Technology Leadership

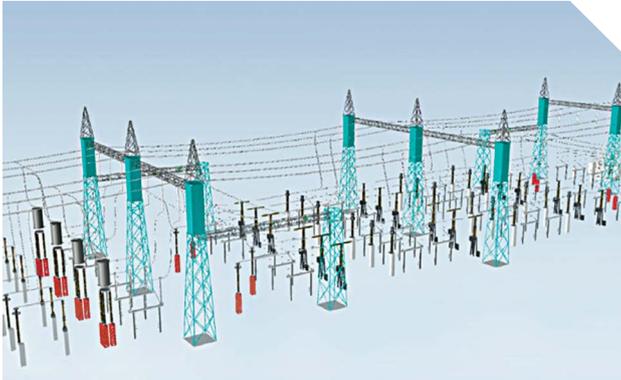**AN EVOLVING WORLD NEEDS REVOLUTIONARY SOLUTIONS**

Sterlite Power has led the way in adopting state-of-the-art global best practices in a 'legacy-driven' power transmission sector. We are actively pursuing innovation opportunities with universities, start-ups, and third parties.
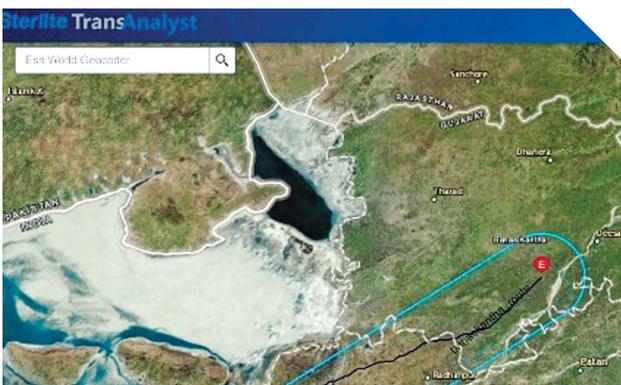

AERIAL TECHNOLOGY FOR ACCELERATED PROJECT EXECUTION

- Planning and automated inspection services by unmanned aerial vehicles (UAVs)

- First use of helicopter stringing in India

- Heli-crane based tower erections in tough terrains

- Investor in global tech start-up SharperShape
  www.sharpershape.com

DIGITALISATION OPERATIONAL EFFICIENCY

- Digital prototypes for higher design quality

- Quality health safety environment (QHSE) effectiveness through e-audits and remote inspections

- SPEX and 5D BIM for project excellence

BIG DATA ALGORITHMS/PREDICTIVE SIMULATIONS

- Route planning, elevation models and resource optimisation using an in-house smart algorithm platform TransAnalyst

- Improving predictability of soil characteristics through data analytics for foundation design (Subsurface Terrain Model or STeM)

- Pan-India power system studies

- Tower test simulations for design validation

ROBOTICS FOR SAFE STRINGING AND TECHNOLOGY INTENSIVE PRODUCTS

- Skyrob™ – safe and efficient optical ground wire stringing through robotics

- Largest manufacturer of high-performance conductors in India

- Low-loss high-ampacity cable, fibre integrated power cable

- Largest OPGW player in India

- SmartValve™ – modular power flow control solutions

SMART PROJECTS FOR MODERN GRID

- India's first vertical GIS Substation with smaller footprint leading to reduced CO_2 emissions

- Re-conductoring of 66 kV transmission line in 'Live-Line Condition' to achieve a 2x increase in power transfer capacity in Electronic City, Bengaluru

TECHNOLOGY FOR GREENER ECOSYSTEM

- Translocating bigger and mature living trees
- Green co-location from Convergence