

**Freitag, 21. Februar 2025, 13.10 Uhr**  
Ortenauhalle Kongress 1  
Tiefe Geothermie

**Friday, 21 February 2025, 1.10 pm**  
Ortenauhalle Congress 1  
Deep geothermal energy



## **Surface Tree and Wellhead Solutions for Deep Geothermal Applications**

*Oberflächenbaum- und Bohrlochkopf-Lösungen für tiefe geothermische Anwendungen*

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Surface trees and wellheads play a crucial role in the geothermal energy sector by providing essential infrastructure for safe and efficient well operation. SLB has developed advanced surface tree and wellhead solutions tailored specifically for the geothermal market, addressing the unique challenges posed by geothermal environments.

This abstract, highlights the key features and benefits of SLB surface trees and wellheads, emphasizing their role in enhancing safety, efficiency, and operational reliability during installation and throughout the lifespan of geothermal wells. These solutions are designed to withstand the high temperatures and corrosive conditions typically encountered in geothermal reservoirs, ensuring prolonged operational integrity and minimal downtime. SLB are able to do this through decades of Oil and Gas experience at similar temperatures and even higher pressures to provide highly reliable equipment whilst complying with the standards of API 6A.

Key advantages include simplified installation processes, facilitated by innovative design features that streamline assembly and reduce rig time. Furthermore, SLB's surface trees and wellheads incorporate advanced materials and engineering to mitigate risks associated with thermal expansion, pressure differentials, and environmental factors prevalent in geothermal settings.

By integrating these technologies, geothermal operators can achieve improved well control, enhanced safety protocols, and optimized operational performance. This abstract underscores SLB's commitment to advancing sustainable energy solutions through reliable and innovative surface tree and wellhead technologies tailored for the geothermal market.