



# PRODUCED WATER SOCIETY

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## **NO PAPER RECEIVED** **FOR** **ABSTRACT # 30**

### **Demonstration of OPUS® II Technology on Oil & Gas Field Produced Water**

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This presentation will discuss in detail the successful demonstration of OPUS® - II technology, a next generation process, on Oil and Gas Field Produced Water. The goal of the demonstration study is treatment of produced water to surface discharge standards, making it suitable for irrigation and reuse purposes. OPUS® II technology consists of multiple treatment processes including ceramic membrane filtration, ion exchange softening, and reverse osmosis (RO) technologies. The pretreatment processes ahead of the RO are designed to reduce free oil, hardness, metals and suspended solids in the feed water. The RO process itself is designed to operate at an elevated pH, which effectively controls biological, organic and particulate fouling, eliminates scaling due to silica, and increases the rejection of organics and boron.

### **Notes**