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Integrated Artificial Lift Excellence: Technologies, Operations, and the Digital Future

12 – 13 May 2026 | KUALA LUMPUR, MALAYSIA



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Integrated Artificial Lift Excellence: Technologies, Operations, and the Digital Future



High-Speed ESP for Overcoming Installation and Operational Barriers

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Any of these challenges impacting your operations?

- Operational uncertainties
- Highly deviated wells with complex trajectory
- Production deferment
- HSE exposure during ESP assembly
- Expensive rig time
- Workover cost



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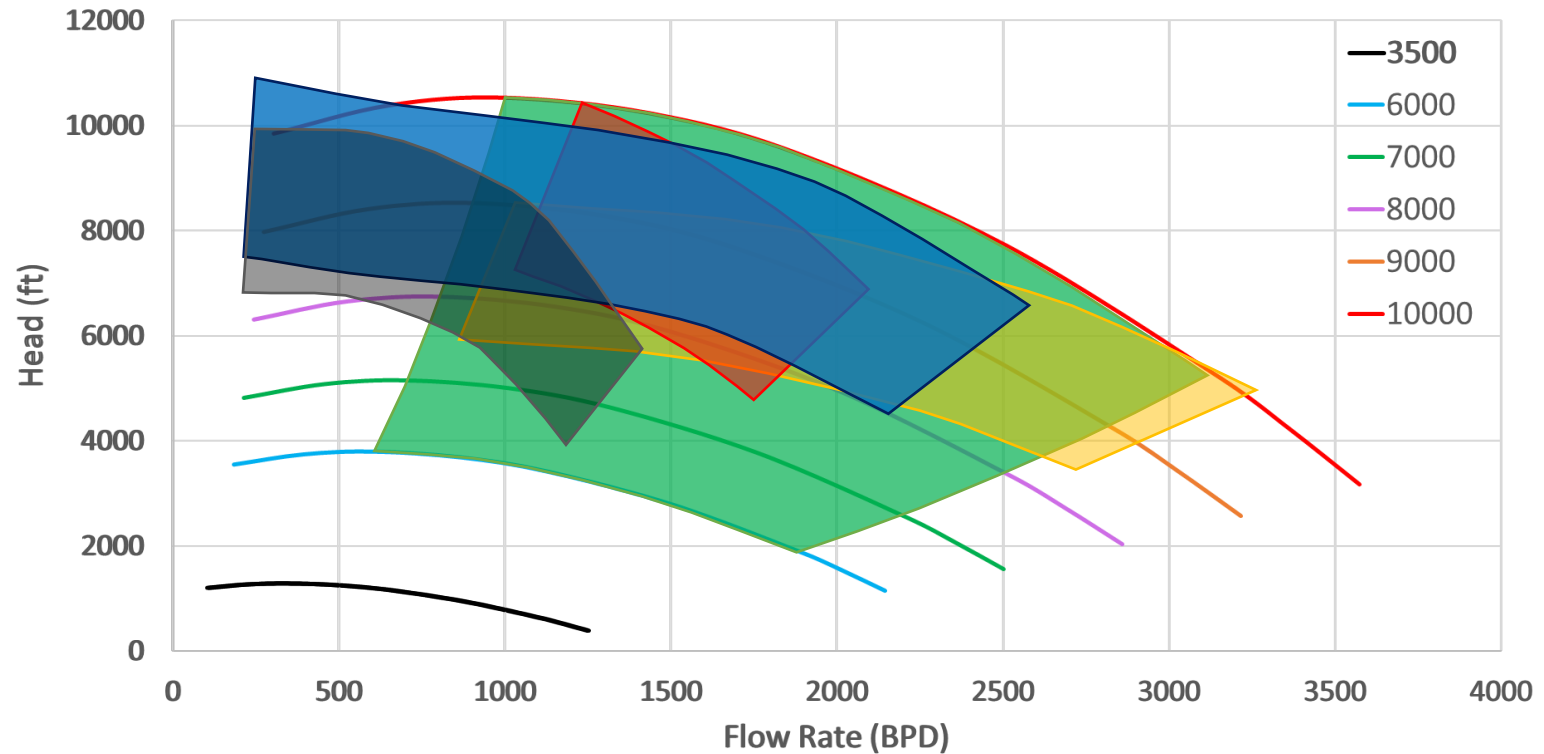


The High-Speed Approach

Traditional Pumps ~ 3500 RPM

Affinity Law ,

$$Head_{RPM2} = Head_{RPM1} \left(\frac{RPM2}{RPM1} \right)^2$$

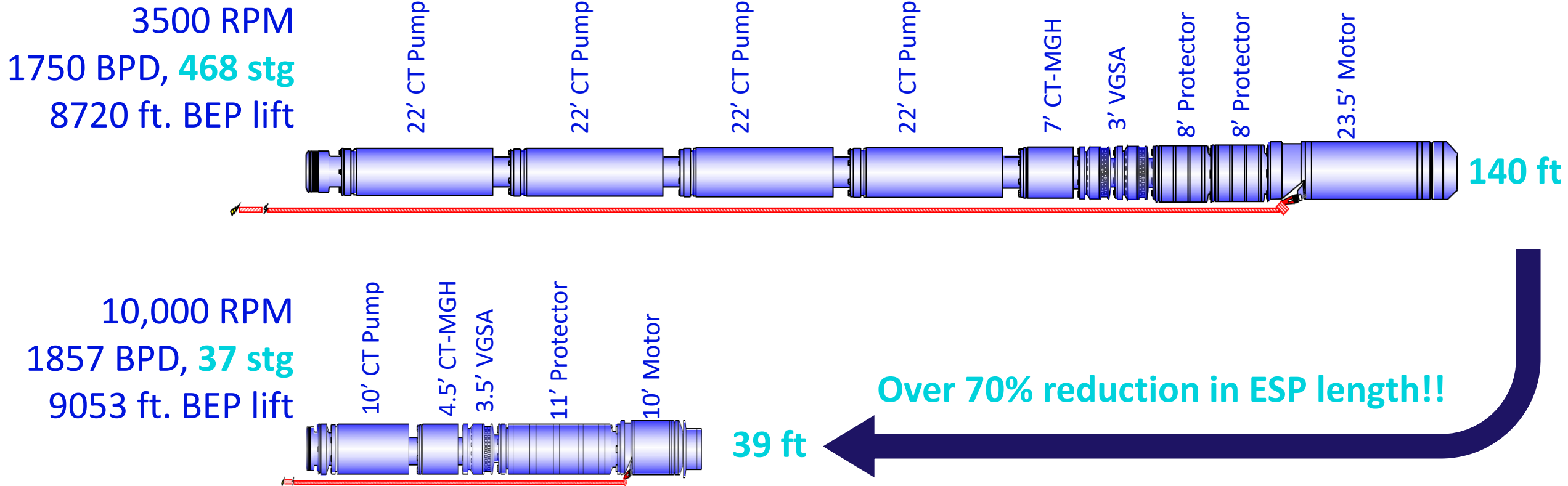




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Traditional vs High Speed – ESP string



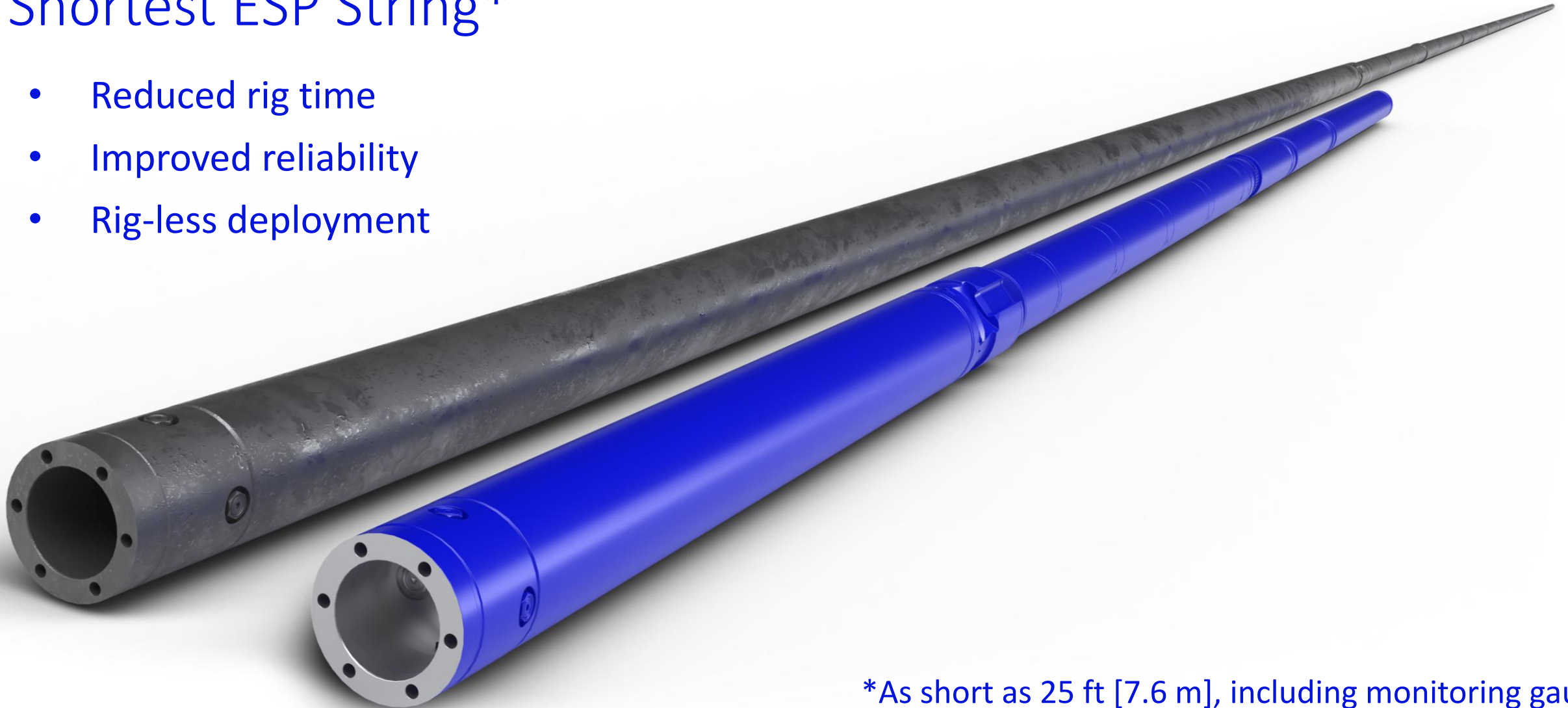


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Shortest ESP String*

- Reduced rig time
- Improved reliability
- Rig-less deployment



*As short as 25 ft [7.6 m], including monitoring gauge



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Navigate complex doglegs

- Pass severe doglegs
- Convenient ESP set-in zone
- Set closer to perforations



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Widest Operating Flow

- Production Flexibility
- Avoid ESP changeovers
- Reduced inventory





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Driving Down Emissions

- High system efficiency
- Lowest embedded carbon
- Reduced logistics & storage



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Technology highlights

- Equipment OD – 4” (Pump) / 4.56”(Motor)
- Operating speed – 5000 to 10000 RPM
- Flow rates – 500 to 3150 BPD
- Max BHT – 350F
- Motor technology – 2-pole induction motor (167Hz)
- Stage metallurgy – Proprietary alloys (up to 4x harder than Ni-Resist)
- Bearings – High-speed Tungsten Carbide
- Housing and shaft – Standard and premium metallurgies



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Thank You

