

# ENGINEERING EAD

Turn-key solutions

Engineering EAD is one of the companies associated with FILKAB AD. The company was established in 2006. It specializes in two fields – turn-key engineering solutions and production of electrical equipment.

Our clients do business with us because we strive to deliver the best products and the best services. In order to achieve this we invest in highly-qualified experts and modern equipment and technologies.

Engineering EAD is certified for the production of type-tested switchboards of leading European producers. The company has at its disposal modern production facilities and technologies, and all the necessary equipment for its business activities.

# ABOUT THE FILKAB GROUP

Over the last 20 years the FILKAB group of companies have focused their activities in three directions: wholesale of electrical materials, production of electrical equipment, and electrical installation projects.

FILKAB owns two subsidiaries in Bulgaria (Engineering EAD and FILKAB Solar OOD) and five subsidiaries in the region – in North Macedonia, Serbia, Romania, Turkey, and Hungary.



**FILKAB**

Supply, distribution, and wholesale of cables and wires, cable accessories, electrical and automation equipment, electrical materials, lighting equipment.



**FILKAB**  
ENGINEERING

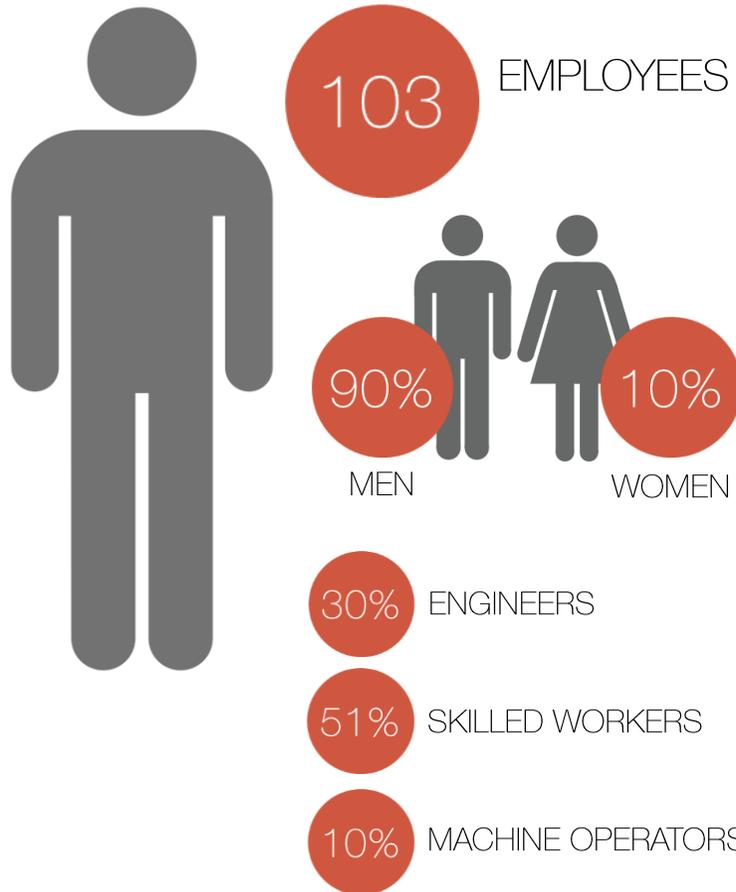
Production of electrical switchboards, CCTS, switchgear 24kV. Project management and construction – installation of electrical and automation systems.



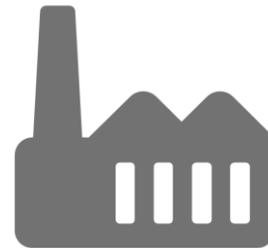
**FILKAB**  
SOLAR

Turn-keys Renewable Energy Solutions – design, materials supply, construction for utility-scale PV projects.

# ENGINEERING EAD IN NUMBERS



## MACHINES AND EQUIPMENT



- 2 CNC LASER AND PLASMA-CUTTING MACHINES
- 2 HYDRAULIC CNC BENDING MACHINES
- 2 HYDRAULIC CNC PUNCHING PRESSES
- 1 DR-CNC DISPENSING ROBOT FOR POLYURETHANE GASKETS
- 1 POWDER PAINTING LINE

16

BGN Million - Turnover  
in 2018

80

Projects completed in  
2018

16

Thousand pieces of  
equipment produced in  
2018

## CERTIFICATES AND LICENCES

In order to achieve its business ideas in the highly competitive environment, the company improves continuously.

- In 2014 an ERP system is adopted, in order to optimize the operations.
- The same year the company is certified in accordance to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007.
- Engineering EAD holds licences from established European producers

License by Schneider Electric - France, for the production of “Prisma” type boards.

Licensed panel builder of modular switchboard systems by Legrand – France.

Licensed builder of Distribution substations SM6 from Schneider Electric – France.

In 2018 our ship-application electrical switchboards 630A were certified by Bureau Veritas to be used by MTG Dolphin shipbuilding company

## DESIGN

The company has a team of experts who specialize in design and engineering. They have vast experience in the design and construction of projects in the fields of electricity transmission and distribution, and industrial automation and control.



## PRODUCTION

Engineering EAD owns production facilities and equipment for:  
Sheet metal processing, punching, welding, pressing, powder painting, assembly of metal structures.  
Production of electrical switchboards, concrete transformer substations, switchgear.



## INSTALLATION

Engineering EAD has its own transport and installation equipment thus guaranteeing high-quality and on-time installation and adjustment activities.



## COMMISSIONING

Engineering EAD has its own professional teams who carry out the commissioning of the custom-made products. We take care of all the testing before the commissioning and we also offer warranty-period and post-warranty period technical servicing.



# Transformer Substations

## PRODUCTION

We manufacture different types of transformer substations – concrete, metal, or underground for cable lines of up to 20kV for the residential and industrial markets. These substations are stand-alone structures which can be serviced internally and externally.

The substations are ready-to-use products which consist of transformer/s, distribution equipment MV(up to 20kV), LV (up to 0.4 kV) equipment, and all addition equipment that is required by the government regulations and the customer requirements.

The production capacity of the company is 30 transformer substations per month.



# CCTS

## PROJECTS COMPLETED

Our main customers are the utility companies in Bulgaria and Macedonia – EVN, CEZ and Energo Pro, as well as many other private customers in Hungary, Cyprus, Romania, Serbia.



CLIENT | National Company Industrial Zones  
PRODUCT | CCTS 1 x 630kVA

CLIENT | Kostal Bulgaria Automotive  
PRODUCT | CCTS 3 x 1250kVA

CLIENT | FILKAB Solar Hungary  
PRODUCT | CCTS 2 x 800kVA and 3 x 1250 kVA

CLIENT | Industrial Park Markovo  
PRODUCT | CCTS 1 x 800kVA

CLIENT | Etra EL EOOD, Veliko Tarnovo  
PRODUCT | CCTS 1 x 250kVA and 2 x 800kVA

# SWITCHGEAR

# PRODUCTION

Engineering EAD holds a license by Schneider Electric for the production of Switchgear SM6. We produce the entire standard range of Schneider Electric, as well as, custom-made modules according to clients' requirements.

We also provide different SF6 insulated switchgear such as Siemens 8DJH, Schneider Electric FBX and RM6.

We keep in stock the standard configurations switchgear. This enables us to provide fast delivery of the products to our clients.



# SWITCHGEAR

## PROJECTS COMPLETED



CLIENT | NG Technology, Sofia  
PRODUCT | SM6 IM + QM

CLIENT | ZAVN Dobrich AD, Dobrich  
PRODUCT | SM6 IM

CLIENT | ELCOM-MD OOD, Varna  
PRODUCT | SM6 IMM

CLIENT | EL Group 07 ML EOOD, Sofia  
PRODUCT | SM6 2 IM + IMM + QM

# ELECTRICAL SWITCHBOARDS

PRODUCTION

In our portfolio you will find -

- Main LV Distribution and Metering boards, Panels Automation and Control switchboards, Electrical boards for residential and commercial buildings, Electrical meter boards, Arrestor switchboards, Distribution cassettes, Metal boxes for electrical boards IP65 FILBOX, Modular boards SHN – 200x900 with depth 200 ÷ 800 mm, Power distribution switchboards



# ELECTRICAL SWITCHBOARDS

## PROJECTS COMPLETED



CLIENT | Biovet AD  
PRODUCT | Electrical Switchboards 4000A

CLIENT | Kostal Bulgaria Automotive  
PRODUCT | Electrical Switchboards 400A

CLIENT | Multivac  
PRODUCT | Electrical Switchboards 3200A

CLIENT | MTD Dolphin  
PRODUCT | Ship electrical switchboards 630A

CLIENT | EVN, Energo Pro, CEZ  
PRODUCT | Electrical Switchboards - LV and Meters

## CONTACTS



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