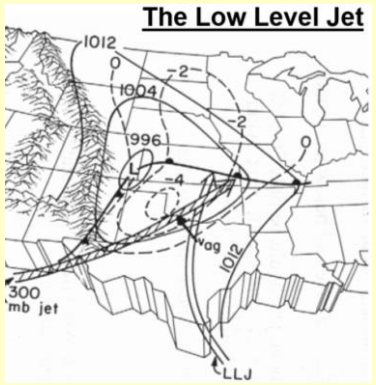
UltraTall™ Wind Tower

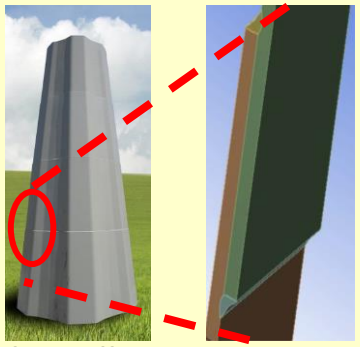
Greater Than 350m Towers for On-Land Locations to Capture High Altitude Wind Resources

UltraTall Tower – too large in diameter to be shipped by truck or rail – must be on-site fabricated

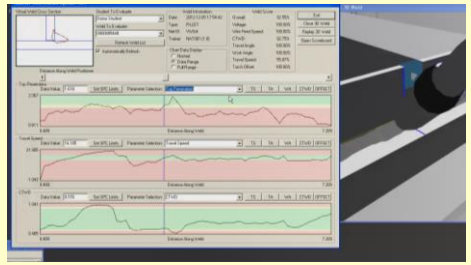


U. S. Low Level Jet (LLJ) – Resource = 6X the total electricity usage for the entire United States – but requires wind turbines at 350+ meter altitude

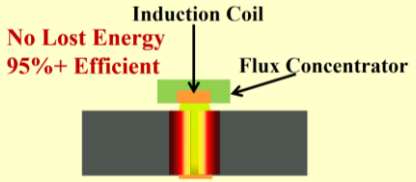
Self Erecting Tower System



UltraTall™ Tower Section-to-Section Welding – Double Lap Weld – 200% Safety Factor



ArcSentry: Real-time All Digital Weld Quality Monitoring – 100% Weld Quality Assessment



Hybrid Induction Arc Welding 7X faster than arc welding

Augmented Reality Controlled Mobile Robot with crawler base – magnetic treads on crawler allow robot to move freely on the tower making welds <u>controlled from the ground</u>

600 feet

UltraTall™ Wind Tower – Portable On-Site Factory

Hybrid Induction thick steel cutting. Portable system for cutting thick steel plates at 7X faster than automated plasma or oxyfuel cutting

Inside the arc welding torch camera system for full video weld quality monitoring in real-time

Research conducted for the Navy by EnergynTech to develop advanced automation for producing ships outdoors in shipyards, has developed 7 new metal fabrication technologies which will be used for on-site fabrication of wind towers.

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