Understanding Electric Actuation and its Impact on Subsea Projects

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Electric Actuation Technology

Electricity and Water
DO NOT mix
Electric Actuation Technology

“Electric Technology is definitely the future of subsea actuation.”

- President of E&P from a major operator company

- Operating subsea since 2008
- More than 1 million operating hours
Electric Actuators

Linear

Rotary

Choke
Key Benefits

- Electric Actuation Technology
- CAPEX SAVINGS
- OPEX SAVINGS
- OTHER
- Umbilical Installation
- Reduced Interventions
- Maintenance of Equipment
- Higher Availability
- Platform/FPSO Savings
- No Chemicals Discharge
- No Pressure-related HSE Issues
- Environmentally Friendly
- Ultra deep water
- Long step-outs
- No Chemicals Discharge
- Site Integration Testing
- Commissioning
- Running Tools & Test Equipment
- Subsea Distribution Equipment
- Topside Controls Equipment
OPEX savings of 7MM over the life of the field
OPEX savings of 16MM over the life of the field

Electric Actuation Technology

% CAPEX Cost Reduction

Case 2
- 6 Production Trees
- 2 Water Injection Trees
- 1 Production Manifold

% CAPEX
% CAPEX Reduction (OneSubsea)
% CAPEX Reduction (OneSubsea + umbilicals)
Electric Actuation Technology
CAPEX and OPEX savings

Increased functionality

Incremental or full system implementation