



The primary objective of the first 40MWe Otjikoto Biomass Power Station to be constructed, owned and operated by NamPower is to address energy security, affordability and environmental sustainability, as well as to stimulate the biomass fuel supply in Namibia. The Project and its economic drivers using encroacher bush as fuel source to assist and alleviate bush encroachment will promote a sustainable harvesting industry that will not only generate the required harvesting volumes to run a biomass power station, but will potentially stimulate other spin-off markets and act as a catalyst for other de-bushing applications.

We were appointed to carry out a comprehensive site investigation to assess the soil and rock profile throughout the site and obtain engineering parameters for the preliminary design (indicative design life of 25 years) for the foundations, structures and heavy rotating plant equipment, tanks, pipe-lines, roads, temporary works and construction activities, etc. associated with a biomass fired power plant and transmission substation. Additionally, the project team was to determine the optimal borehole locations as well as constructing, testing and equipping 3 water boreholes.

Project Team:

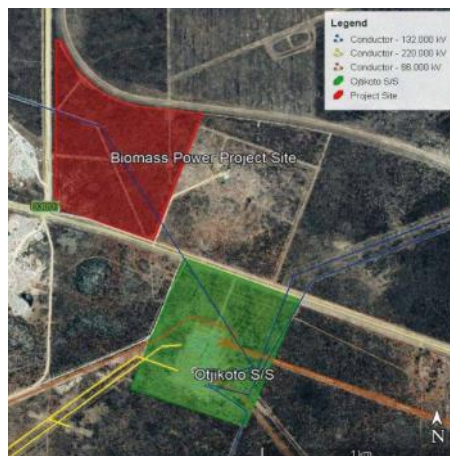
- Project Managers – Burmeister & Partners*
- Geotechnical – WSP Environmental*
- Geohydrological – Pioneer Minerals & Mining Consultants*
- Topographical – Schwarting Land Surveyors*
- Debushing – Joto Investments*

OTJIKOTO BIOMASS POWER STATION

Geotechnical, Geohydrological & Topographical Works

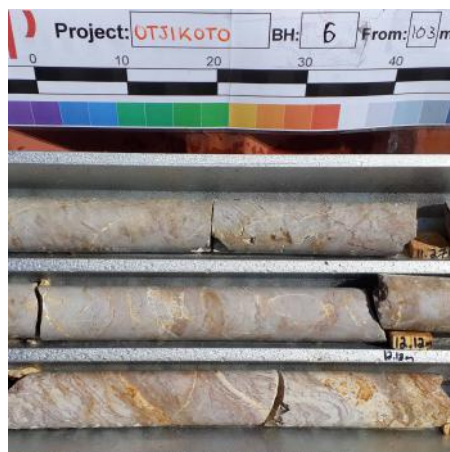
PROJECT STATS

- Value** NAD 3,90 million
USD 0.2 million (ROE 16.24)
- Location** Oshikoto Region, Namibia
- Client** NamPower
- Start** 11/2018
- Finish** 09/2019



SERVICES

- Project management
- Geotechnical Investigation
 - Core drilling
 - Vertical Electrical Sounding (VES) Survey
 - Electrical Resistivity Test
- Geohydrological Investigation
 - Percussion Drilling
 - Borehole Construction, Development and Test Pumping
 - Water Quality Analysis
- Topographical survey
- Bush clearing



Project Management

Civil

Structural