



sustainable solutions. for a better life.

REFERENCE

Suplacu de Barcau,
Produced water treatment,
Romania

PASSIONEERING ADVANCED TECHNOLOGICAL SOLUTIONS

Produced Water Treatment





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Suplacu de Barcau - PWTP for Romania's largest oilfield.





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The challenge

- ✓ **Reduction of pollutants** in produced water for **environmentally-friendly discharge.**
- ✓ **Main parameter:**
Elimination of **nondegradable COD**





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The solution

- ✓ **Three stage treatment treatment plant:**
 - Physical-chemical stage
 - Biological stage
 - Activated Carbon Adsorption
- ✓ **Adsorption on Activated Carbon:** the GAC technology (filtration, loading, unloading) used represents the largest fully automatic system implemented in Romania to date.





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With an output of up to 1,000 t/d, Suplacu de Barcau is Romania's largest oil field.

Plant features

- ✓ **Innovative process** using biological steps and activated carbon filter for post-treatment
- ✓ On-site pilot testing
- ✓ Capacity: 8,000 m³/d
- ✓ Turnkey completion
- ✓ The treatment plant is in operation since 2017 and successfully meets all the required standards.



Process design

- Storage and equalization tanks
 - Coagulation/Flocculation
 - Dissolved air flotation (DAF)
 - Cooling towers (55°C down to 35 °C)
 - Biological treatment (activated sludge process)
 - Lamella clarifiers
 - Flocculation and dual media filtration
 - Activated carbon filtration for extended COD removal
 - Sludge dewatering
 - Service water station
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- Laboratory
 - SCADA system for monitoring and operation





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Solutions for Oil & Gas from the House of WABAG.

