

A photograph of an industrial facility, likely a water treatment plant. In the foreground, there is a large, light-colored industrial machine with a circular vented section and a label 'G7'. To the right, a green metal staircase leads up to a higher level. The background shows more industrial structures, including pipes and tanks, under a high ceiling with skylights. The text 'NATIONAL WATER & ELECTRICITY COMPANY LTD.' is overlaid in large, bold, blue capital letters.

NATIONAL WATER & ELECTRICITY COMPANY LTD.

OUTLINE

- Introduction
- Electricity Operations
- Commercial Improvement
- RE experiance
- Conclusion

INTRODUCTION

NAWEC :

- Incorporated in 1996
- Owned by Government
- Mandated to provide Electricity, Water and Sewerage Services nationwide
- Electricity Production is fuel-based
- Also Purchases some electricity from an Independent Power Producer

Electricity OPERATIONS

- NAWEC Operating Area: Nation wide
- Uses mainly Prepayment metering
- Installed capacity about 102 MW(RE 1.05MW)
- Electricity annual Gross Production: about 241GWh
- Uses mainly HFO and LFO
- Transmission Voltage 33Kv
- R E Portfolio 5% by 2018/

Electricity Operations

- Kotu power station
- Brikama power station
- Provincial (Essau, Kerewan, farafenni, Kaur, Bansang, Basse)
- Provinces uses only LFO hence RE being Promoted
- GAMWIND ie Tanji Batakunku
- MOE Effort ie Street Lights pilot, Kaur 60KW pilot
- Demand exceeds supply thus power rationing
- Routine maintenance

Commercial Improvement

- Reduction of commercial Losses, etc.
- Replacement of Credit with Prepayment meters
- Replacement of faulty meters
- New Billing System
- Recovery of arrears
- Meter Controlling (improvement of meter security, calibration of meters in standardized workshop)
- Meter reading improvement (registering devices and specialized software)

Experience of RE

- Batukunku and tanji (Grid tide)
- Main concern – Administration cost

Major Challenge

- cost of initial investment
- Quarantees
- Nature of the Grid ie small impact may cause system collapse
- Outlook – More thermal plants, RE ventures, Modern Tranmission and dispatch centre

Conclusion

- RE ventures to mitigate for increasing Oil Prices
- Facilitate timely repairs and maintenance of Generating sets and consequently reducing insurance premiums
- Provide specialized skills for Technicians
- Improve procurement systems
- Improve system stability

A photograph of an industrial facility, likely a water treatment plant. In the foreground, there are two large, cylindrical storage tanks. The one on the left is white, and the one on the right is dark, possibly black or dark brown. Both tanks have metal walkways and ladders. In the background, there is a large, light-colored industrial building with a flat roof. A tall, thin pole stands to the left of the white tank. The sky is overcast and grey. The text "THANK YOU" is overlaid in red, bold, capital letters in the center of the image.

THANK YOU