

Electric grid angola

i) Evaluation of potential demand: All inhabited locations and known industrial projects, across the country, have been identified, georeferenced and characterized according to the potential electricity consumption - current and future - of its population and activities.

ii) Electrification Planning: Based on the existing and planned network until 2017, all sites that should be connected to the National Grid following its expansion were identified (according to supply quality criteria, investment rational and low operating costs). Localities that did not meet this criteria were considered for off-grid electrification through decentralized generation.

The full electrification of the territory constitutes a technical and financial challenge not compatible with the 2025 horizon. Therefore, the present Vision assumes the goal and commitment to bring the power supply and modern energy services to 60% of the population by 2025, which implies increasing the existing customer base threefold. Due to the high concentration of population in provincial capitals and urban areas it is possible to reach the goal of 60% using different strategies. Three different alternatives were evaluated:

The "Angola Electric Grid Studies" project included static network studies using various network simulation software's, such as ANAREDE and GTMax. Therefore compromised the grid modeling of the three existing Grid Sectors (North, Center, East, South and Cabinda) and grid studies (power flow and dynamic regimen) in order to test different scenarios of grids interconnection as well as simulation different scenarios of Renewable Energy penetration.

Gesto is an international company focused on energy consulting and renewable energy project development. Gesto was founded with the aim of being a leading adviser and a trustworthy partner in creating sustainable energy sectors, thus improving people's lives and making a world of difference.

Public investment will progressively be replaced by long term private financing. Public financing is to be reserved for investments in the public sphere: large dams, the national transport network, investments in the distribution areas allocated to the public utility and rural electrification. The remaining investments should be progressively undertaken by the private sector, enabling single buyer's creditworthiness in a way that allows for the mobilization of the required funding.

The Government of Angola developed "The Angola Strategy for 2025" with the goal to assure an inclusive and sustainable growth of the country, through a balanced distribution of social and economic activities, aiming to promote human development in Angola. These objectives are only possible with the adequate development of the electric sector, in which long-term planning is of the utmost importance. Given this, it necessary to define and align this sector's goals with the ones of the Angolan Strategy for 2025, defining priorities and key-projects.

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