



SOLAR INSTALLATIONS (bp)

- Regulatory and technical industry standards that are applicable to the design include South African Photovoltaic Industry Association (SAPVIA)
- Best practices for solar have been the development of a Basis of Design (BOD) template, reviewing various factors which has assisted to ensure compliance and a high level of reliability for the solar solution at a design level.
- Objective of the BOD document details:
 - Legal requirements;
 - Technical specifications of the system;
 - Mechanical and piping parameters and specifications
 - Process specifications outlining system metrics as well as design limits and constraints;
 - Functional specifications
 - Grid-Tie hybrid system, that can provide electricity to essential circuits during load-shedding
 - Excess energy generation will be exported to non-essential circuits to reduce the electricity usage from Eskom.
 - Electrical, instrument and control specifications outline installation and commissioning of system (includes battery, inverter and solar module specifications)
 - Environmental considerations; and
 - Civil and structural design standards define its parameters, design & constraint limits, and functional specifications;
- Guidelines developed by bp applicable for the design: - Site Technical Practices and Engineering Technical Practices.