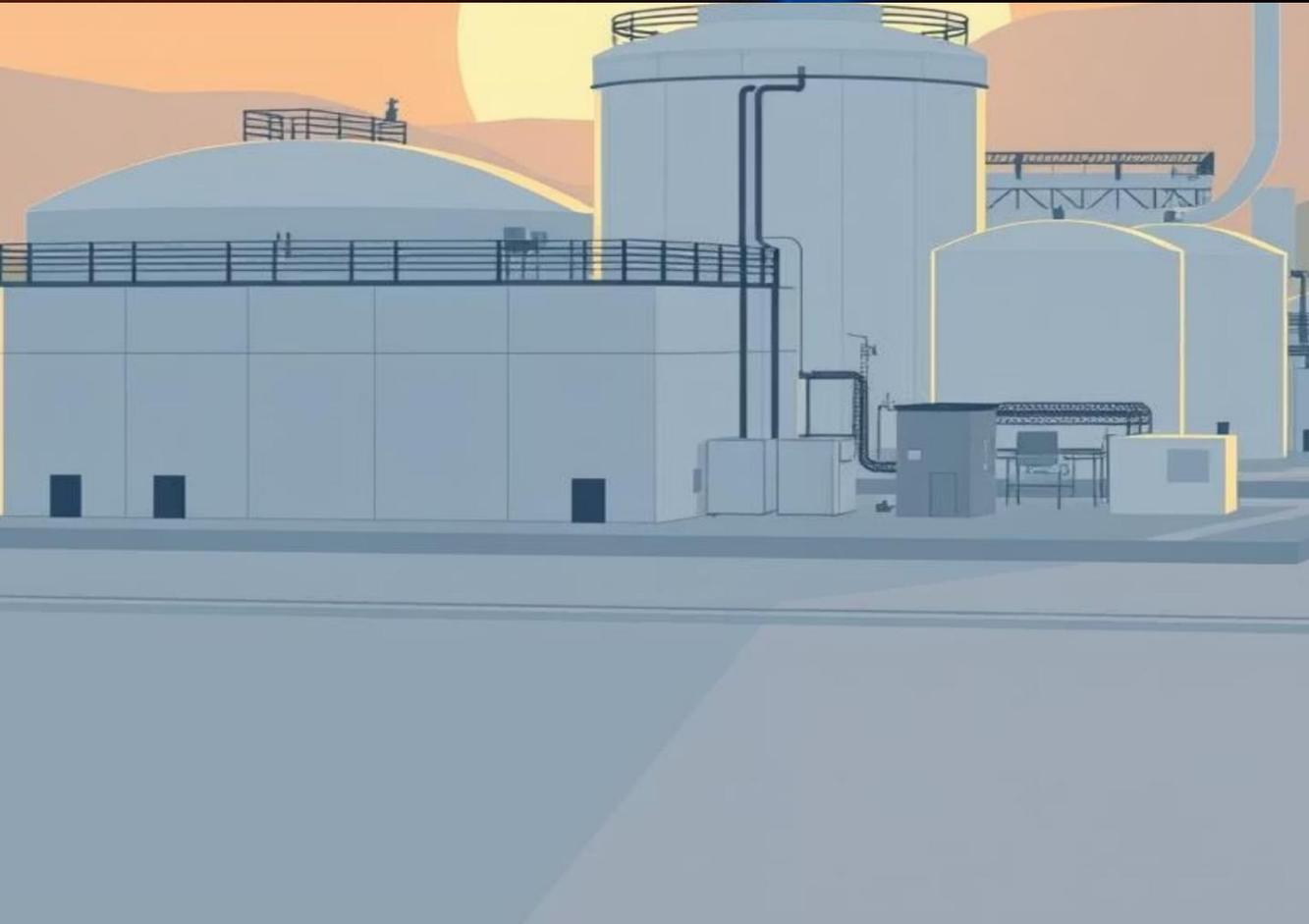




UZBIOGAZ

# Powering a Sustainable Future



Alijon Temirov,  
Director,  
Uzbiogaz

# Uzbiogaz's Mission



## Educate

Share knowledge on biogas technology, its processes, and environmental benefits.



## Collaboration

Foster a vibrant community for collaboration and exchange of innovative ideas.



## Promotion&Development

Growing renewable energy sector, utilizing organic waste like food residues and livestock manure to produce biomethane for electricity, heat, and fuel.

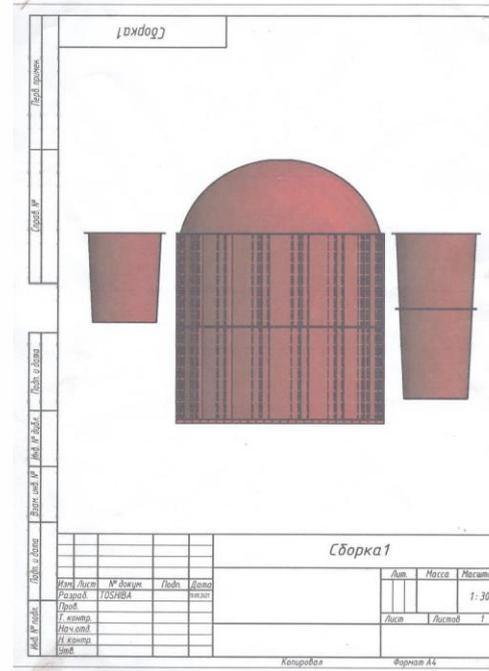


## Fergana region:

Volume of the fermentation reactor -  
30 m<sup>3</sup>

Biogas production capacity – 50 m<sup>3</sup>  
per day

3. Project cost \$ 12 200



## Samarkand region:

Volume of the fermentation reactor -  
15 m<sup>3</sup>

Biogas production capacity: 15-20 m<sup>3</sup>  
per day

3. Project cost \$ 5 000



## Biogas plant construction in the Bostanlyk district of the Tashkent region

1. Volume of the fermentation reactor - 150 m<sup>3</sup>
2. Biogas production capacity - 400-700 m<sup>3</sup> per day.
3. Project cost \$ 56 000



# New biogas project proposal for the medium term

The main production parameters for this project are:

- 10 000 m<sup>3</sup>/day (3,6 mln m<sup>3</sup>/year) of biogas
- electricity generation of 26 thousand kW/day (9.5 million kW/year)
- production of biofertilizers, in the form of:  
liquid fraction – 20 t/day (7 300 t/year)  
solid fraction - 10 t/day (3 600 t/year).

The total estimated cost - 1 mln US dollars.



The project will create - 12 jobs.

The implementation of this project requires 0.35 hectares of land.



# Advantages of Using Biogas Technologies

## Economic:

- Lower costs for chemical fertilizers
- Lower energy supply costs for the farm
- Revenues from the sale of bio-fertilizers and biogas
- Revenues from increased yields of cultivated crops
- Reduced costs for construction of power lines and gas pipelines
- Reduced costs for construction of wastewater treatment facilities



## Environmental:

- Reduced harmful emissions
- Disinfection of organic waste
- Prevention of environmental damage from chemical fertilizers

## Agrochemical:

- Replacement of chemical fertilizers
- Increased yields of agricultural crops
- Reduced nitrate levels in soil
- Increased humus content in soil

## Social:

- Creation of new jobs
- Improved working conditions
- Enabling new types of production
- Reduced morbidity

# Japan has a very long and extensive practical experience in the production of biogas

Toyo Biogas Power Generation Plant



Biogas facility in Sagami-hara



Wakayama Gobo Biomass Power Plant



Promoting biogas and renewable energy solutions for a cleaner, brighter tomorrow!



ありがとうございます

Thank you for attention!