

INVESTMENT PROPOSAL

COMPLEX UTILISATION BIOGAS POWER PLANT & PROTEIN PRODUCTION



TECHNOLOGY KNOW-HOW



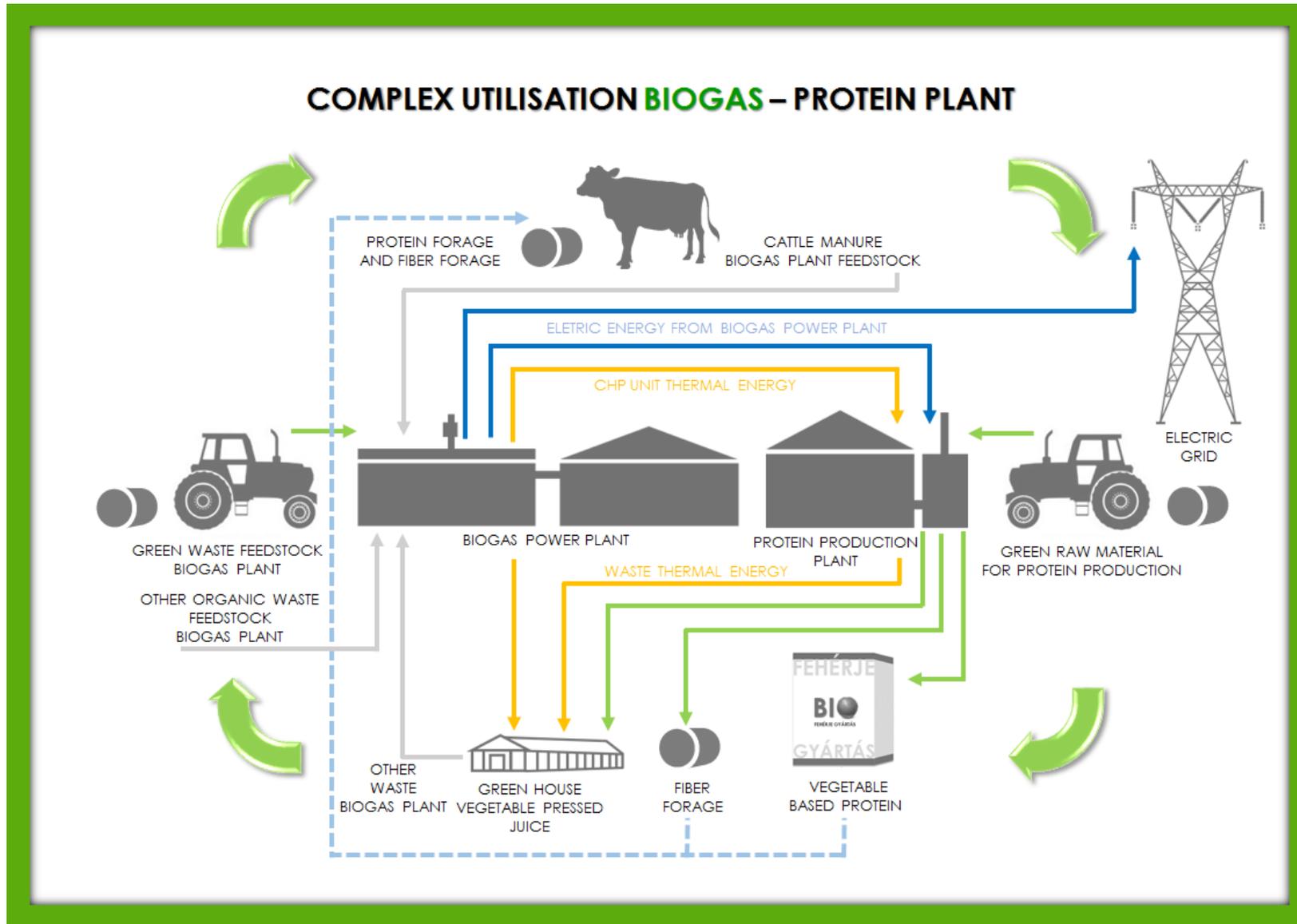
KKTJ Bausysteme GmbH. and CONSULTUM HUNGARY GmbH.
Made by: Mr. Norbert Géczi – KKTJ Bausysteme GmbH. and Mr. Lajos Tóth Consultum Hungary GmbH.
28. 11. 2016. - Augsburg, Germany





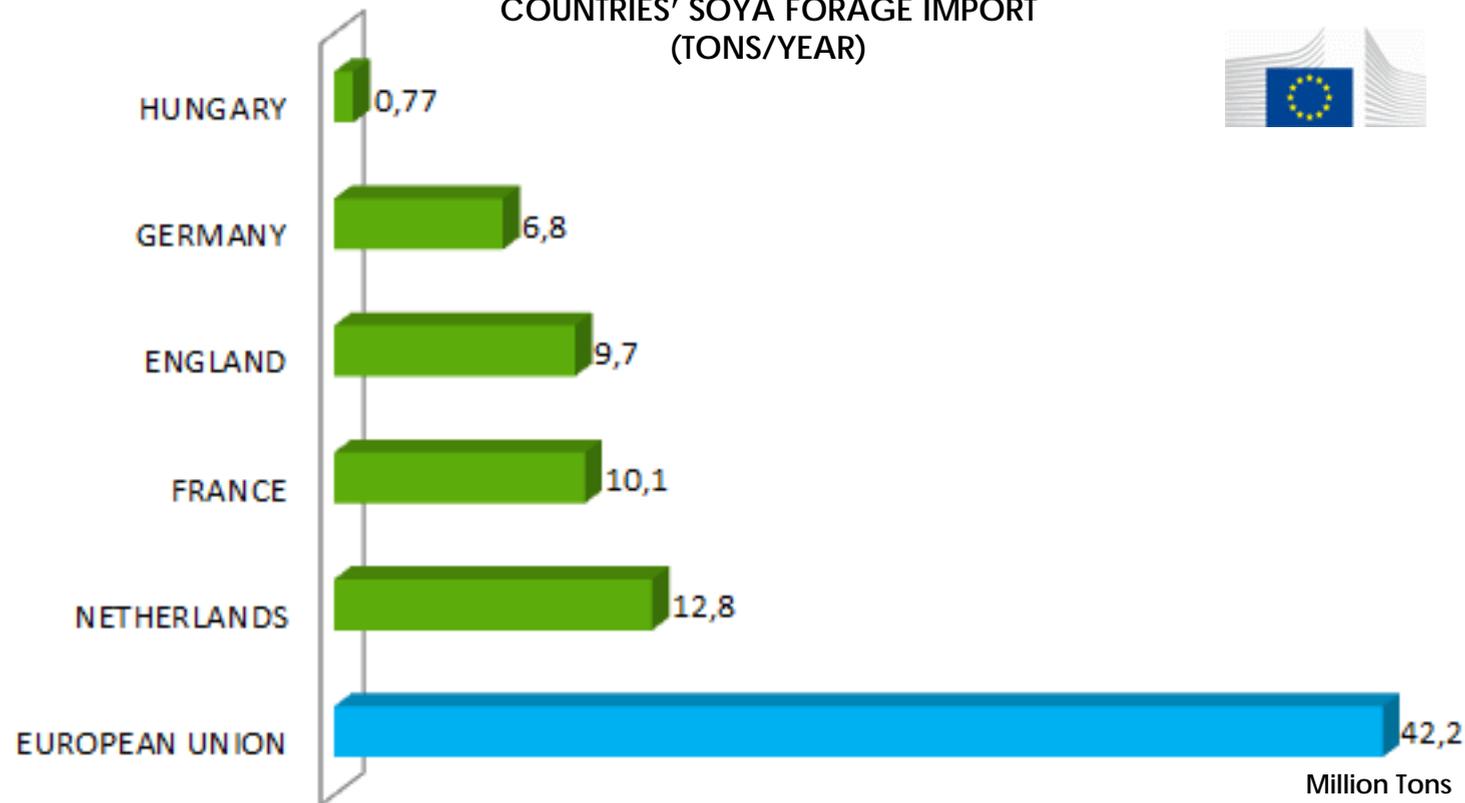
BIOGAS HOCHREITER
Innovation aus einer Hand

COMPLEX UTILISATION BIOGAS POWER PLANT &
PROTEIN PRODUCTION PLANT
IN HUNGARY (BRAND NEW)



The complex utilization biogas-protein production plant would produce high protein content forage which is highly demanded on both domestic and export markets. Protein production takes place by applying a new technology using perennial green plants as raw materials. The biogas plant produces biogas from renewable organic waste resources and burns the gas to generate electric power and heat. The electric power will be fed in the regional electric grid and the co-generated relatively "cheap" thermal energy will be fully utilized locally in the auxiliary thermal energy intensive drying-protein forage production plant.

IMPORTED PROTEIN IN EUROPE
COUNTRIES' SOYA FORAGE IMPORT
(TONS/YEAR)



The capital intensive technology would revolutionize the traditional annual grain crops producing agriculture and provide the solution for the sustainable climate friendly, higher value agriculture activities.

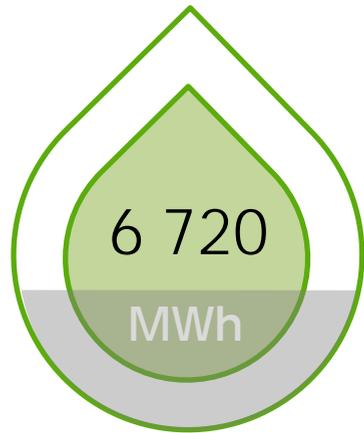
There is a high demand for protein rich forage both in Hungary and in the EU and the demand is supplied from overseas import sources.

The widespread application of the business model would terminate the dependence on import protein forage in short period of time. Several patent claims have been filed for the applied technology.

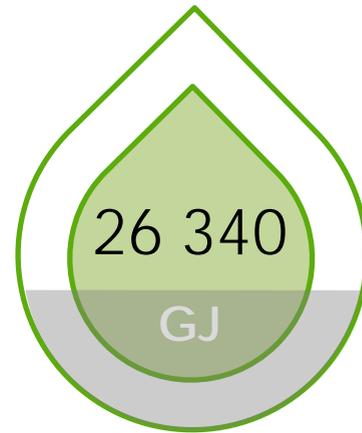
OUR PRODUCTION (YEARLY)

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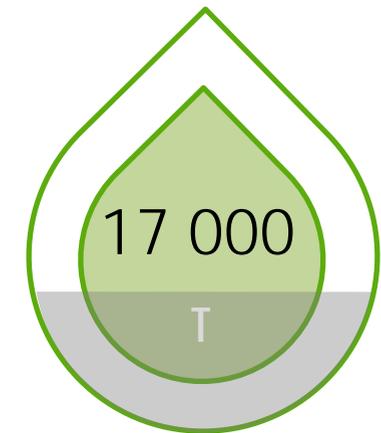
Electric energy



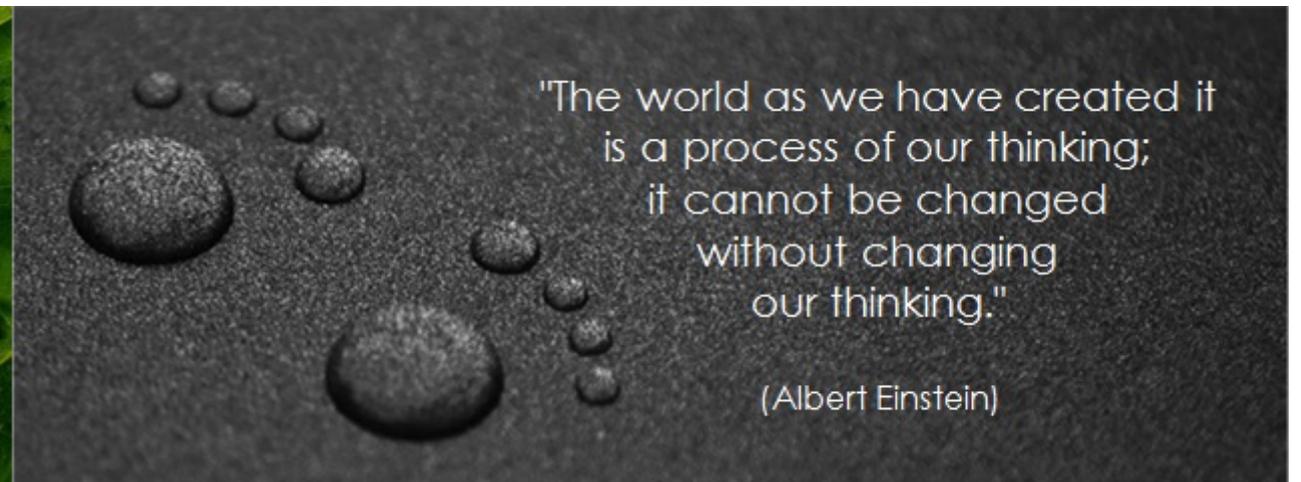
Heat energy



Protein forage



Fiber forage



Such complex utilization biogas-protein production model can be easily copied and possess several economic, environment protection, rural development and employment advantages.

It produces electric and thermal energy from renewable organic waste materials to be used to produce valuable protein rich forage products while solves organic waste pollution problems. The fermentation remains will be used as an organic fertilizer on the nearby fields. Such remains are not hazardous and not polluting the environment.

Based on the investment needs and its operational assumptions in 11 years, such 800kWterm biogas – protein plant investment would yield a cash flow with 39% internal rate of return and would pay back the investment in 4-5 years. The operation would generate stable profits from the high protein content forage products which are highly demanded.

CAPITAL NEED: 4.5 million EUR BIOGAS PROTEIN PLAN: 1.95 million EURO

ELECTRIC ENERGY SALES REVENUE/YEAR: 0,58 million EUR

PROTEIN SALES REVENUE/YEAR: 0,94 million EUR

FIBER FORAGE REVENUE/YEAR: 1,15 million EUR

Capital requirement (Protein P.): 1.95 million EUR

Factory (place): Hungary

Revenue (yearly): 2.67 million EUR

EBITDA (yearly): 44 millió EUR

PAT to Revenue: 10 - 12%

Return of investment: 4 - 5 years

Number of employees: 16

OUR PARTNERS

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Company: **Biogáz Felpéc Kft – HU – 9122 Felpéc**

Project – ID: **KEOP4.4.0/A/09-2010-0030**

Location: **HU – 9122 Felpéc, 0268/4 hrsz. (geographical location)**

Sponsored by:

Európai Unió
Európai Regionális
Fejlesztési Alap



BEFEKTETÉS A JÖVŐBE



Nemzeti Fejlesztési Minisztérium

HU – 1011 Budapest, Fő u. 44 – 50

Ministry of National Development

Fő – Str. 44 – 50 / HU – 1011 Budapest

Capacity: **800 KW**

Technology by:



Aim of the project:

6.720,0 MWh / year electricity

6.795,6 MWh / Thermal energy

6.183,0 t CO² / year savings

Commissioning:

17.12.2016 – 23.12.2016

INVESTOR CAPITAL

+

HUNGARIAN KNOW - HOW

+

COOPERATION & SYSTEM INTEGRATION

=

SUCCESS & P R O F I T