

1,6 MW biogas plant in Balatonszabadi

Project Promoter: ENERGREEN Ltd.

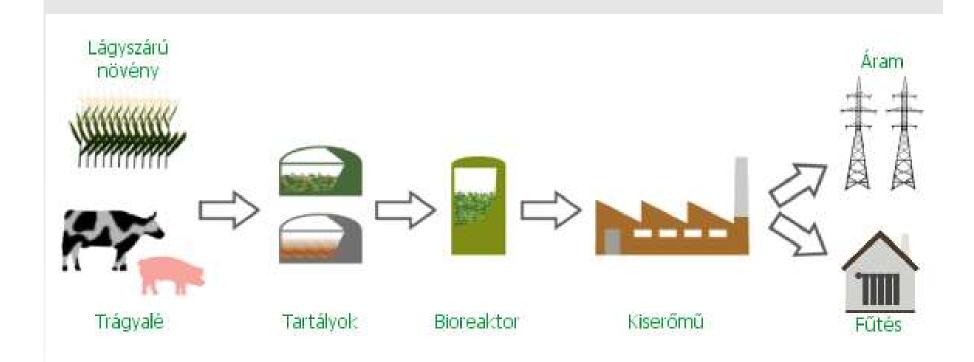
Adam Ragoncza – project manager Nawaro Ltd.

2018.06.19. Balatonfüred

EEA Grants Program 2009-14

Utilization of biogas





Project introduction



The goal of the project:

Construction of 1.6 MW_e -biogas plant in Balatonszabadi

to utilize dairy cattle manure and energy crops of the surrounding arable land – wastes later

Implementation period: summer 2016.— 30th April 2017.

General contractor: NaWaRo Ltd

Technology supplier: ASEMA Ltd

Project introduction



Total budget: 4,8 million EUR

➤ Hard costs: 4,7 million EUR

> Publicity: 10.000 EUR

➤ Project management: 90.000 EUR

Financing:

> EEA Grants: 2 335 887 EUR

> Own sources: 2 456 373 EUR

Time frame of the project I.



- Project preparation (2005 Q2 2016 Q2):
 - Search for location
 - Project planning and development
 - Searching for funds
- Planning and licencing (2009 Q2 2016 Q4)
 - Final design
 - Tendering, contracting
 - Financing
 - Final licencing

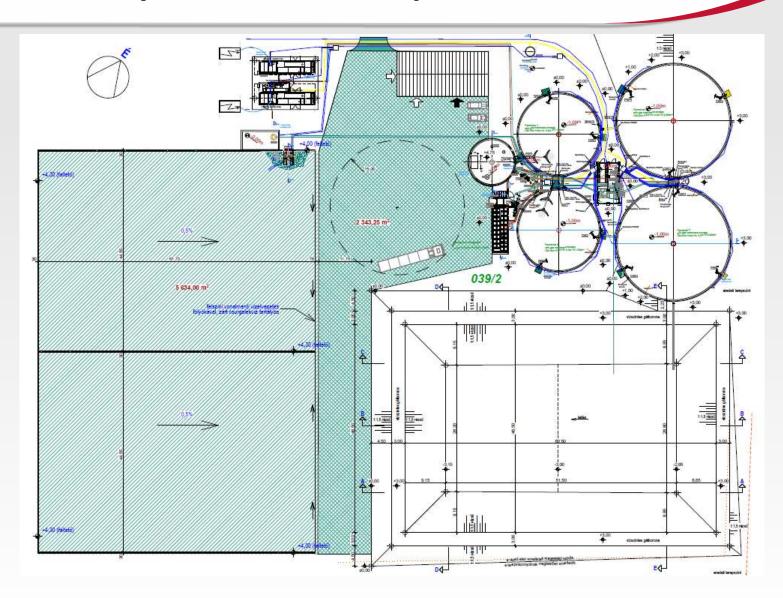
Time frame of the project II.



- Implementation period(2016 Q4- 2017 Q2)
 - Construction works
 - > Earthworks
 - Concrete works-
 - > 8.800 m3 ferementer volume
 - ➤ 6.000 m2 silage storage area
 - > 12.000 m3 end storage tank
 - > 200 m2 hall
 - > Biogas technology construction works
 - > Electrical works
 - > Infrastructural works

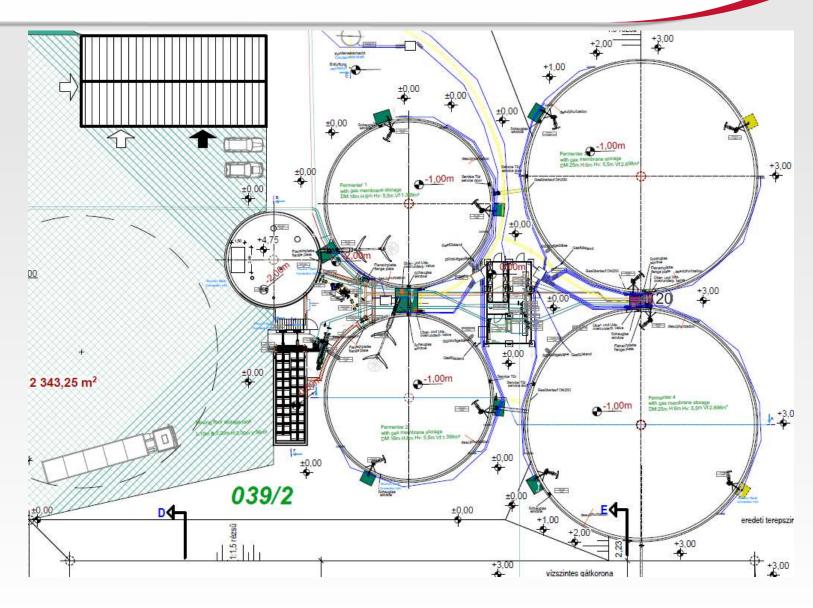
The layout of the plant I. grants





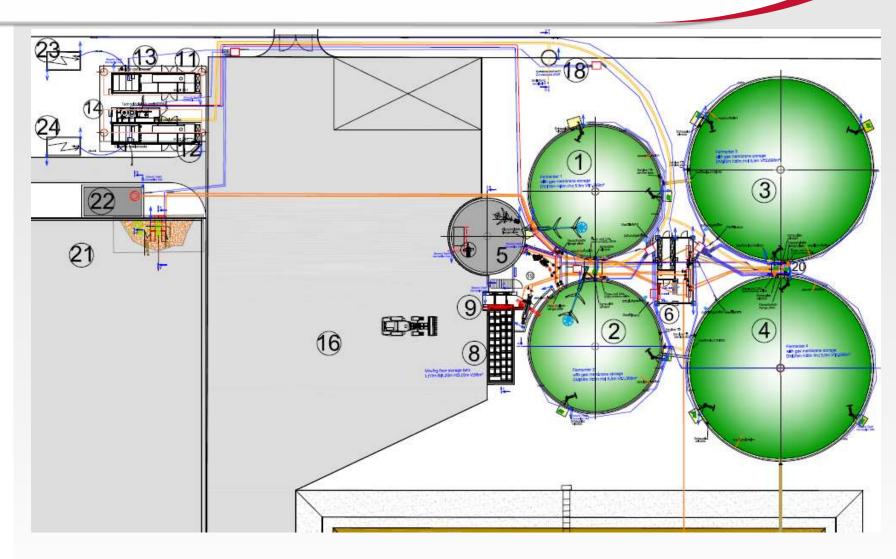
The layout of the plant II.





The layout of the plant line eea grants grants





20. April 2017 – Closing event inside







20. April 2017 – Closing event outside



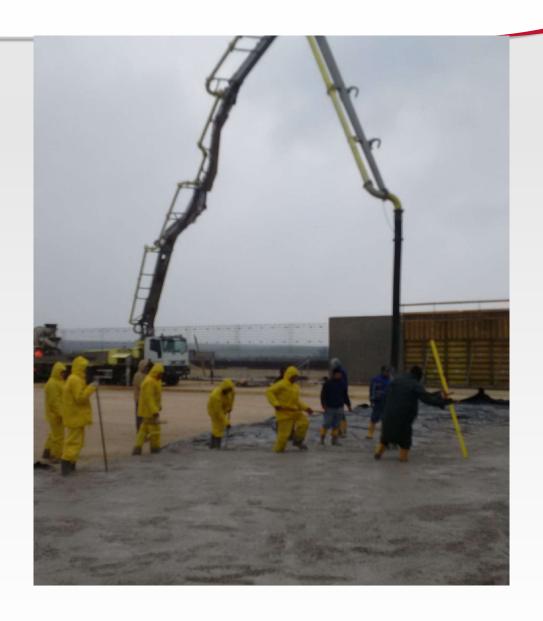




20. April 2017 – Closing event outside







Construction works in 2 minutes





Since 30th of April....



- All licences and permits available
- Fermenters filled up with substrate and run in
- Biogas production started
- CHP first start 28. August 2017.
- Grid synchronization 19 September 2017.
- First sold kWh 1st October 2017.



Thank You for the Cooperation!