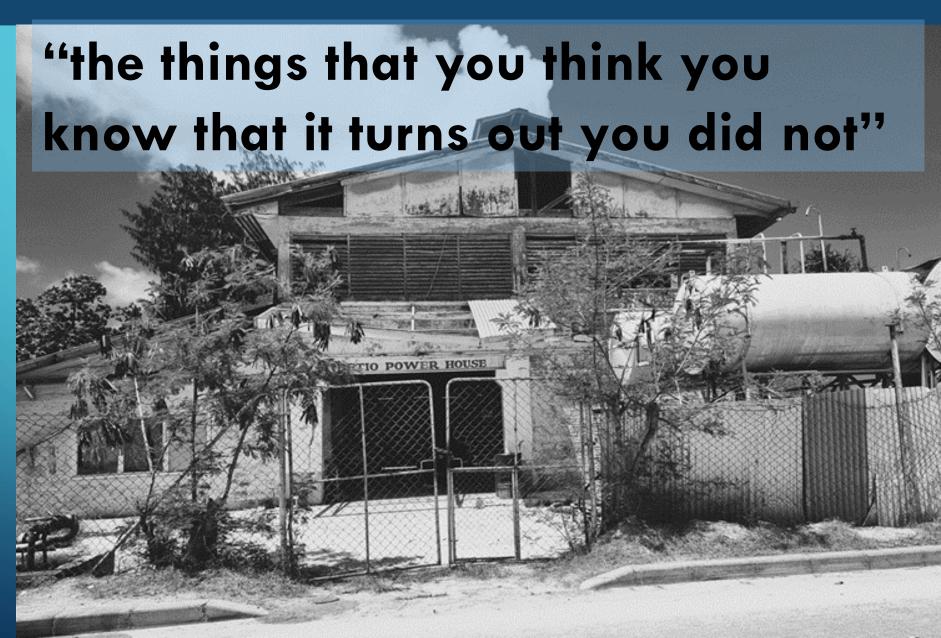


The Unknown Known

there are known knowns; there are things we know we know. We also know there are known unknowns; that is to say we know there are some things we do not know. But there are also unknown unknowns the ones we don't know we don't know."

+ Donald Rumsfeld



KIRIBATI & PUB

PUB provides electricity, water, and sewerage for South Tarawa PUB is the Monopoly Water. Sewerage and Power provider since 1977. PUB has approx. 200 staff.

KEY ECONOMIC DEMOGRAPHIC ISSUES

Around 22%

TB/ Leprosy / Diabetes amongst the highest in the world Life expectancy— 56 yrs males; 63 females;

73% of people do not have access to safe drinking water Years of loadshedding

Flat GPD per Capita for the last 30 years (Population Growth

& Poor Utility Services)

KEY STATISTICS

65,000 population approx.

Total pop'n Sth Tarawa

5%

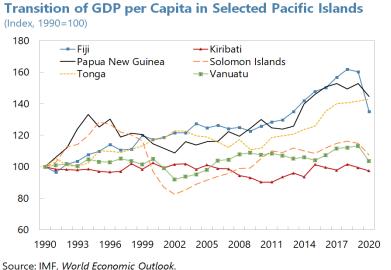
Annual ave pop'n growth - last 30 years on Sth Tarawa

92.69%?

Electrification on South Tarawa for 9444 households. 8754 PUB customer connections

5.59MW?

Peak demand on record at PUB







Back-to-Back Best Customer Services Utility in the Pacific?



EMERGENCIES ONLY CALL US 24/7 ON 2222 FOR QUERIES 686 75126929







PUBLIC UTILITIES BOARD SERVICES

The principle responsibilities of PUB are to deliver the following services to the population on South Tarawa



ELECTRICITY

Supplying and distributing electricity to customers from Betio to Nabeina



WATER SUPPLY

Supplying and distributing water to its customers at Betio to Buota through the water distribution system



SEWERAGE DISPOSAL

Operating and maintaining the sewerage system existing at the major villages

Betio, Bairiki and Bikenibeu only.

Key Issues

- 1 INSOLVENCY & FINANCIAL MANAGEMENT
 - Negative Bank Balance, insufficient cash to operate, opaque financial reporting
- 2 WEAK GOVERNANCE AND RISK MANAGEMENT

No internal risk management, poor compliance with legislation and weaknesses at both management and Board level. Keen workforce, without tools, skills or training to properly deliver utility services.

- 3 EXTENSIVE ASSET FAILURE
 - Unable to meet peak demands, continuous load shedding for years and almost a complete inability to supply water
- 4 ASSET PLANNING
 - Unknown demand projections, projects that don't link or are impaired on completion (STWSP/STREP)

Financial Management

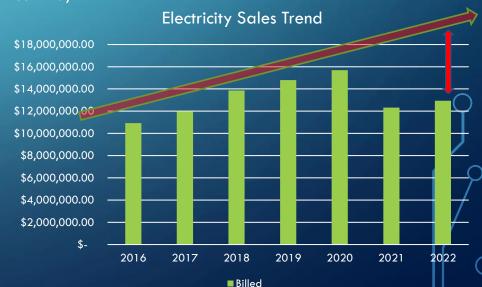


Last audited Financial Statements 2019 (Late 2022 – not financial reports have been provided since)

- Unable to verify of fixed asset balances,
- Uncollectable trade debtor balances and inadequate provision for doubtful debts,
- Other receivable balances (including staff debtors) that are uncollectable,
- Verification of prior period items,
- An inaccurate CashFlow statement,
- Incorrect provision for trade creditors,
- Verification of CSO/subsidy received,
- Verification of payroll for specific months,
- Procedures for purchasing and procurement.

"Never in my career have I seen such a complete failure of corporate controls and such a complete absence of trustworthy financial information as occurred here" John Ray III FTX

No reported a profit since 1977
Overdraft facility for at least 10 years -\$500k Balance
20 disconnected excel spreadsheets containing data back to 1977
Effort put into Measuring Accumulated Profit/Loss since 1977
Sizeable Government debts to PUB \$4 Million (disputed)
Old Debt provision - \$7 Million and new uncollectable debts
Historical debts to National Oil Company (Koil) of around \$7.2 Million
No Tariff Adjustments since 2016



Financial Recovery Action Plan (FRAP)

Bank Accounts tell the truth

- Rebuild cash forecasts from the Bank Account
- Unallocated revenues
- Governance Review Delegations/Approvals
- Accounting Standards (IFRS)
- Depreciation V Cash Reserves V Debt funding
- Fixed Asset Register revaluation

Audited Financial accounts up to date

- Replacement cost
- Annual Budget for Opex/Capex bottom up

Capacity & Capability

New International CFO, staff training programme and expert Financial Advisors (TA David Drake, KPMG)

Tools of trade - New IMS (Finance, Asset Management, Billing, Prepayment meters
Review input costs and renegotiate Diesel price

Unallocated Revenues

Over statement of Government debts - \$2 Million had been paid to PUB

Closed Overdraft Facility

Improved profitability and cash position

New Finance System

Replaces over 20 disconnected spreadsheets

New Diesel Price – support from GoK

Creation of Subsidiary for Water business

Water business has largest revenue risks and

\$11 Million write down

Located mid-point of the 25km 11kV u/g cables between Bikenibeu PS & Betio PS

Tariff Structure and Fiscal Performance

Customer	kWh Usage	AUD \$ Per kWh
Domestic	100	0.100
	300	0.400
	Above	0.550
Commercial		0.550
Industrial		0.700
Government		0.700
SOE		0.700



Financial Highlights (\$ '000)	2019	2020	2021	2022	Six Mth To Jun'23
Revenue	16,501	17,306	16,033	16,503	8,334
Net Profit After Tax	(630)	(420)	(1,099)	(226)	529
CSO payments / subsidies / grants	1,282	1,230	1,550	1,449	700
Total Assets	40,860	39,495	38,981	25,333	32,405
Total Liabilities	2,325	2,483	2,021	503	4,202
Shareholders' Equity	38,535	37,012	36,859	24,829	28,203
ROE %	(2%)	(1%)	(3%)	(1%)	2%
ROA %	(2%)	(1%)	(3%)	(1%)	2%
Debt / Equity	neg	neg	neg	neg	neg
Current Assets / Current liabilities	3.4:1	3.4:1	7.5:1	7.5:1	2.5:1

Tariffs and Revenue

- 80% Customers on lifeline tariff
- Equity a key consideration of tariff structure
- Water/Sewerage runs at considerable loss subsidized by GoK
- New Water Project (\$85 Million USD) Unknown revenue or collections
- Expected to run at considerable operating loss
- Power business has strong fundamentals
- PUB considering a cheaper day rate for power

Issues with Asset Planning

PROPOSED DONOR RE PROJECTS:

1.South Tarawa Renewable Energy Project I (STREP I)

7.5MW PV power plant with 13.5 MW Battery Energy Storage System (BESS) installed on Bonriki Water Pump Station grounds and connected to the 11kV network.

2. South Tarawa Renewable Energy Project II (STREP II)

- 4MW Floating PV installed at Betio
- 33kV subtransmission network with 33/11kV Substations at Betio, Bikenibeu, and Bonriki.

3. South Tarawa Water Supply Project (STWSP)

2MW PV power plant with 2.2MW Battery Energy Storage System installed adjacent to STREP I site. \$approx. \$85 Million USD 6.5MLD Desal

6.95MW DIESEL

Installed diesel generation capacity. **Derated capacity of 5.2MW** due to aged assets. 0.75MW
at Betio PS and 4.45MW at Bikenibeu PS.

1.63MW PV

Installed photovoltaic capacity. **Peak output of 1.24MW**. 500kW at Bonriki Water Pump Station largest installed PV.

64.7KM

Total length covered by 11kV distribution underground (u/g) cables on South Tarawa.

3MW VR

Located mid-point of the 25km 11kV u/g cables between Bikenibeu PS & Betio PS



NETWORK REINFORCEMENT:

1. Betio Power Station

- 3x 1.5MW diesel generators
- Demolition and reconstruction of power station to house new 5x 1.2MW diesel generators.

2. Bikenibeu Power Station

• 1x 1.5MW diesel generator

3. 33kV Sub-transmission Network

- 3x 33/11kV Substations Betio, Bikenibeu, and Bonriki
- 28km of 33kV overhead lines through South Tarawa

GRIDFEATURES

6.95MW DIESEL

Installed diesel generation capacity. **Derated capacity of 4.5 MW** due to aged assets.

0.75MW at Betio PS and 4.45MW at Bikenibeu
PS.

1.63MW PV

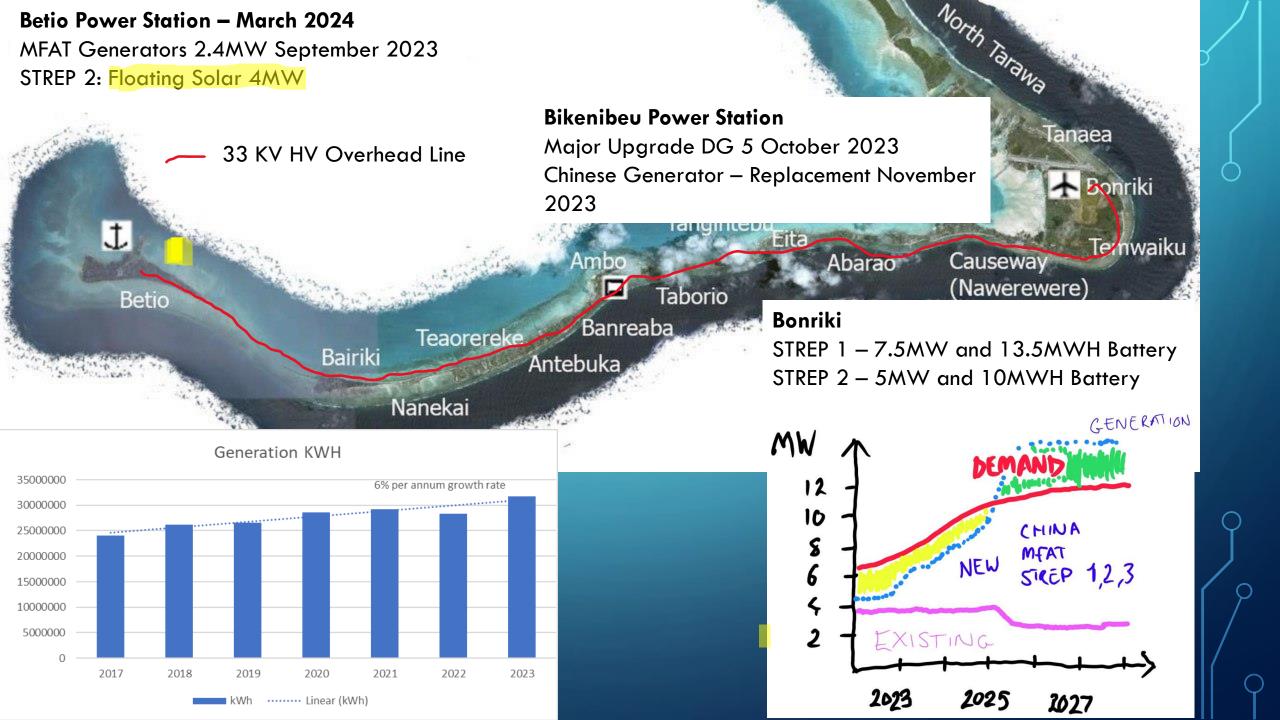
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Issues with Asset Planning



STWSP – Desal Plans complete 2023/Pipelines complete 2028 – 80% leakage High Risk that the power network can't accommodate future loads STREP 1[7.5MWPV 13.5MWH BESS] (Targeted 44% renewables - come down to around 19% – Forecast growth estimated at 2%: actual rate is > 6%/15% for the first half of this year

What is peak demand?

Bring forward projects that were forecast out to 2040

STREP – Voltage limitations in cables impair the asset (3MVA Betio and 1.5MW cable restrictions

33KV upgrade (included in STREP 2 is essential - 45 cents per KW down to around 20 cents)

ONOT KNOWING OUR OWN PROBLEMS AND MULTIPLE DEVELOPMENT PROJECTS
WITHOUT PROPER DUE DILLIGENCE

Governance & Risk Management

Establishment of Risk and Audit Committee

Board Governance Training

Board Adoption of Risk Appetite

New Energy Act 2022

National Safety Standards

Technical Standards

Established Energy Regulator

Tariff adjustment mechanism

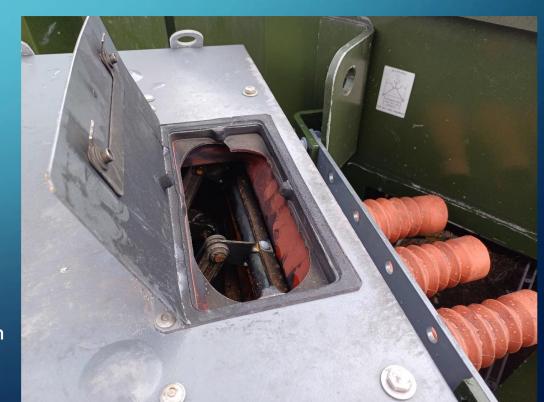
Safety Policy

Diversity Policy

Women Friendly Policy

Example of Failed Schneider 'Ring Master' SF6 RMU – Arc Flash Vent Operated.





Asset Failures

DG No.	Maker	Risk Ranking		
3	Daihatsu Installed Capacity: 1400 Derated Capacity: 1000	High Risk		
4	Daihatsu Installed Capacity: 1400 Derated Capacity: 1250	High Risk		
5	Daihatsu Installed Capacity: 1400 Derated Capacity: 1250	Critical Risk		
6	Cummins Installed Capacity: 823 Derated Capacity: 400	Failed		
7	TidePower Installed Capacity 1500 Derated 1200	Failed		

Overloaded Transformers

Year	Total Loaded	GREEN	AMBER	RED	Total Overload	GREEN	AMBER	RED	Total Overload
2020	66	49	3	14	25.8%	46	6	14	30.3%
2030	70	43	7	20	38.6%	42	8	20	40.0%
2040	74	34	7	33	54.1%	34	7	33	54.1%

^{*}Green Zone < 80%, Amber Zone > 80% & <100%, Red Zone > 100%, Total Overload > 80%

PUB Projects/Planning

WARNING

Keep Out
High
Voltage

- Increased water storage so we can operate at maximum capacity during daylight hrs – using PV
- Connecting our 2 power stations to the 33KV Line
- Capacitor Banks
- 11KV distribution line needs upgrading
- Transformers SF6 Gas
- PowerStation Battery Bank in Betio 4MW Diesel Generation Capacity
- Self funding rooftop and batteries to Government buildings and PUB
 Owning the assets (\$600K AUD equity issue with 90% customers on lifeline
 tariff)
- 14000 pre-payment meters and new meter boxes with RCD's
- Household upgrades in electrical safety
- Trialing hydrogen injection and biofuel copra if our diesel gensets
- .Optical Fibre connection RE & Power stations
- Network protection and breaker switches 11KV





