

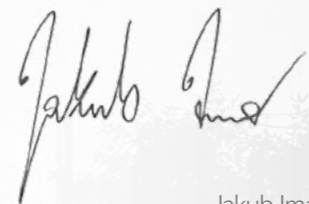


We are pleased to present this catalogue, introducing our company and range of services. It all began 70 years ago when my grandfather started working in a distillery, evolving several generations to today offering a much broader scope of distilling capabilities.

Currently we are focused on developing our R&D Department to implement our idea of the closed-circle economy concept at our plant. We produce alcohol from grains to the finished product, and we increasingly use waste as our energy source. We are

striving to minimise the amount of raw materials and waste. In addition, we are an important part of the local economic chain. We support and cooperate with local farmers. We believe in long-term business relationships.

You are welcome to contact us and visit our production plant in Murowana Goslina (Poland).

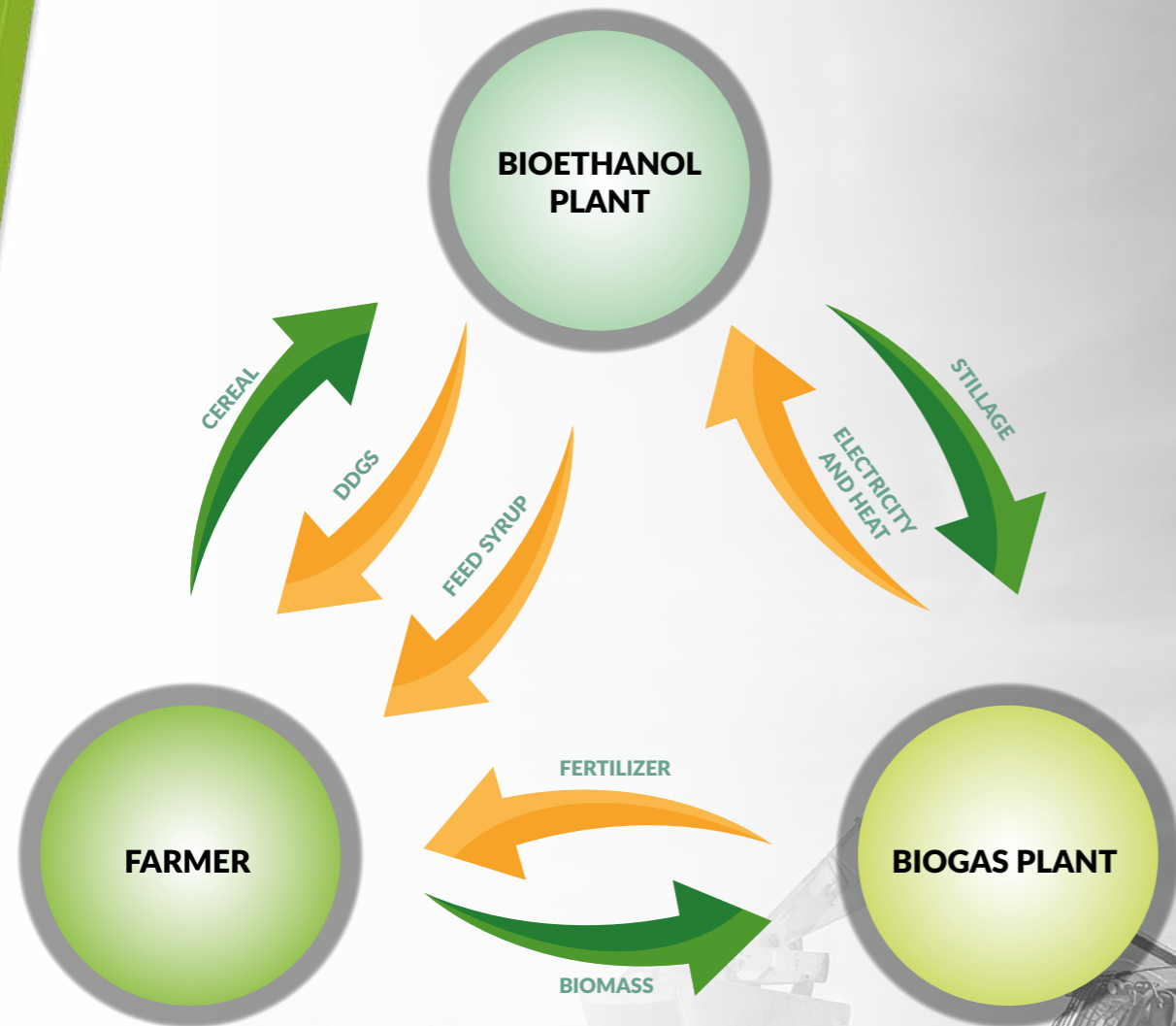


Jakub Ima
Chief Executive Officer

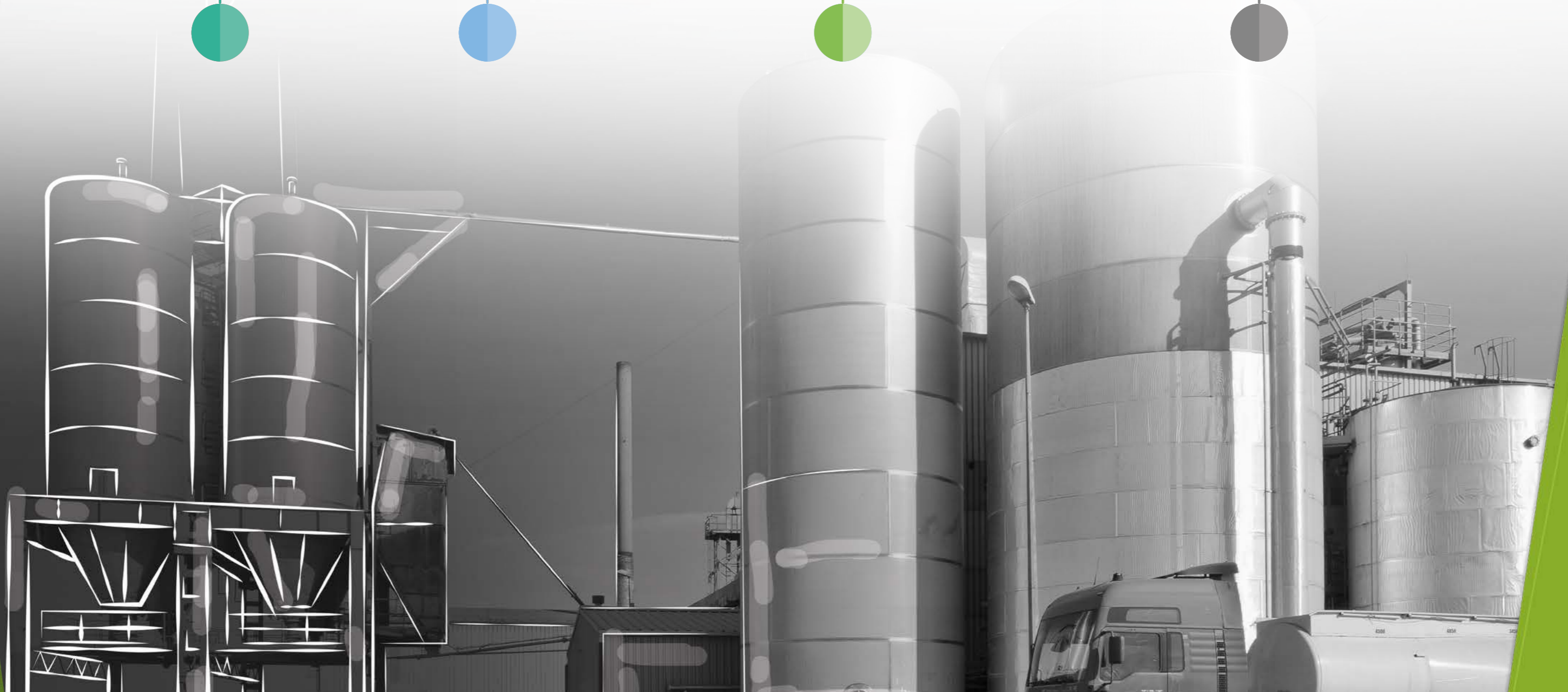
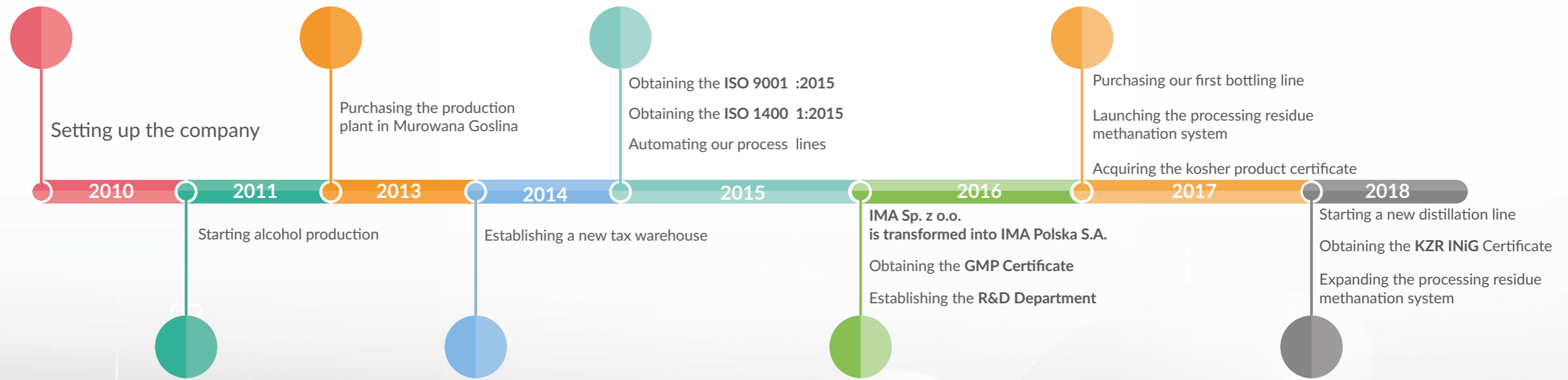


THE SUSTAINABLE ENERGY CENTRE

The Sustainable Energy Centre is our own approach to the idea of closed-circle economy. In our activities in the Polish spirit sector, we try to combine conventional industry with innovative energy solutions. This allows us to offer the finest & highest quality of products at competitive prices, while keeping in mind our environment and the healthy local community.



Company history



BEVERAGE GRADE ALCOHOL



Raw alcohol is dedicated to alcoholic drinks producers who have their own rectification installation. Raw alcohol may be made of wheat, rye, triticale or corn, but also of a cereal mixture with proportions specified by the customer. Each batch of alcohol is tested by gas chromatography to ensure that the product meets the customer requirements.

For the producers of vodka or spirit drinks which do not have their own rectification installation, we recommend ENA - rectified alcohol with a strength of 96%. ENA features a low impurity level as well as a taste and odour typical of the applied raw material. The rye and wheat based rectified spirits are sharper in taste and more distinctive, that is why they are recommended for the production of high-end pure vodka. The corn based rectified spirit is milder and has a slightly sweetish aftertaste, so it is often used for the production of flavored vodka or spirit drinks, as well as in the confectionery industry and to produce food aromas.

To other food production companies, in particular vinegar producers plants, we recommend REN grade alcohol. REN features a reduced impurity level (even below 200 g/hlpa), is kosher and does not contain pyridine, and additionally its repeatable supply quality ensures stable results of vinegar fermentation.

TECHNICAL ALCOHOL

Presently alcohol can be found in many cosmetics, which use its following properties: it acts as a bactericide, dissolves grease, can be used as a preservative, protects against bacteria, reduces the inflammatory condition, and acts as an antiperspirant. For our clients from the cosmetics industry, we can offer ENA (Extra Neutral Alcohol), whose odour, typical of alcohol and without any foreign additives, is delicate and barely perceptible, which is why the product is excellent for cosmetic mixtures.

Our product range also includes bioethanol (dehydrated ethyl alcohol with a strength of min. 99.7%) intended for fuel production. We obtained the KZR INiG Certificate, which proves that our products comply with the EU emission requirements, as well as the ITWL Certificate proving conformity with the bioethanol standard. For dehydrated alcohol production, we use a technology of molecular sieve absorption.

Our ethanol is widely used in the pharmaceutical industry. Pharmaceutical dehydrated ethanol and the rectified pharmaceutical ethanol with quality complying with the European Pharmacopoeia 8.0, are ingredients in many medical preparations as well as excellent disinfectants.

In winter, we can observe an increased demand for ethanol used for the production of windshield washer fluids. For this application, we recommend using the REN of min. 95.0% strength. The REN features a low level of fusel oils with a mild odour in the final product. We also offer a ready-made windshield washing concentrate, whose colour, fragrance, crystallization point and the content of surface-active agents may be customised by the client.

All our alcohols can be denaturated according to applicable regulations and the client demand. We offer full denaturation in accordance with the Commission Regulation (EC).



PURCHASE OF GRAIN

Every year, we purchase grain for production purposes. We collect thousands tons of corn per annum. We are oriented to long-term cooperation, especially with local farmers. Our biggest advantages are very fast supply handling and a precise evaluation and testing of raw materials.

DDGS

A high-protein dried material derived from stillage is a by-product of ethyl alcohol production. Due to its high-protein and high-energy properties, it is used as an animal feed. The DDGS produced in our plant in Murowana Goslina is one of the best products in Poland. This comes from an advanced technology developed by a reputable company called GEA Barr Rosin.

FEED SYRUP

Feed syrup is produced using evaporators. It has a dense consistency and a golden colour. Depending on the demand, it may contain 25% to 50% dry matter. It is an excellent source of protein and fat useful in cattle and pig breeding. It is used in wet feeding cycles.



Our laboratory staff are specialists with many years of experience in research and development. The knowledge and experience of our personnel enable us to carry out research that meets top quality standards. Our employees determine our company's potential, which is why we invest in continuous training and education giving access to the latest scientific methods.

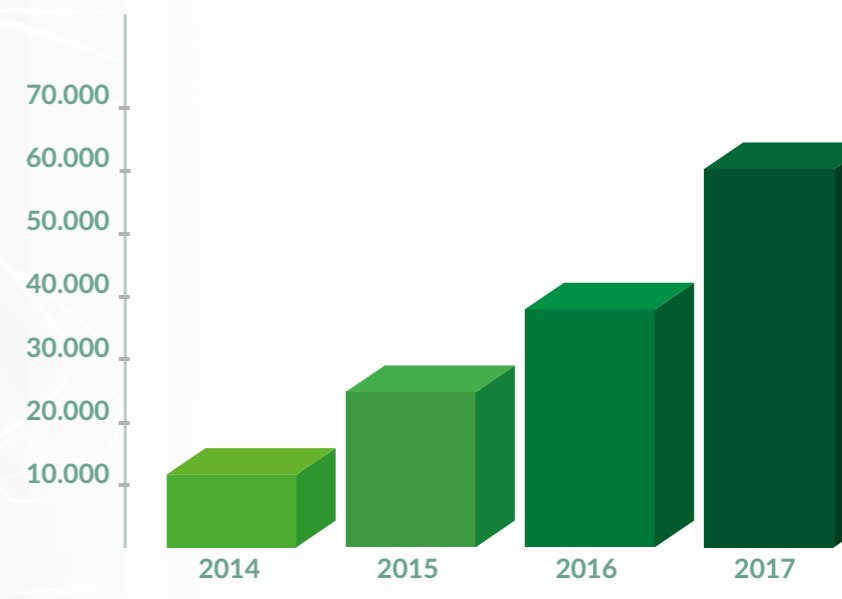
Our internal chromatography laboratory has two gas chromatographs and one liquid chromatograph. Daily we conduct 30 analyses per day. The chromatographs operate independently. The time of a single analysis is 25 minutes.

Our biogas analyses and the measurements of process water parameters are performed on an UV-VIS spectrometer located in our chemical analysis laboratory.

Raw material is crucial for the production process, so we pay particular attention to grain quality. We control the contamination level, and with our NIR device we test the contents of starch, fat and proteins in each batch of raw material.

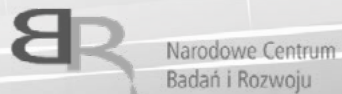
We act according to the accepted standards: ISO 9001:2015; ISO 14001:2015 and HACCP. Our products are GMO-free and produced in compliance with the REACH Regulation.

Number of laboratory analyses



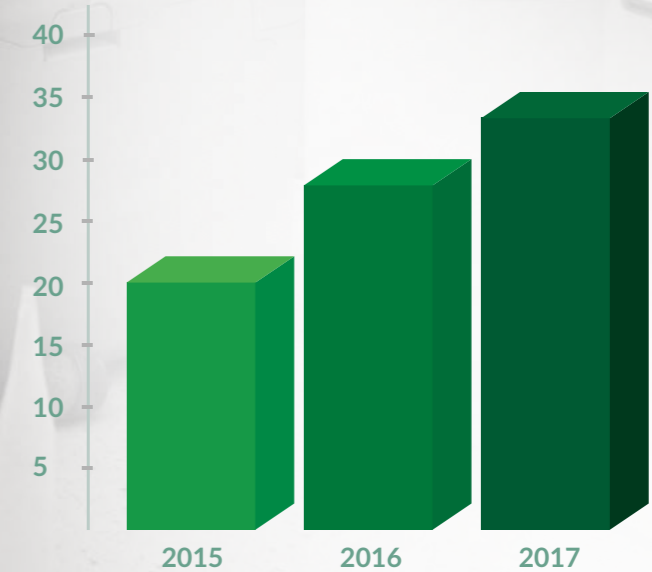
In the period between 2016 to 2018, IMA Polska, in collaboration with the National Centre for Research and Development, carried out the project called 'Research and Development Works for the Management of Agri-Food Waste'. As part of the programme, we tested various agri-food wastes and evaluated whether they can be used for methane fermentation. The analysed compounds included ChZT, BZT, general nitrogen, sulphates and SMO. Owing to the experience gained, we have designed and built a pilot biogas plant that uses microfiltration membranes, and we continue the research constantly improving our technologies.

Our R&D Department is specialised in developing modern testing methods and industrial processes as well as in extensive analytical and micro-biological tests associated with the distilling and spirit sectors and methane fermentation control. It also participates in implementation works and the development of new production standards.

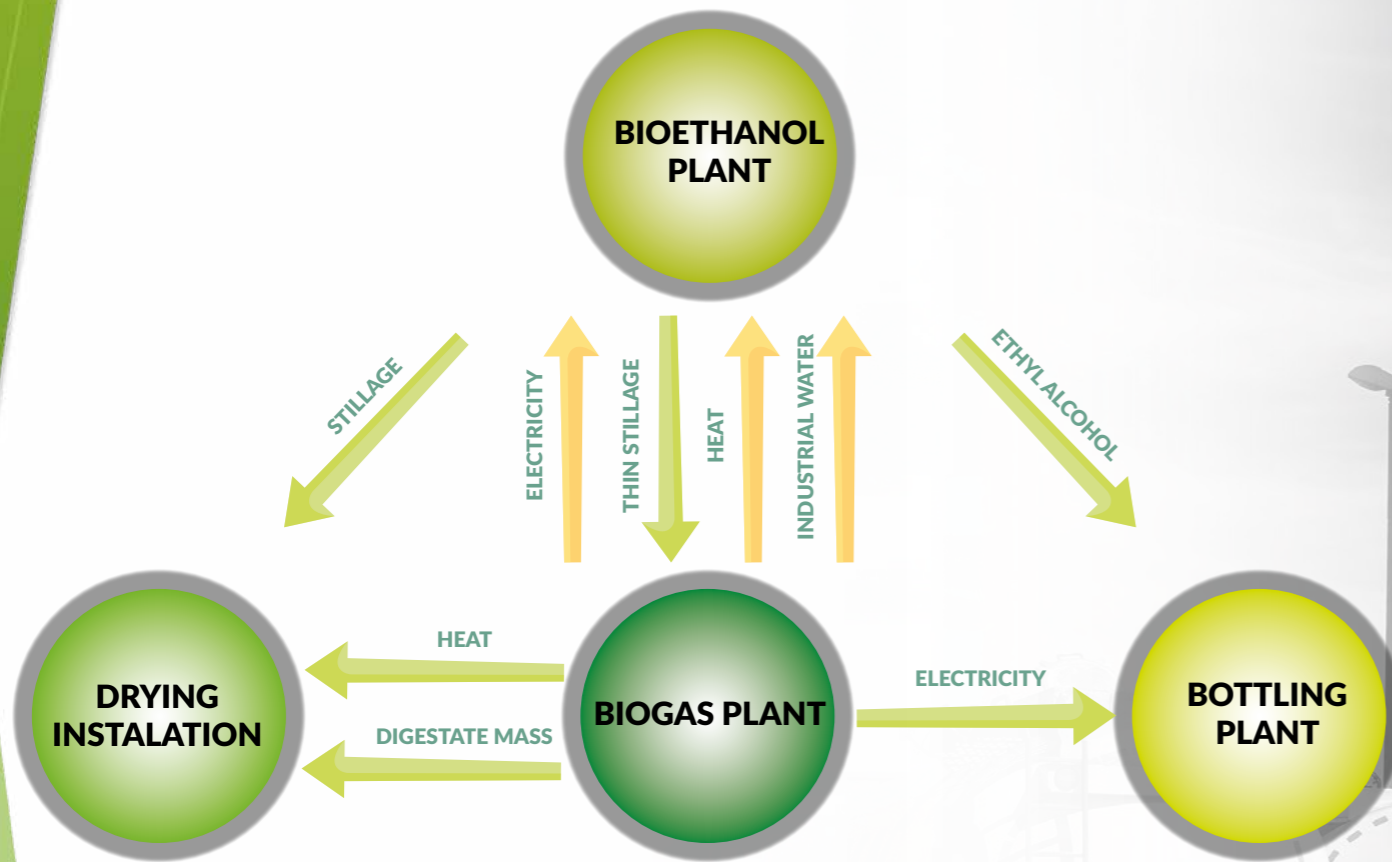


Narodowe Centrum
Badań i Rozwoju

Number of compounds detected with the GC method

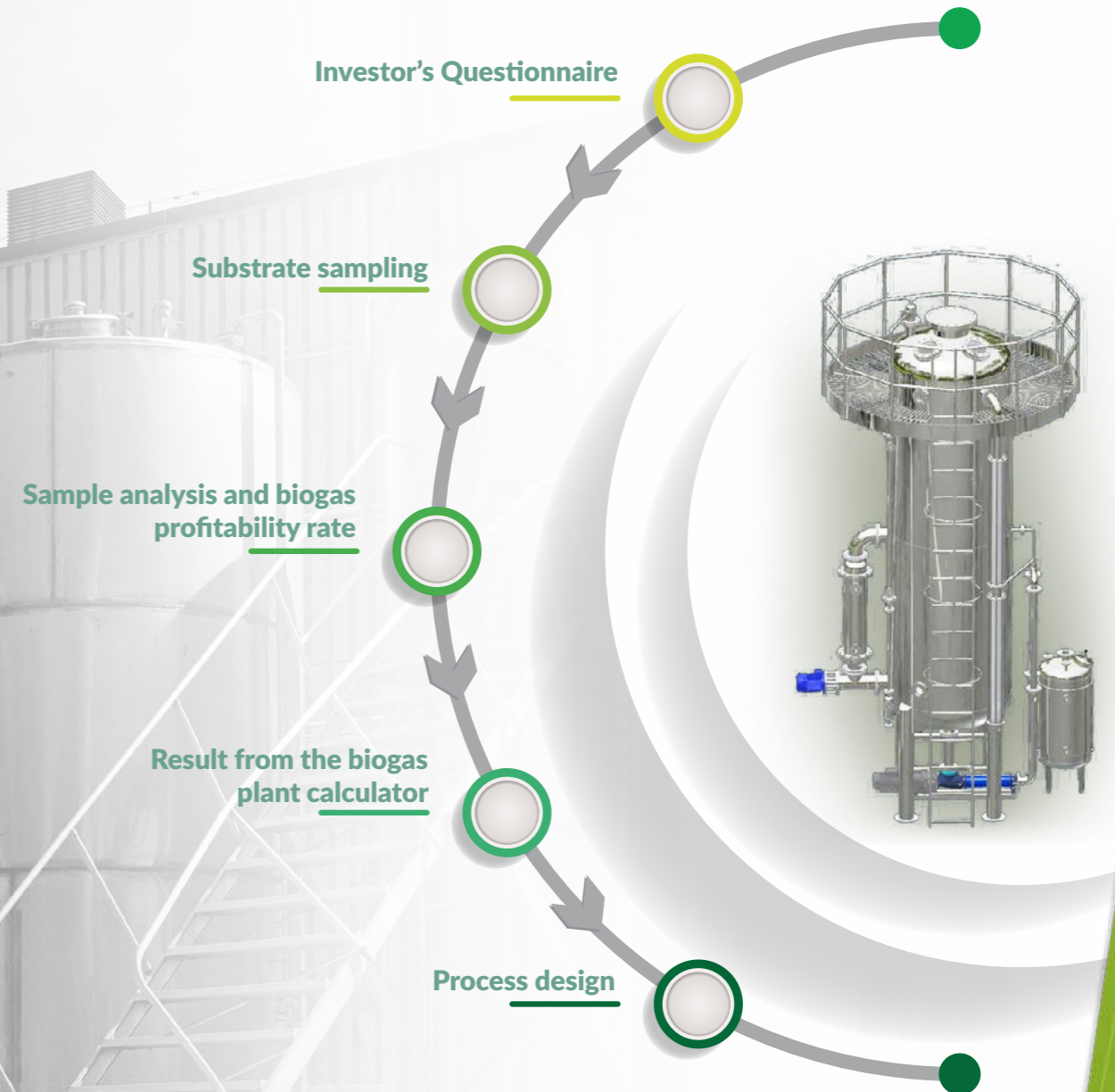


At our Sustainable Energy Centre, we have a biogas production system that feeds the plant with electric power and heat. We use thin stillage as a substrate. The system was built based on our own technology developed by the R&D Department. In the future, we plan to prepare an offer of green energy and bio-methane. This will allow us to reduce the carbon footprint in our products.



Based on the experience gained during the construction of our own biogas plant and the application of our own solutions, and based on the knowledge of specialists in the field of biogas and information obtained in the NCBiR project, we have developed our own biogas plant technology, which we can offer in the form of a license.

PLANNING PHASE





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GOSLINA



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