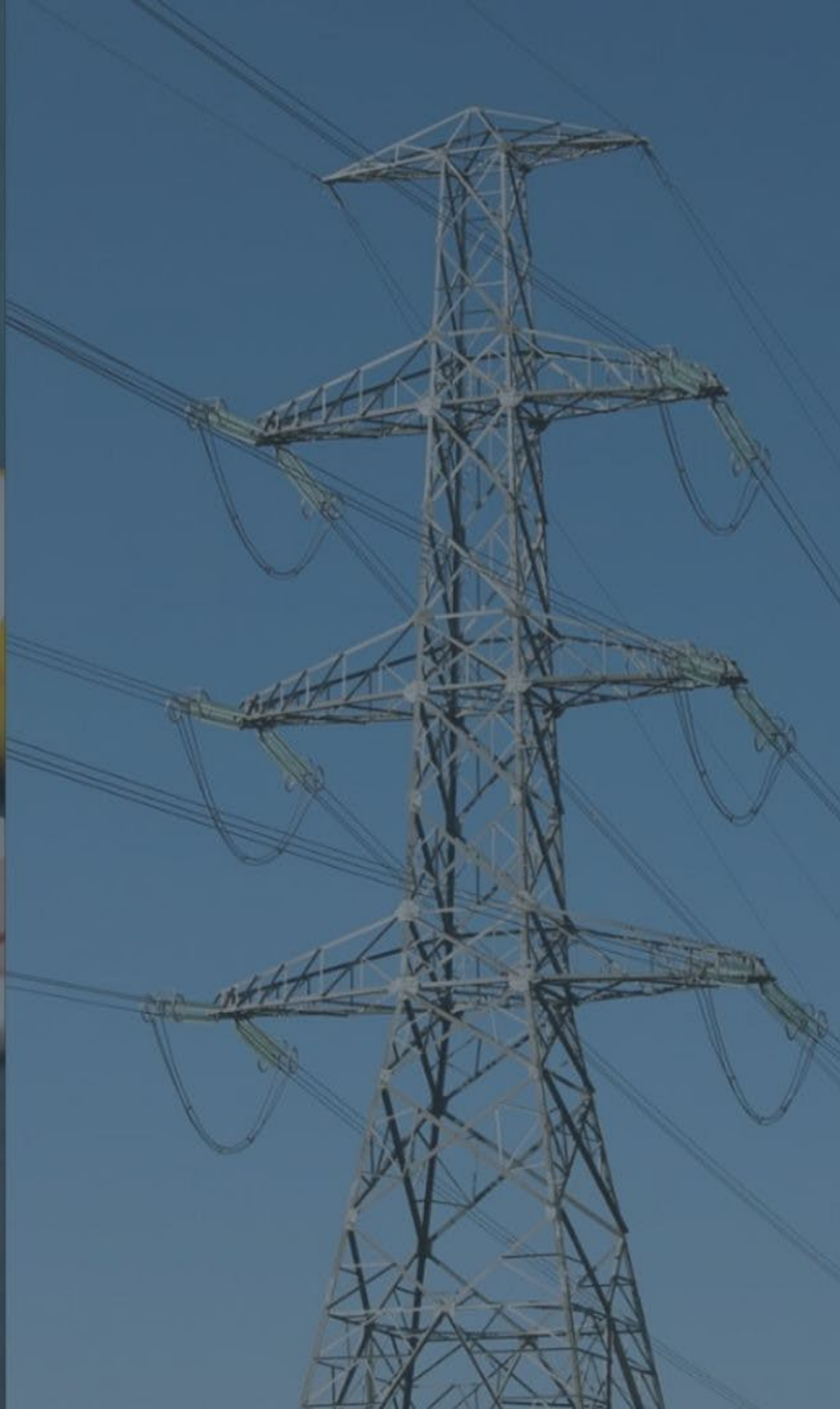




Consolidating North
Macedonia's Institutional
Framework for Circular
Economy Transition

SKOPJE, OCTOBER 22



BACKGROUND

02

2000

Veze Sharri was established as joint German -Macedonian investment with construction of farm intended for breeding of day -old chicks and laying hens

2002

Commencement of the production and by the end of the year, 4,3 million table eggs have been produced

2005

Construction of the manufacturing plant Lecker for production of meat products and meat preparations

2007

Commencement of the operation of Lecker while the Veze Sharri farm increases to capacity to 120.000 laying hens and achieves production of 35 million table eggs on annual level

2008

Lecker -NS located in Republic of Serbia commenced its operation

2013

Initiated the construction works of the plant for production of biogas and electric power – Elektro Sharri

2015

Initiated works on the agricultural land with many cultures in the Prilep region with total area of 750 ha





ELEKTROS



Facing with the daily issue related to the appropriate treatment of the by-products of animal origin and waste from the production, in 2006 the management started considering about most relevant solution

In 2012 decision has been adopted for construction of biogas thermocentral in v. Trebosh, Tetovo.

In 2013 the construction works commenced financed by own resources and in 2015 it becomes operational

The German experience combined with national support enabled this plant to offer to the Macedonian market electric power from alternative reusable and ecologically acceptable sources of energy

Methane-effect of greenhouse

The capacity of the plant is 600 m³ biogas and electric power is 999 kWh, and annually produces 8.760.000 kWh with combustion of 4.500.000 m³ of methane





The raw material base for operation of the plant consists of by-products of animal origin collected from the own farm and surrounding 3 farms, by-products from food production establishments (whey, alder, grape pulp), plant base from own production and purchased (corn silage)

Daily needs 50-60 tons

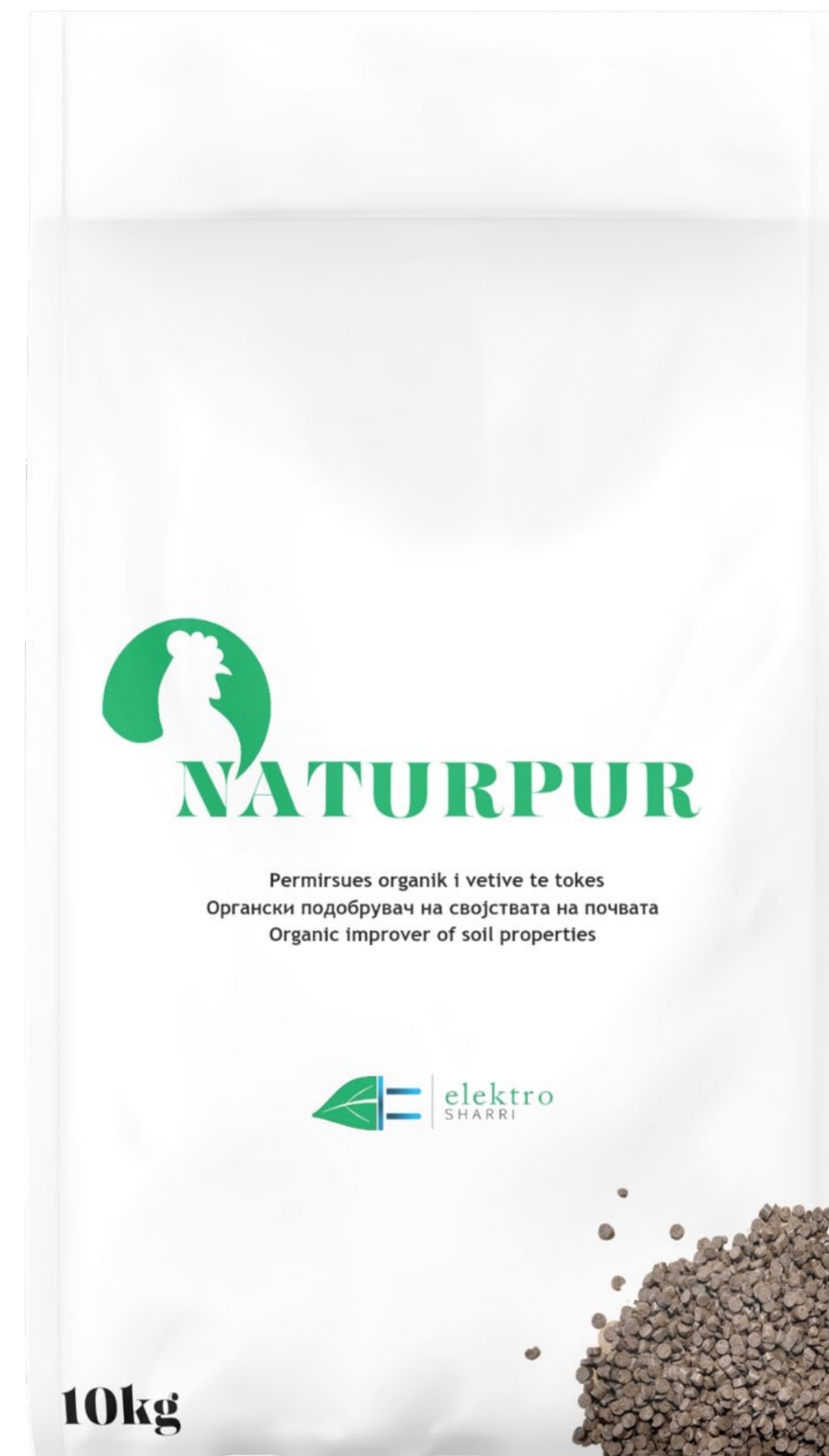
We do not treat the by-products as waste, but as source of reusable and ecologically acceptable energy

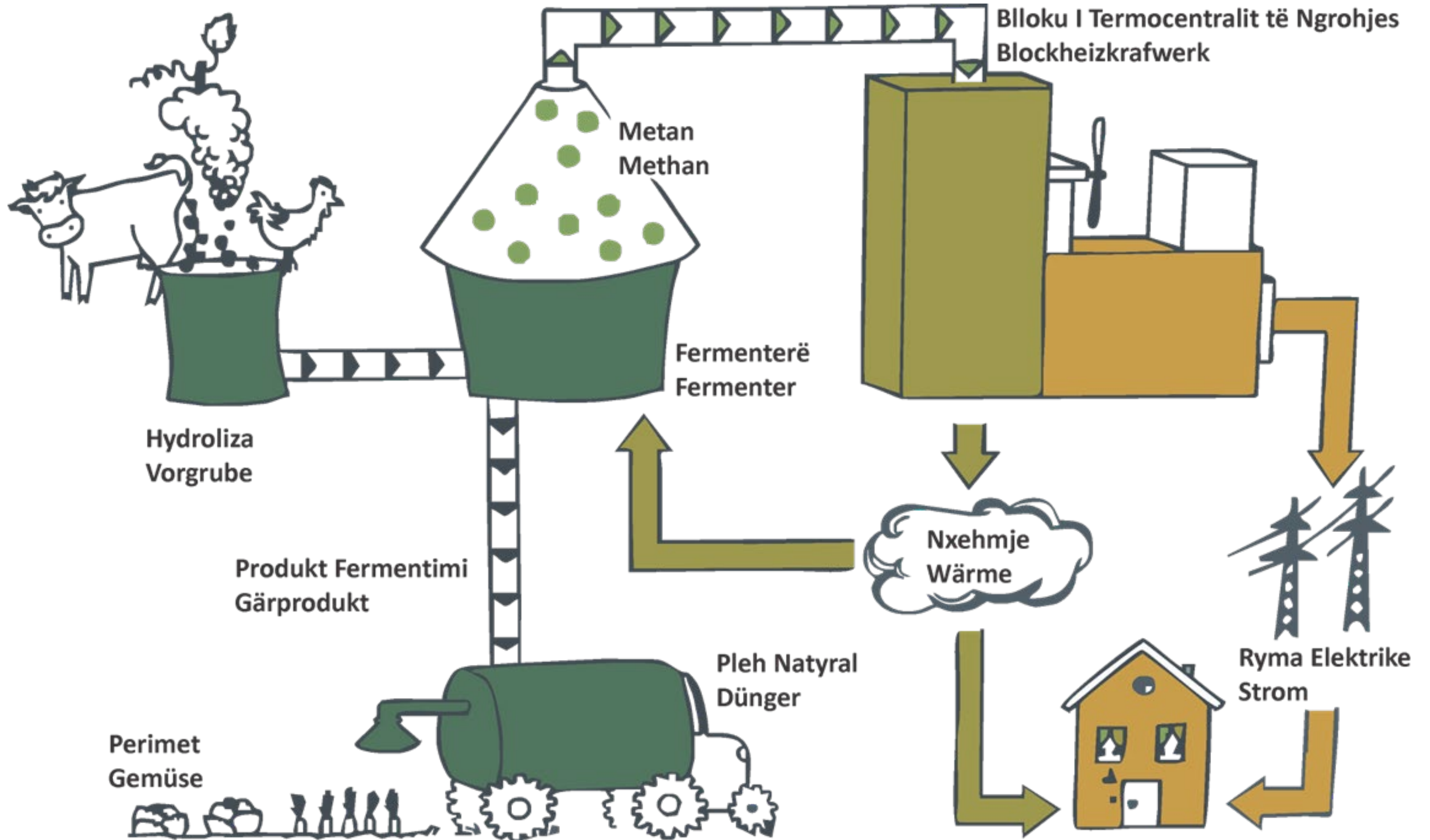
The residues from the fermentation process, after obtaining the methane and the electric power, are reprocessed and organic soil improver is obtained with exceptional composition of necessary macro and microelements for plant feeding, in quantity of 8000 tons on annual level

Since 2017, Elektro Sharri has been introduced onto the list of establishments approved for export of Animal By -Products classified under Regulation (EC) 1069/2009 as Category 2 (moderate risk materials) into the European Union

The organic soil improver **NATURPUR** by Elektro Sharri is authorized for placement on the domestic markets and exports by the Ministry of Agriculture, Forestry and Water Economy

- It is used in the agriculture, forage crops, forage cultures, tobacco production, gardening, orchards and viniculture, as well as in floriculture and ornamental plants.





PROCESS

ANAEROBIC DIGESTION – BIOLOGICAL PROCESS WITH
USING OF USEFUL MICROORGANISMS

HYDROLYSIS

FERMENTATION

SENSITIVITY TO TEMPERATURE (52-53°C), PH AND OTHER
ENVIRONMENTAL FACTORS (AEROBIC MEDIUM,
ANTIBIOTICS, AEROBIC MICROORGANISMS ETC.)

GOLD LAND



Agricultural land in the Prilep region with area of 750 ha, in total 1000 ha including land in Tetovo region



Processing of agricultural land with several types of agricultural cultures intended for the Veze Sharri and Elektro Sharri

MISSION

Developed high consciousness and obligation for protection of the environment with implementation of:

- ecologically acceptable production technologies
- using of ecologically acceptable raw materials and packaging materials

Development and sharing socially responsible awareness with emphasized participation of the company in the social structure

We cooperate with 3 big farms in the collecting of animal waste without any fees. This contributes to reducing their operating costs

The economic utilization of the by-products creates additional financial incomes. This leaves us room for independence and jointly with different NGOs financing activities in the field of environmental protection, education, sports, culture and the protection of socially vulnerable categories of citizens

Plans and Challenges

To continue with further investments in production technologies that are environmentally acceptable

- e.g. procurement of new egg grading and packaging machine co-financed by EU from EU for economic growth program and GIZ;

Expanding the list of suppliers of environmentally acceptable raw materials and packaging materials

Lack of awareness of the importance of environmental protection

Unsatisfactory level of implementation of regulations

Lack of financial resources for investments in infrastructure and technologie

THANK YOU FOR ATTENTION



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