

污水处理

SEWAGE TREATMENT

随着油气田开发的不断深入，各类压裂返排液、钻井废液、酸化废液、洗井废液、高盐废水及含聚污水等各类难处理废水的产出量逐渐增大，对它们进行高效处理并使之能够循环使用实现零排放，是国内外油气公司首要解决的问题。通过采用双极旋流油水分离、高频同轴倒极电解析定向除杂、聚合物高效降解、涡流三相强效混合、微纳米气浮浮选分离等新技术组合，针对各类废水进行高效预处理，结合 S-MBR 生物膜处理系统、物理法杀菌、水质在线监测等技术工艺进行深度处理，从而达到污水资源化循环利用，或实现达标排放。

With the deepening of exploration of oil and gas fields, the yield of different kinds of waste water gradually increases, these kinds of waste water includes backflow fracturing fluid, drill fluid, acidizing fluid, well flushing fluid, high salinity fluid and polymer-containing fluid, etc. An efficient way of sewage treatment to achieve cyclic utilization and zero sewage emission is a primary goal for domestic and foreign oil & gas companies. An efficient pretreatment for each kind of sewage is processed respectively, with the combination of new technics including bipolar cyclone oil-water separation, high frequency coaxial inverted electrode electrolysis directional decontamination, high efficient polymer degradation, powerful eddy three-phase mixing, micro-nanometer gas flotation separation; Then the advanced treatment is processed with a combination of technics including S-MBR biofilm treatment system, physical degerming and water quality online monitoring technic, thus achieve the goal of water cyclic utilization and meet the emission standard.

技术优势 Technical Advantages

高效 Efficient	<ol style="list-style-type: none"> 1、减少化学药品用量；Reduce the amount of chemicals; 2、更干的浮渣，显著减少污泥处理费用；Dryer scum, significantly reduces the cost of sludge treatment; 3、作为预处理设施具备优秀的污染去除率；Excellent pollution removal rates as a pretreatment facility; 4、减少整体工艺设计及建造花费。Reduce the overall process design and construction costs.
快捷 Fast	<ol style="list-style-type: none"> 1、出水质量迅速改善；Water quality rapidly improves; 2、所有污泥迅速自行上浮；All the sludge quickly float automatically; 3、运行稳定，节省操作时间。Stable operation, save time.
小巧 Small Size	<ol style="list-style-type: none"> 1、节省 80% 以上面积；Save more than 80% area; 2、减少安装费用；Reduce installation costs; 3、可组合为撬装设备，方便随时移动；Can be assembled as skid mounted equipment, convenient to move at any time; 4、很容易提升处理能力。Easy to upgrade treatment capacity.

应用范围 Application Range

- 1、油田各类作业废水现场处理（压裂返排液、酸化、洗井、泥浆液等）；
- 2、储油罐清洗产生废水处理；
- 3、场站生活污水处理；
- 4、油田各类作业废水集中处理；
- 5、含聚含油污水现有处理工艺无法满足回注要求的。

1. Various types of waste water treatment in oilfield working site (backflow fracturing, acidification, well flushing, drilling mud, etc.);
2. Sewage generated by oil storage tank cleaning;
3. Worksite sanitary sewage treatment;
4. Centralized treatment of various types of operating wastewater;
5. Polymer-containing wastewater which fails to meet the re-injection standard using existing treatment process.