



# Company Profile & Activities



**BRIGHT**  
ENGINEERING

# Who are we ?



Bright Engineering Ltd. was established in May 1999 by the automation engineer Mr. Dinko JeleV. Being one of the pioneers in implementation of automated control systems and modern field instrumentation in chemical industry of Bulgaria, Dinko JeleV invested his knowledge and experience in the development of the company and strengthening of its positions.

For the period from its establishment until present days, the company has become one of market leaders in Southeast Europe in different areas of industry : industrial equipment, instrumentation, heating systems, monitoring systems for turbines and compressors, equipment for potentially explosive atmospheres, analytical systems, project management, maintenance, optimization and construction of complete industrial installations.

Guided by our belief in sustainable development, we strive to develop technology, relying on the people. Bright Engineering teams is composed of more than 100 + highly qualified specialist, more than 60 of them – engineers. Over 80 % of company annual profit are invested back in equipment, production facilities and most of all – in improving the qualification and remuneration of the people working in the company.

Our mission and philosophy is to be a solution provider of complete “turnkey” engineering solutions and products for all of our existing and potential customers.

We believe and still keep our team to act, work and breath as family.

# Where are we located ?

We offices located in heart of Balkan peninsula - Bulgaria, Romania, Serbia and recently opened office in Slovakia we can cover territories of Balkans and Turkey.



# What we offer ?

Bright Engineering Ltd. can provide complete portfolio of engineering services and procurment as : Feasibility studies, Design and Erection, Construction and Infra-structure, Process Engineering, Automation and Control Engineering, Piping etc in following business sectors :

- Oil&Gas (Midstream, Downstream)
- Chemical
- Energy production, including renewables
- Pharmaceutical
- Mining & Metal production

Our pasionated team is strongly involved with enourmous expirience in following areas :

- Rotating machinery diagnostics and asset managment platforms
- Enviromental services / products such as CEMS
- DCS / SCADA products and services
- Overhauling of rotation machinery and other heavy industrial equipment
- ATEX (explosion proof) equipment and services
- Heating / Cooling solutions and services



sat energy

Identify, Measure & Assess Condition Monitoring  
**MACHINE LIBRARY 2.5**



ATEX Equipment



Heating & Cooling Solutions



Emissions & Sensors



DCS/SCADA Solutions



Protection Enclosures & Shelters



Other Partners



## Feasibility Studies

Bright Engineering can conduct different application and industries feasibility studies. It is an essential first step in each project which focus on proposed plan of action and provide accurate estimation for overall project expenses.

## Conceptual Design

Based on our wide experience in process engineering, energy and our core know-how we can provide to our customers successful conceptual design.

## Pre-FEED Engineering

We have capability to deliver Pre-FEED (Preliminary front end engineering design) for clients in Oil&Gas, Energy, Chemical and Biotechnology sectors. These engineering services add further detail in short listed options and solutions ensuring better overall project estimation.

## FEED

Bright Engineering provides front-end engineering services to different clients in Oil&Gas, Energy, Chemical and Biotechnology sectors. FEED define all project requirements for detailed engineering, procurement & construction and supports in accurate manner project cost estimates.

## Detailed Engineering

Bright Engineering can cover full detailed engineering scope for all functions as : civil, mechanical, electrical, instrumentation & control (I&C). Our team is using his engineering excellence by complying state of the art industry practices and applying the most economical methods and designs.

## Design Review

At Bright Engineering, we conduct design review on behalf of our clients. The review focuses on all project functions such as civil, electrical and control. The review can be performed directly with customer or nominated customer design team.

## Feasibility Studies

Bright Engineering can conduct different application and industries feasibility studies. It is an essential first step in each project which focus on proposed plan of action and provide accurate estimation for overall project expenses.

## Project Management

Bright Engineering can offer project management services to variety of customers. Our involvement starts from earliest possible stage of the project until its final closure. We provide tailored project management services and team can suit customer procedures and requirements.

## Procurement

We at Bright Engineering can assist our customers in their project procurement process. Based on our experience we can create list of potential vendors, inquiry them and select nominated vendors both from technical and financial side of selection process.

## Commissioning Supervision

We can provide commissioning supervision services for all power, Oil&Gas, chemical and Biotechnology projects. Our experienced staff working closely with suppliers, contractors, vendors to ensure smooth transition from construction phase to operational phase of the project.

# Selected Projects

## Upgrade of WFGD Units- Maritza East 2

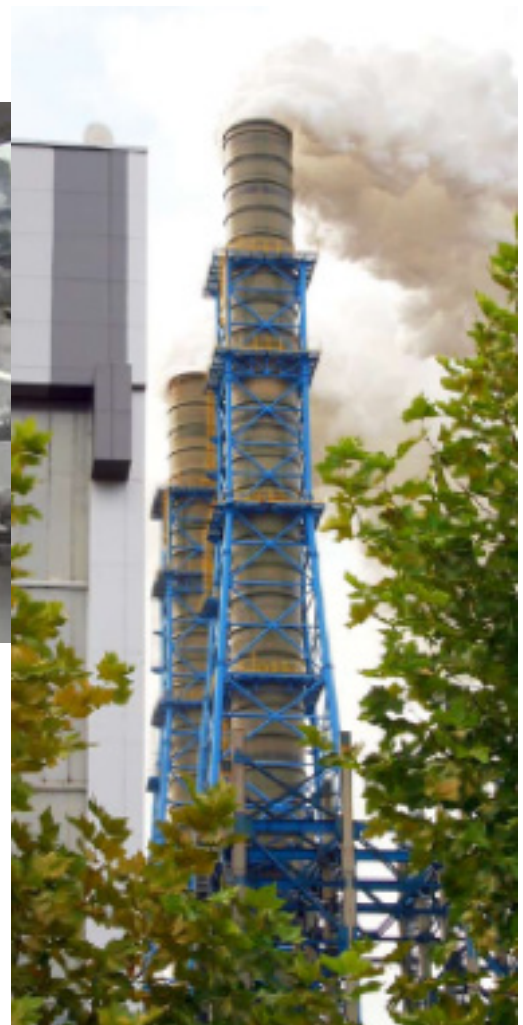
Increase of the degree of Desulfurization of WFGD Units 1-2 and 3-4 to minimum 97%

Project includes :

- new nozzles
- new wall rings
- new sulphite analyzers

Phase 1 : completed in 2019-2020

Phase 2 : completed in 2022.

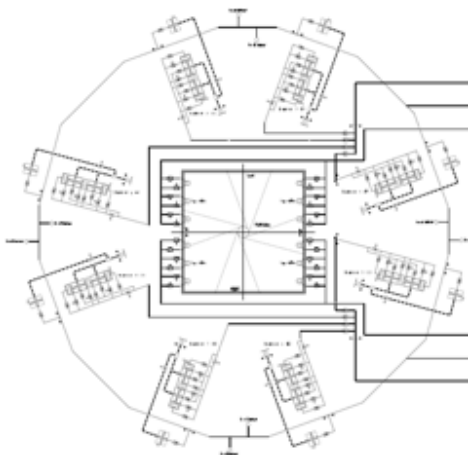


## Reduction of NO<sub>x</sub> Emissions - Maritza East 2

Upgrade of boilers 11 and 12 for reduction of NO<sub>x</sub> emissions below 200 mg/Nm<sup>3</sup>.

EPC contract, including :

- Preparation system
- Burning system
- Air
- I&C

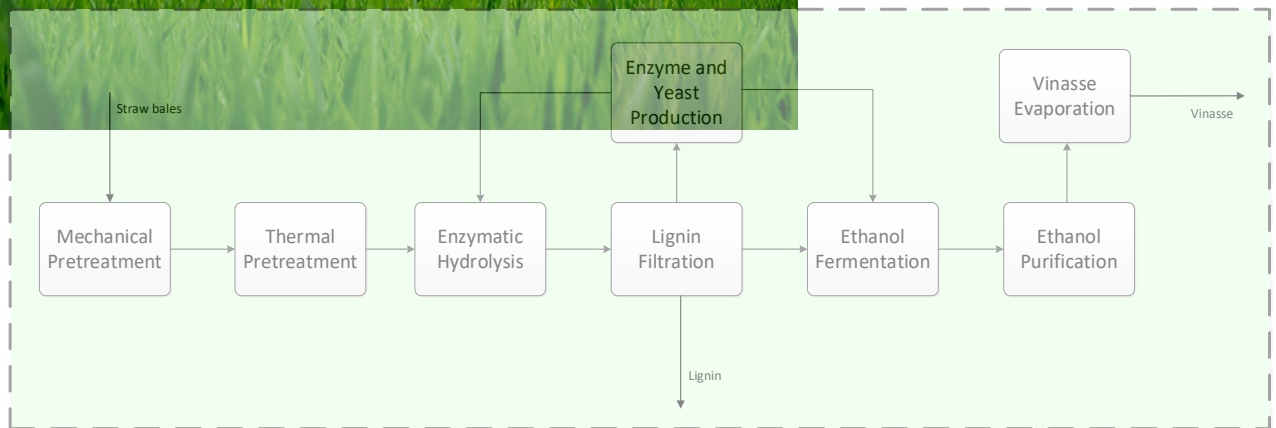


# Selected Projects

## Pre-design, authorization and engineering services for 2-nd generation of bioethanol plant under Clariant technology\

Bright Engineering is responsible for pre-design (Pre-FEED), FEED, authorization of basic design package and consultancy / engineering services. This includes :

- Main equipment (ISBL)
- Auxiliaries (OSBL)
- Water, electricity and natural gas connection and supply
- Waste management
- Logistics of raw straw and final production



- **FIRST OF A KIND IN REGION 2-ND GENERATION PLANT FOR BIOETHANOL FROM STRAW**



# Selected Projects

## EPC Contractor for Gas Metering Station “Strandja”

Bright Engineering was EPC contractor for natural gas metering station on interconnection pipe from Turkey to Bulgaria. This project include design and delivery of :

- 4 x Ultrasonic flowmeters Flowsick 600-XT @ DN400
- Gaschromatographs (GC)
- Fiscal metering system along with software platform
- Field instrumentation



# Selected Projects

## **Design,delivery of tank management system-OILTANKING BULGARIA**

Project includes design and delivery of :

- Overfilling system of 2 storage tanks
- Tank management system of (currently) 2 storage tanks and future expansion
- Upgrade of existing PLC and implement to existing SCADA system



# Future development

We in Bright Engineering truly believe in green energy, alternative fuel with low environmental impact, low carbon footprint. We believe that our future belongs to advanced technologies and solutions, and we intend to be a leader in providing services and products for the following sectors in 2030 :

- Production of biofuels (such as 2<sup>nd</sup> generation of bioethanol)
- Production of green energy (such as wind, water and sun)
- Production of green and blue hydrogen





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**[www.bright-eng.com](http://www.bright-eng.com)**  
**phone : +359 52 51 12 13**  
**[office@bright-eng.com](mailto:office@bright-eng.com)**