

Application of JIP33 on Low Carbon Projects

Application for value

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Our strategy

Resilient Low carbon Convenience hydrocarbons and mobility energy • Oil and gas Retail Refining Castrol, aviation, B2B/midstream Transition growth engines. Bioenergy Convenience Hydrogen • Renewables and power EV Charging Sustainability Integration

Standardized specifications and alignment to JIP33 bp's approach

Oil and Gas Refining Low Carbon

JIP33 Implementation

JIP33 Adoption & Development

Aligned with bps hardware procurement strategy of standardize equipment specifications across projects



Full integration with suppliers and global agreements

EPCs - consistent application, same standards from different clients



- \$400+ million to date
- Savings of 10-15%
- Reduced deviations
- \$125+ million next two years
- Expand use to increase value opportunities

JIP33 applicability

CCUS

Similarities with conventional oil & gas facility equipment resulting in broad applicability of JIP33 specs.



Hydrogen

Green and blue hydrogen projects evaluation of JIP33 specs show opportunity for broad applicability of JIP33 specs. Expansion of material selection and testing needed for some specifications.



Biofuels

Sustainable fuels from hydrogenation of esters and fatty acids. Not crop based biofuels. Similarities with conventional oil & gas facility equipment in half of the process resulting in broad applicability.



Yes With update No N/A	Oil &Gas	s(n)ɔɔ	Hydrogen	SAF
Corrosion				
Electrical				
I&PS				
Mechanical				
Rotating systems				
Valves				

Future opportunities

Expansion of JIP33 speciation development roadmap through a low carbon lens

Maintenance of existing specifications through that same lens

Opportunity to realise savings for the lower margin new energy business



IOGP-JIP33 Extra-high Voltage Gas-insulated Switchgear Supplier Questionnaire

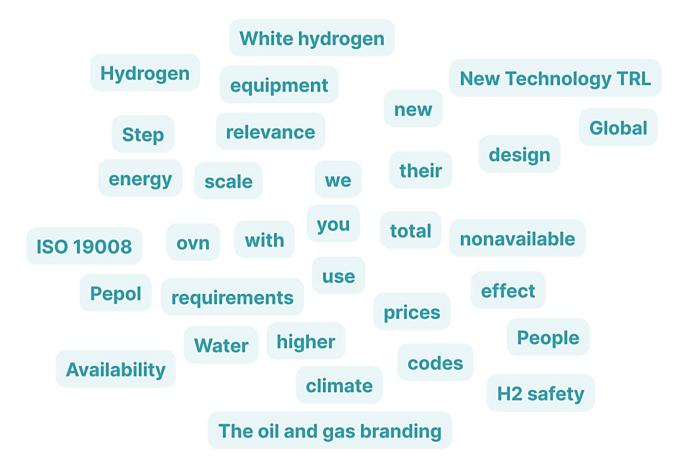


IOGP-JIP33 Battery Energy Storage Systems (BESS) Supplier Questionnaire

Slido poll results

7

Mhat opportunities, concerns, or areas for more information are on your mind?



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Questions?