



# TECH SOLUTION 4U s.r.o.

Technical Solution for your company

# Short guide

## Our two years presentation

- ▶ We are a developing company founded in January 2021 by a project manager with more than 10 years experience in petrochemical and energy industry.
- ▶ All our workers have long experience with work in petrochemical or energy industry and they were selected by the company's founder according to his personal experience with quality of their work.
- ▶ All our workers have SCC or similar Health and safety training.
- ▶ We do not only EPC projects. A client's request is discussed on briefings prior any price offer. We offer the BEST suitable Solution for the client to meet all his wishes, ideas and requirements.
- ▶ We have employees across specializations, helpers, fitters, foreman, welders, scaffolding specialists, insulators and painters, technical and quality managers.

# Next presentation of our previous finished works

2021

# 2021 - INGOLSTADT - Germany

Installation of Aluminium internal floating roofs 2pcs - diameter 36m



# 2021 - GENT - Belgium

Cleaning and renovation of paintings on tanks



# 2021 - FRANKFURT - Germany

Installation of Aluminium internal floating roofs 3pcs - diameter 52m



# 2021 - GENT - Belgium

Installation of Aluminium internal floating roofs 6pcs - diameter 36m



# 2021 - GENT - Belgium

Installation of heating coils in a tank - volume 25.000m<sup>3</sup>





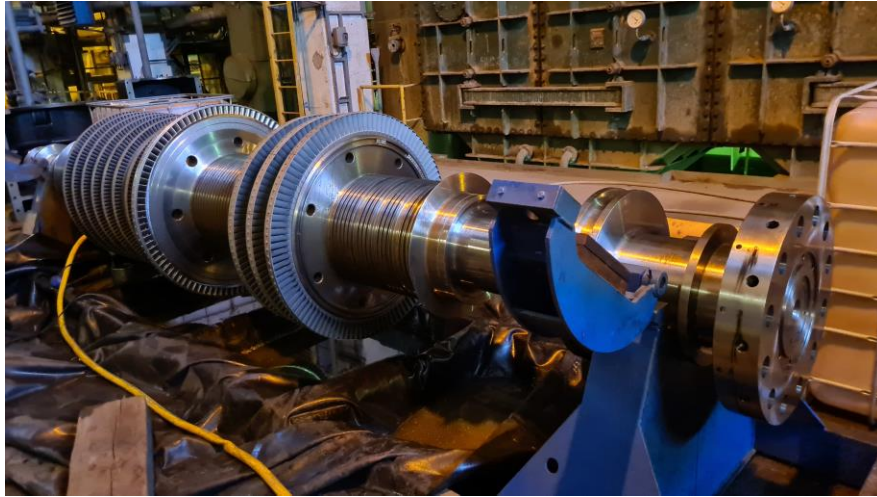
# 2021 - GENT - Belgium

Renovation of pipes and valves in a tank park



# 2021 - POČERADY - Czech Rep.

Cleaning and renovation of turbine rotors



# Next presentation of our previous finished works

2022

# 2022 - GENT - Belgium

Renovation of paintings on tanks



# Boiler reparation works

- ▶ June - August : Slovakia - Zvolen
- ▶ September - November : Czech Republic - Kolín
- ▶ October - March 23 : Germany - Bremen

# Classic and Nuclear power plant maintenance works

- ▶ April - May : Czech Republic - Nuclear power plant Temelín
- ▶ June - July : Czech Republic - Coal power plant Počerady
- ▶ July - August : Czech Republic - Coal power plant Tušimice
- ▶ August - September : Czech Republic - Nuclear power plant Temelín

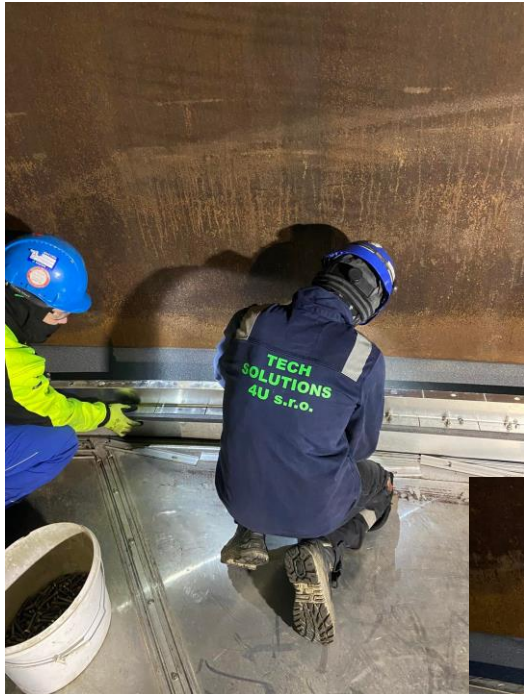
# 2022 - 2023 Bremen - Germany

Pipe work on boiler



# 2023 - Burghausen - Germany

IFR sealing repair



# November 2022


## Start of cooperation with PROTEGO

- ▶ We became an official service partner for company PROTEGO
- ▶ We can provide their safety valves and other devices
- ▶ We have certificates to install and service their devices
- ▶ We can provide and install internal floating suction from PROTEGO





# WHAT WE CAN OFFER

- ▶ Engineering - static calculation
- ▶ Health and safety manager
- ▶ Selected workers for mechanical maintenance, helpers and fitters
- ▶ Welders for welding by electrodes, CO and TIG, possible Inox welders
- ▶ Team for building scaffolding (possible to rent scaffolding or use own)
- ▶ Team for insulation works (insulation of tanks and pipes especially)
- ▶ Team of painters for usual paint jobs, but also with blasting machine and using special paints or passivation of inox.
  
- ▶ Official service partner for PROTEGO 

# Our special works

## Cleaning of a tank

- ▶ Why do you need to do this?
- ▶ All tanks are big cans with a thin cover. It looks very solid, but in proportion, usually thickness of its wall is less than of a beer can. When you heat up air or product inside, pressure grows. An empty tank can increase its pressure inside 10 times, if the roof and the wall are other than white colour.
- ▶ Dust and dirt on the walls and mostly on the roofs can be dangerous because it decreases reflexive ability of white paintings.

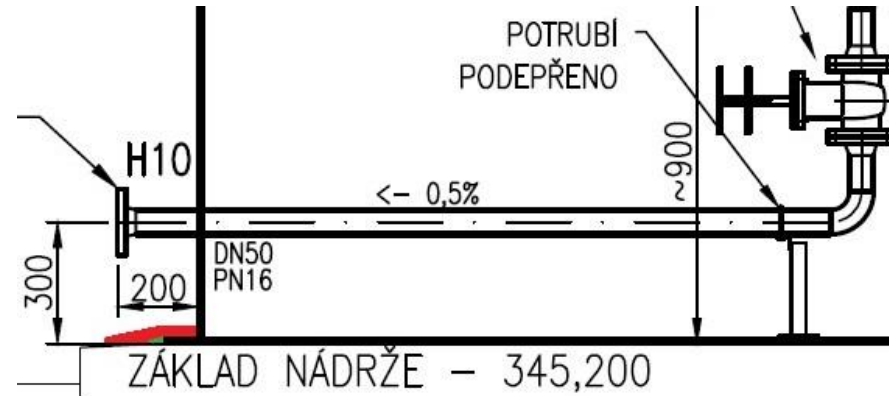
- ▶ But . . . It is much more dangerous when there is underpressure. If the sun increases its pressure, there can be a problem with decreasing pressure in the evening, especially during winter, because the construction may collapse.
- ▶ We can clean all tank walls by hot water high pressure machine from scaffolding or a cherry picker.



# Our special works

## A tank's bottom protection

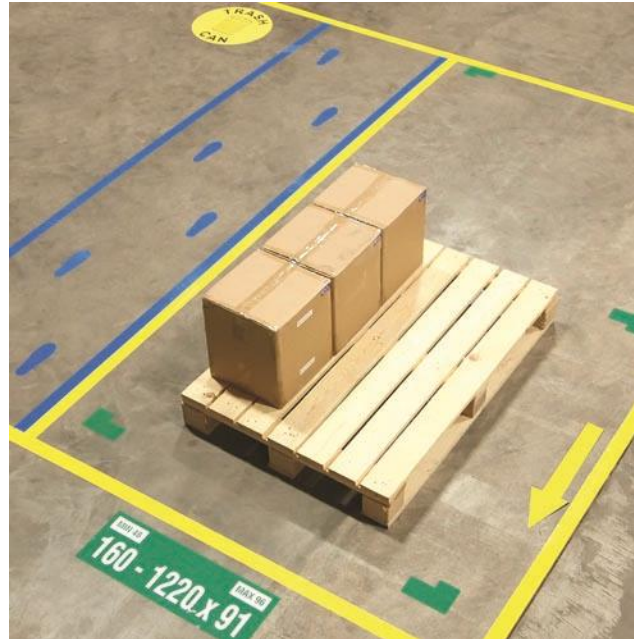
- ▶ Why do you need to do this?
- ▶ One of the problems of tanks is humidity or in worse case water under the tank's bottom. Big steel plates of the bottom are not perfectly flat and they are not connected to the concrete layer over the entire breadth and at all spots.
- ▶ The best Solution in such case is to protect the bottom from the leaking water or humidity beneath.
- ▶ We have a special system for this kind of protection.



# Our special works

## Marking area

- ▶ Why do you need to do this?
- ▶ Are you considering how to increase effectivity and safety in your work processes?
- ▶ As a solution use marking on the floor. Make corridors for walking, make corridors for transports. Mark special places for goods, tools and etc.
- ▶ We can prepare project and calculation for you.



# Our special works

## Paint tanks inside and outside

- ▶ Why do you need to do this?
- ▶ It is important to protect steel by special paint to stop corrosion after cleaning.
- ▶ First important step is blasting, after that comes special coating.
- ▶ Considering this process, you may build tanks with thinner walls and still their service life will be longer.
- ▶ We offer 5 years guarantee.



# Our references 2021 - 2023

- ▶ 2021 Gent / Belgium - Gent Tank Storage - paintings and maintenance, tanks and pipes
- ▶ 2021 Gent / Belgium - Max Terminal - instalation of internal floating roofs
- ▶ 2021 Ingolstadt / Germany - instalation of internal floating roofs for Bayern Oil
- ▶ 2021 Frankfurt / Germany - instalation of internal floating roofs
- ▶ 2021 Gent / Belgium - maintenance in KKT (tank terminal)
- ▶ 2021 Počerady / Czech republic - cleaning of steam turbine - rotor part
- ▶ 2022 JE Temelín / Czech republic - cooperation with ECOL INDUSTRIAL, cleaning of condensuers for nuclear powerplant Temelín, both blocks
- ▶ 2022 Gent / Belgium - GTS repair paintings of old tanks
- ▶ 2022 Zvolen / Slovakia - cooperation with EKOMT, assembly of new boiler
- ▶ 2022 Kolín / Czechrepublic - cooperation with EKOMT, regeneration of boiler in Veolia Kolín
- ▶ 2022 Tušimice / Czech republic - cooperation with ECOL sp.z o.o., cleaning and flushing of oil system in Tušimice Powerplant TG 21 and TG22
- ▶ 2022 Bremen / Germany - cooperation with EKOMT, pipe works and boiler assembly in Bremen
- ▶ 2023 Burghousen / Germany - repair of sealing for ELSONT internal floating roofs

# Our work partners - ECOL

## Cleaning of tanks and pipes inside

- ▶ Why do you need to do this?
- ▶ Temperature and cleanliness are essential for storage of fuels and oils.
- ▶ Cleaning tanks is easy job, but often neglected. There are two methods, dry or wet method.
- ▶ The dry method works with squeegees and rags wiping into a pit, pumping the pit and cleaning it up completely.
- ▶ The wet method uses hot water pressure machine to remove residue of the impurity.
- ▶ Cleaning of pipes, coolers and condensers. This is important for efficiency of devices.
- ▶ We are cooperating with company ECOL sp. Z.o.o. from Poland and ECOL Industrial from the Czech republic.
- ▶ They are specialist in cleaning with high pressure up to 3000bar
- ▶ They have new laboratory specialized in full analysis of fluids
- ▶ They offer personalized fluid management for all clients.
- ▶ More on their website

[www.ecol.com.pl](http://www.ecol.com.pl)

# Our work partners - ECOL

## Cleaning by active foam

- ▶ Why do you need to do this?
- ▶ To clean some devices, which can't be disassembled
- ▶ To clean devices, where can't be used high pressure
- ▶ It is hi effective
- ▶ It is economically attractive

## Delivery of oils and Lubricants

- ▶ Representative for industrial oils from LOTOS Oil

## Lubricating by using ultrasound

- ▶ It is best method to lubricate bearings and rotating devices.
- ▶ Never could happened that you will overfill - prevention of overheating rotating parts
- ▶ Control devices by RIFD points

## Oil Filtration

- ▶ External during operation of device
- ▶ External during repair works

For more informations, do not hesitate to contact US - [Zientek.jiri@ts4u.info](mailto:Zientek.jiri@ts4u.info)



# Why should you choose Tech Solution 4U ?

- ▶ We are reliable.
- ▶ Our employees have many years of experience in the field.
- ▶ We deliver what we promise.
- ▶ We make your dreams come true from the first idea to the final touch.
- ▶ We do not hesitate when facing a challenge.
- ▶ Your project is our responsibility.
- ▶ Our goal is to meet deadlines.
- ▶ We are flexible.

## CONTACT :

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Many thanks to all business partners from the past years.

We believe that we will be happy to cooperate in the years to come.



We believe that you are interested in our company and we can fulfill your ideas



To be continued . . .