

# Online Benchmarking Training

Fiscal Year 2019

# INTRODUCTION

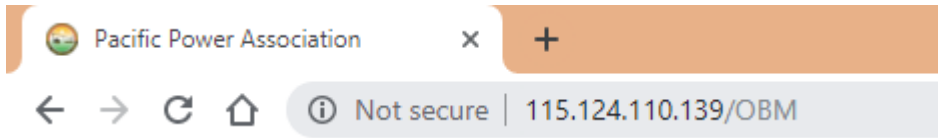
The Online Benchmarking Platform (OBM) will be used for strategic, tactical & operational planning and the development of performance improvement plans. The Online Benchmarking Platform can be foreseen as a robust system, in which data input will be possible, support the planning, implementation, analysis report generation and monitoring of multi-objective activities. It will perform the functions of-

- Data Input Interface related to Activity
- Data Verification
- Monitoring Interface
- Data reporting tool with external format

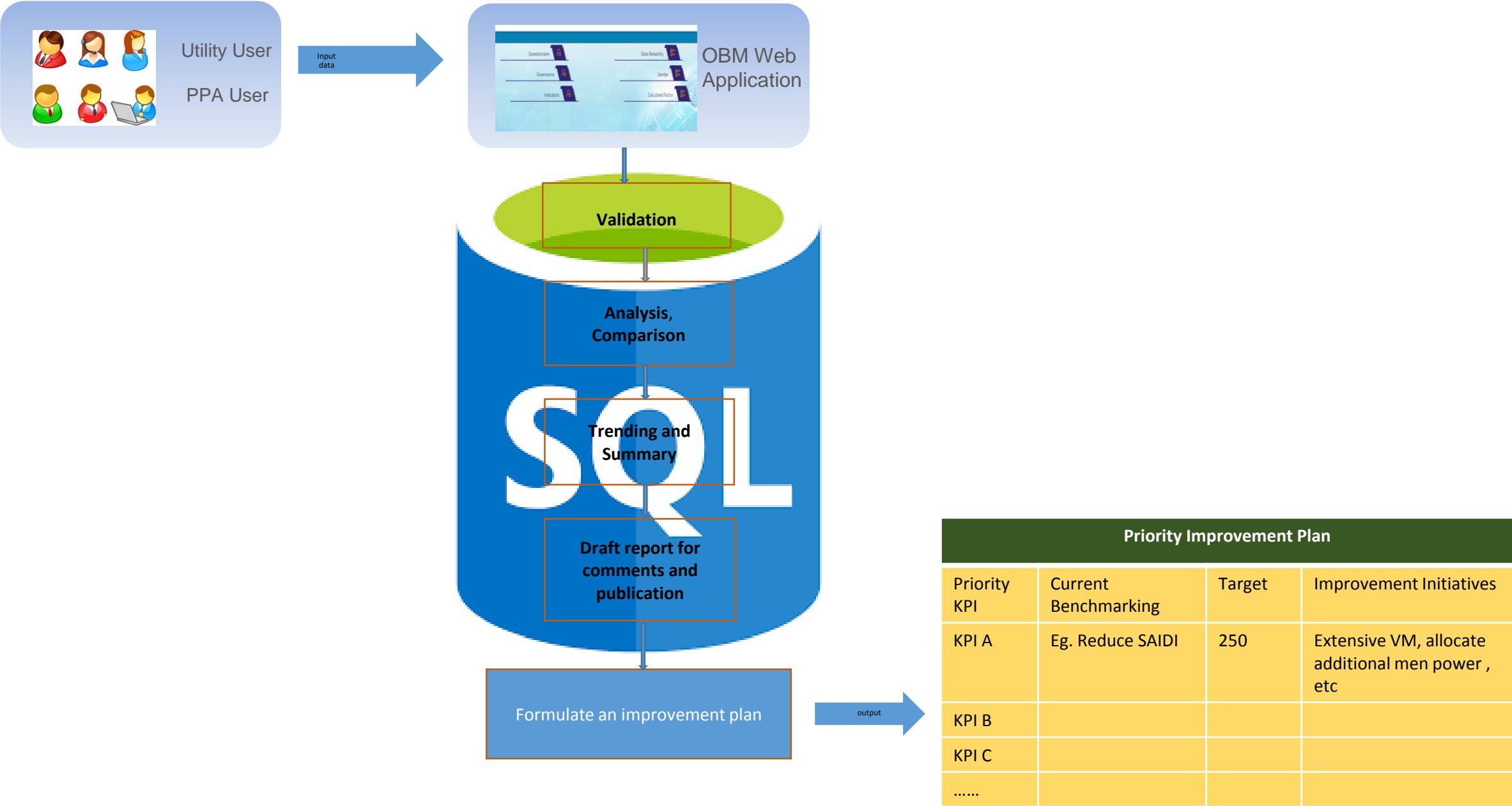
# OBJECTIVE OF OBM PLATFORM

- Development of Online Benchmarking Web application facilitate online (web-based) data collection
- Role based Application (Admin, Benchmarking Officers, PPA officers etc)
- Data validation
- Data Analysis
- Report Generation
- Convert existing benchmarking questionnaire from MS Excel format to an electronic format

# APPLICATION ACCESS




# Benchmarking Flow Chart




# Application Module

Login : For accessing the application user should have the login id and Password



**Online Benchmarking Data Submission Platform**  
Pacific Power Association (PPA)

Welcome to  
**Online Benchmarking Data Submission Platform**



### Online Benchmarking Data Submission Platform

The Pacific Power Association (PPA) is the regional organization representing 25 electric power utilities in 20 Pacific Islands Countries and Territories (PICTs) in energy fora. At its Annual Conference held at the Warwick Hotel on the Coral Coast in Fiji in August 2006, the Board resolved to recommence the Regional Power Utilities Benchmarking which had started under ADB funding in 2000.

In August 2010, the PPA, SPC, and PIAC (now PIC; PRIF Coordination Office) signed a Memorandum of Understanding (MOU) to establish a sustainable benchmarking system for the power utilities of the Pacific Island Countries and Territories (PICTs). Within the Council of Regional Organisations of the Pacific (CROP), the PPA is the lead CROP implementing agency responsible for electric power assistance activities, with twenty five member utilities among the PICTs.

Recent studies in the Pacific region have identified the poor quality of national and regional energy sector data as a constraint to effective analyses of issues, opportunities for improved decision-making and to future improvement. This is true for energy broadly and for the electric power sector. There is limited reliable, consistent, up-to-date information on the technical and economic performance of the region's power utilities and no time-series data allowing comparisons over time. This constrains attempts to improve services, and document the improvements, within the power sector.

This benchmarking initiative is linked to the Framework for Action on Energy Security in the Pacific (FAESP), a policy and strategy for energy sector action at the regional level, which was endorsed by regional leaders in 2010, and which recognizes the development of improved energy data as a high priority at both national and regional levels. Accordingly, data collected in the benchmarking exercises was designed in part to provide selected power sector data for the SPC's initiatives to improve energy data.

The endorsement by regional leaders in 2010 of the Framework for Action on Energy Security in the Pacific, a policy and strategy for energy sector action at the regional level, mandated the PPA to undertake a regional benchmarking exercise for all member Utilities.

Improvements have been made to improve benchmarking process, which in turn should allow better management decisions and help utilities become more commercially sustainable over time. There are three interrelated, overlapping areas in which recommendations have been made and improvements implemented in three interlinking areas of improving (a) Pacific power utility performance; (b) quality of information in future benchmarking and; (c) usefulness of benchmarking to utilities.

The Online Benchmarking Portal transitions the manual process of submitting the utility data using an Excel spreadsheet to a portal such that individual utility results can be reviewed immediately and to improve the vetting and accuracy of data.

### Login

Username

Password

Login

[Register ?](#) [Forgot Password ?](#)

### Contact Information

Pacific Power Association  
Naibati House  
Goodenough Street,  
Suva, Fiji Islands.  
Email: [ppa@ppa.org.fj](mailto:ppa@ppa.org.fj)  
Website : <https://www.ppa.org.fj>  
Tel: (679) 3306-022

### Useful Links

- ▶ [PPA Strategic Plan Final](#)
- ▶ [Benchmarking Summary Report 2015](#)
- ▶ [Benchmarking Summary Report 2016](#)
- ▶ [Benchmarking Summary Report 2017](#)
- ▶ [Lorem Ipsum](#)

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# Application Module



# Application Module



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🔒 Not secure | 115.124.110.139/OBM/Dashboard/SurveyAction

📱 Apps 🖱️ - Corporate App 🖱️ Welcome to Emplo... 🖱️ PMMIS2 🖱️ Google

📁 Other bookmarks

Welcome Edna Naga

Home / Show Analysis

📊 View Statistical Analysis

Analysis Year

--Select Year--

Analysis Action

--Select Action--

Analysis Utility

--Select Utility--

Submit



# Application Module

Questionnaire

Data Reliability

Governance

Gender

Calculated Factors

Indicators

← → ↻ 🔒 Not secure | 115.124.110.139/OBM/Dashboard/SurveyAction

Apps Corporate App Welcome to Emplo... PMMS2 Google Other bookmarks

Welcome Edna Ngugi

Home / View Analysis

▲ View Statistical Analysis

Analysis Year

--Select Year--

Analysis Action

--Select Action--

Analysis Utility

--Select Utility--

Submit

## Introductory Questions

Generation

Transmission

Distribution and Customer Outages

Demand Side Management

Human Resources / Safety

Customers / General

Finance

Generation Expenditure

Transmission/ Distribution Expenditure

Overheads/ Other Expenditure

# Content

- Functional Details & How to Use the platform
  - ❖ Login Page
  - ❖ Home page
  - ❖ Change Password, Edit profile and log out
  - ❖ Benchmarking Survey
  - ❖ Questionnaire
  - ❖ Data Reliability
  - ❖ Governance
  - ❖ Gender
  - ❖ Calculated factor
  - ❖ Indicators

# FUNCTIONAL DETAILS & HOW TO USE

- User will first log in to the application and has to enter the URL<> in the web browser (Only on chrome and Mozilla).Then user will see the login page having following fields.

- Username
- Password
- Login button
- Register and forgot password
- Contact Information and Useful Links



The screenshot shows a web browser window with the URL `apps.rmsi.com/OBM` in the address bar. The page title is "Online Benchmarking Data Submission Platform" and the subtitle is "Pacific Power Association (PPA)". The page features a large banner with the text "Welcome to Online Benchmarking Data Submission Platform" and a background image of power lines. Below the banner, there is a "Login" section with fields for "Username" and "Password", a "Login" button, and links for "Register ?" and "Forgot Password ?". To the right of the login section is a "Contact Information" section with details about the Pacific Power Association, including its address, email, website, and telephone number. Below the contact information is a "Useful Links" section with links to the PPA Strategic Plan Final, Benchmarking Summary Report 2015, Benchmarking Summary Report 2016, and Benchmarking Summary Report 2017. At the bottom of the page, there is a copyright notice: "© 2018 Pacific Power Association. All Rights Reserved." and a logo for "Powered by RMSI".


Figure 1: URL

# Login Page

- Then application will initiate the OBM application with a login screen to every user of the application. User will be required to enter their credentials (user id and password) in order to access the application based on the assigned role(s).
- OBM User will be authenticated through a login and password, which will be entered in the database through new user request. New user request will be verified through department hierarchy by admin. All the stages in the flow will have specific login controls. Each OBM user will have a unique login ID and password. This will also provide controlled, authorized access rights to a specific stage and give functionality to provide access rights based on designation to different department/Organization users.



**Manage Users:** For registering new user to access, OBM Application will provide the appropriate authentication by OBM administrator.



**Online Benchmarking Data Submission Platform**  
Pacific Power Association (PPA)

**Welcome to Online Benchmarking Data Submission Platform**

**Login**  
Username:   
Password:   
**Login**  
[Register ?](#) [Forget Password ?](#)

**Online Benchmarking Data Submission Platform**  
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▶ [Benchmarking Summary Report 2017](#)

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**Figure 2: Login Page**

## Home Page

- Upon successful login, a Home page will appear. Home page is the initial page of an OBM website, the 'point of entry' to all the information stored within. It's similar to the front page of a newspaper.
- Events, news and picture's and other menu bars are visible in this home page. User can navigate to other pages through menu bar or webpage link.

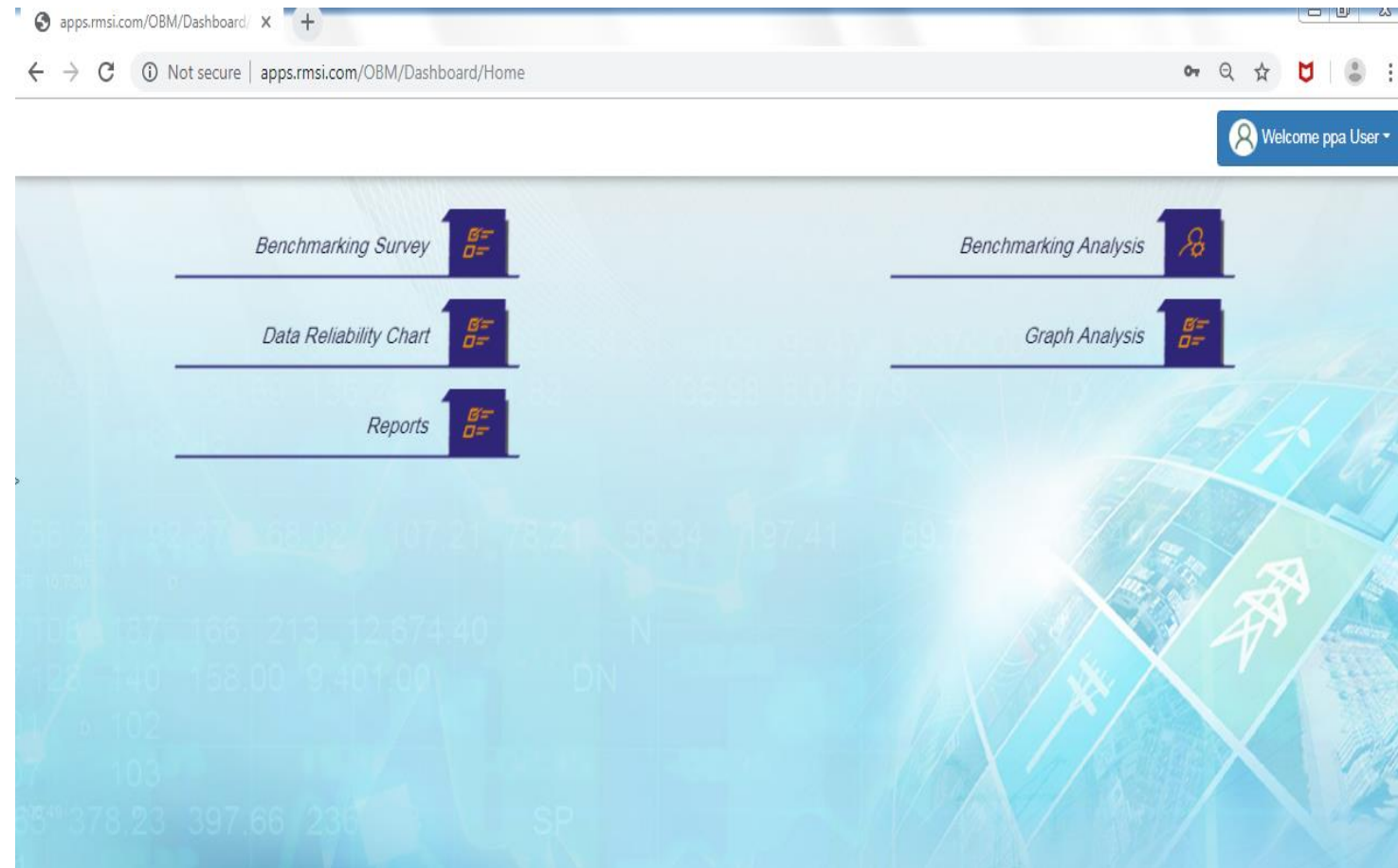
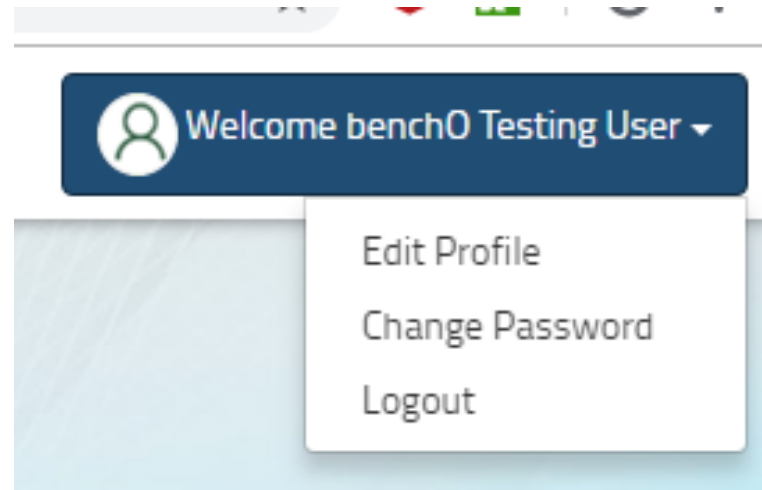


Figure 3: Home Page

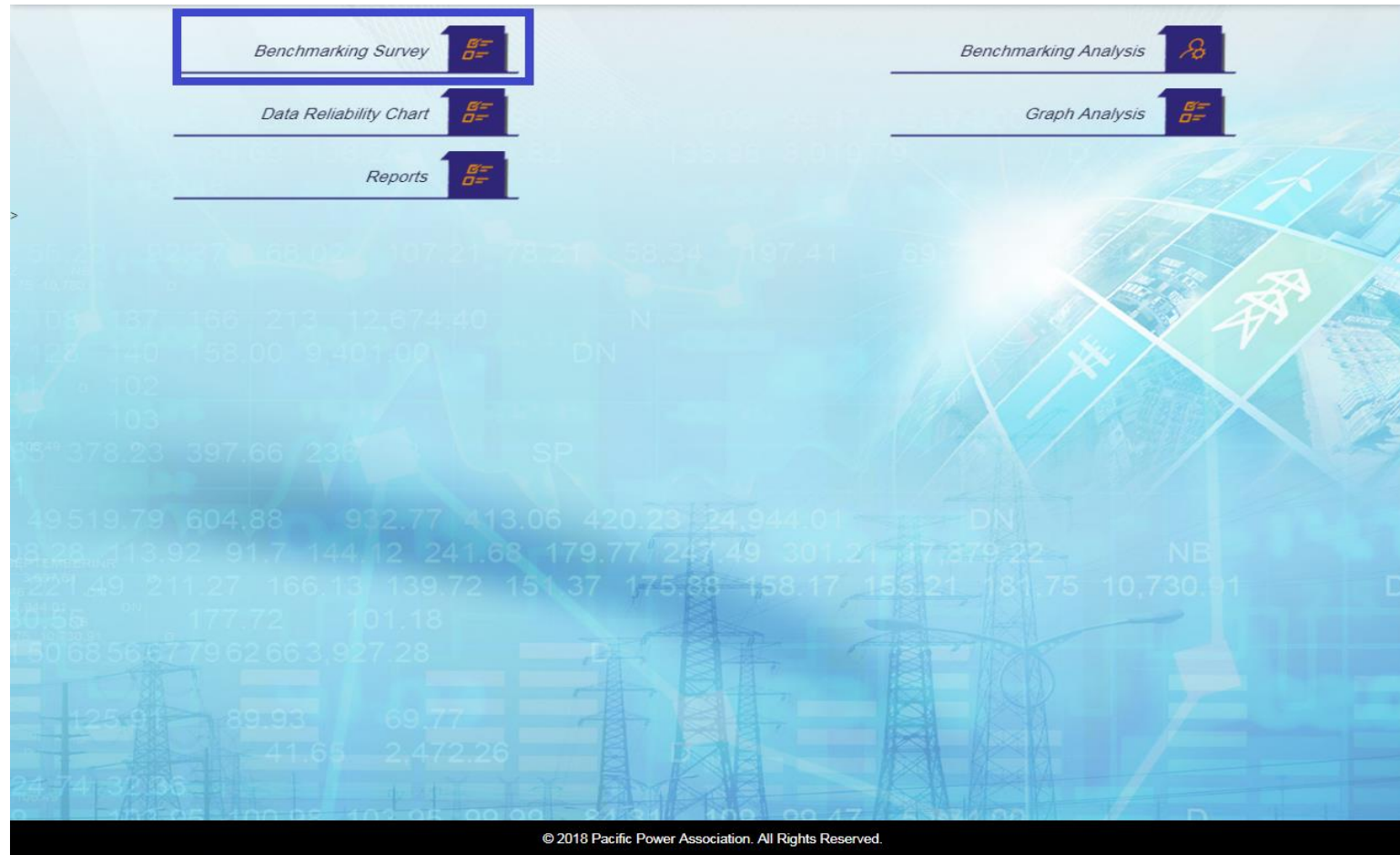
## Change Password, Edit Profile and Log Out

- User can change their profile and change their password also. After all the work is done user can logout through these functionalities:



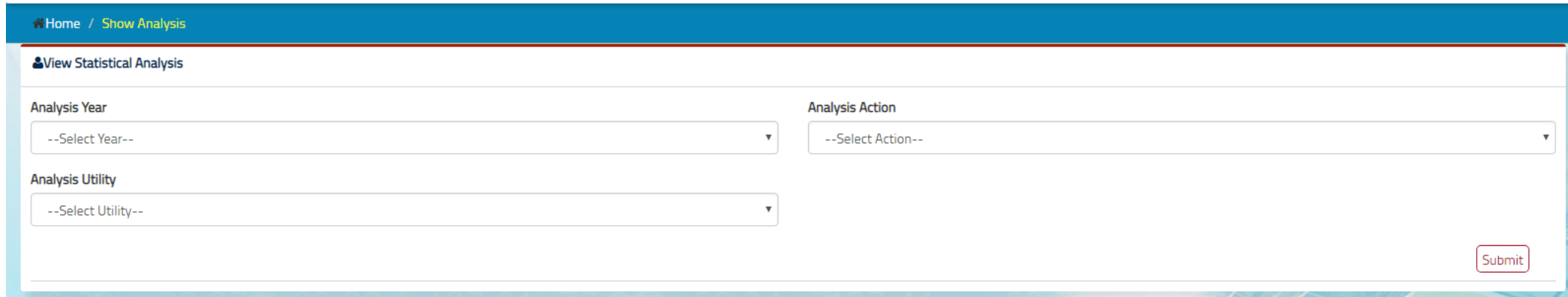
# Benchmarking Survey

1. Click on 'Benchmarking Survey'.





- Application will open a page having Analysis Year, Analysis Action, and Analysis Utility with 'Submit' button.



The screenshot shows a web application interface with a blue header bar containing the text "Home / Show Analysis". Below the header, there is a section titled "View Statistical Analysis" with a user icon. The main content area contains three dropdown menus: "Analysis Year" with the placeholder "--Select Year--", "Analysis Action" with the placeholder "--Select Action--", and "Analysis Utility" with the placeholder "--Select Utility--". A red "Submit" button is located at the bottom right of the form.

- Select Year from 'Analysis Year'.
- Select Action i.e. Fill Survey.
- Select 'Utility' among all utilities.
- Click on 'Submit' button.

# Modules

Modules available to input benchmarking data and view KPI scores.



# Questionnaire

1. Click on 'Questionnaire'.
2. Application will open questionnaire forms named as:
  - Introductory Questions
  - Generation
  - Distribution and Customer Outages
  - Human Resources/ Safety

# Questionnaire

- Customers/ General
- Finance
- Generation Expenditure
- Transmission/ Distribution Expenditure
- Overheads/ Other Expenditure



# Introductory Questions:-

1. Click on 'Introductory Questions'.
2. Application will open a form to be filled up.

The screenshot displays a web application interface for a questionnaire. The top navigation bar includes tabs: **Questionnaire**, Data Reliability, Governance, Gender, Calculated Factors, and Indicators. The left sidebar lists various categories, with **Introductory Questions** selected and highlighted in blue. The main content area is titled 'Information on person providing the information' and contains the following fields:

- \*Completed by Benchmarking Liaison Officer (name)**: Danish
- \*Position / Title**: SE
- \*Endorsed by CEO (name)**: Rahul Vatsalya
- \*Country or territory**: ASPA
- \*Name of utility**: American Samoa
- \*Postal address**: A-8, NOIDA Sec-16
- \*E-mail address**: mohammad.danish@rmsi.com
- \*Back up e-mail address**: danishneyaz89@gmail.com
- \*Telephone number**: 8090270871
- Skype address (if any)**: anujdrocks

Below these fields is a section titled 'Benchmarking Period' with the following fields:

- \*Start Date for Benchmarking Data Collection Period**: 12/05/2018
- \*End Date for Benchmarking Data Collection Period (Benchmarking Period)**: 03/13/2019
- \*Date questionnaire completed**: 12/12/2018
- \*Currency Used by Utility to Report Costs**: USD

At the bottom right of the form, there are two buttons: **Next** and **Save as Draft**.

3. Fill the form.
4. Click on 'Save as Draft' button if some information will be filled later.
5. Click on 'Next' button.
6. Application will save the form and move to the next questionnaire form i.e. 'Generation'.

# Generation:-

1. Click on 'Generation'.
2. Application will open a form with generation information to be filled.
3. Fill the form.

**Wizard** Benchmarking Year: 2018 / Utility Name: ASPA

**Questionnaire** Data Reliability Governance Gender Calculated Factors Indicators

**Introductory Questions**

**Generation**

Transmission

Distribution and Customer Outages

Demand Side Management

Human Resources / Safety

Customers / General

Finance

Generation Expenditure

Transmission/ Distribution Expenditure

Overheads/ Other Expenditure

	Main grid 1	Grid 2	Grid 3	Others	Comments
1 *Name of the grid ⓘ	Main Grid 1	Grid 2	Grid 3	1	Generation Comment 1
2 *Total Utility Generation(MWh) ⓘ	1	2	3	2	Generation Comment 2
3 *Total IPP Generation Purchased(MWh) ⓘ	4	5	6	3	Generation Comment 3
4 *Maximum Demand / Peak Generation(MW) ⓘ	7	8	9	4	Generation Comment 4
5 *Minimum Demand Generation(MW) ⓘ	10	11	12	5	Generation Comment 5
6 *Guaranteed/Contracted IPP Generation Capacity(MW) ⓘ	13	14	15	6	Generation Comment 6
7 *Generator 1 Nameplate Capacity Rating(MW) ⓘ	16	17	18	7	Generation Comment 7
7 *Generator 2 Nameplate Capacity Rating(MW) ⓘ	19	20	21	8	Generation Comment 8
7 *Generator 3 Nameplate Capacity Rating(MW) ⓘ	22	23	24	9	Generation Comment 9
7 *Generator 4 Nameplate Capacity Rating(MW) ⓘ	25	26	27	10	Generation Comment 10
7 *Generator 5 Nameplate Capacity Rating(MW) ⓘ	28	29	30	11	Generation Comment 11

+ Add New Row

## Generation Form Continues

9.1e	LNG (kg / tonne) ⓘ	<input type="text" value="151"/>	<input type="text" value="152"/>	<input type="text" value="153"/>	<input type="text" value="52"/> kg ▼	Generation Comment
10	Total Lubricants Used in Generation (L/ kL / ML) ⓘ	<input type="text" value="154"/>	<input type="text" value="155"/>	<input type="text" value="156"/>	<input type="text" value="53"/> L ▼	Generation Comment
11	Utility Capacity Hours Out of Service Due to Generation Forced Outage Events (MWh) ⓘ	<input type="text" value="157"/>	<input type="text" value="158"/>	<input type="text" value="159"/>	<input type="text" value="54"/>	Generation Comment
12	Utility Capacity Hours Out of Service Due to Generation Planned Outage Events (MWh) ⓘ	<input type="text" value="160"/>	<input type="text" value="161"/>	<input type="text" value="162"/>	<input type="text" value="55"/>	Generation Comment
13	Utility Capacity Hours Out of Service Due to Generation De-rated Events (MWh) ⓘ	<input type="text" value="163"/>	<input type="text" value="164"/>	<input type="text" value="165"/>	<input type="text" value="56"/>	Generation Comment
14	IPP Capacity Hours Out of Service Due to Generation Forced Outage Events (MWh) ⓘ	<input type="text" value="166"/>	<input type="text" value="167"/>	<input type="text" value="168"/>	<input type="text" value="57"/>	Generation Comment
15	IPP Capacity Hours Out of Service Due to Generation Planned Outage Events (MWh) ⓘ	<input type="text" value="169"/>	<input type="text" value="170"/>	<input type="text" value="171"/>	<input type="text" value="58"/>	Generation Comment
16	IPP Capacity Hours Out of Service Due to Generation De-rated Events (MWh) ⓘ	<input type="text" value="172"/>	<input type="text" value="173"/>	<input type="text" value="174"/>	<input type="text" value="59"/>	Generation Comment
*Note: Generation SAIDI data is recorded under the Distribution Section below.						
17	Power Station Usage / Station Auxiliaries (MWh) ⓘ	<input type="text" value="175"/>	<input type="text" value="176"/>	<input type="text" value="177"/>	<input type="text" value="60"/>	Generation Comment
18	*Enabling Framework for Private Sector Participation IPP/ PPA Arrangement? (Y/N) ⓘ	<input type="text" value="Yes"/>				Generation Comment

[Next](#)[Save as Draft](#)



**Transmission:-**

Applies to countries with 33kV and above transmission line. If your answer is 'No' to question 19 then you are not required to fill this section of Questionnaire

1. Click on 'Transmission'.
2. Application will open a form with transmission information to be filled up.
3. Fill the form.

# Transmission continue

The screenshot shows a 'Wizard' interface for a questionnaire. The top navigation bar includes 'Questionnaire' (active), 'Data Reliability', 'Governance', 'Gender', 'Calculated Factors', and 'Indicators'. The right side of the header shows 'Benchmarking Year: 2017 / Utility Name: ASPA'. On the left, a sidebar lists categories: 'Introductory Questions', 'Generation' (with 'Transmission' selected), 'Distribution and Customer Outages', 'Demand Side Management', 'Human Resources / Safety', 'Customers / General', 'Finance', 'Generation Expenditure', 'Transmission/ Distribution Expenditure', and 'Overheads/ Other Expenditure'. The main area is titled 'Transmission' and contains a table of questions. Question 19 is a dropdown menu with 'No' selected. Questions 20, 20.1, 20.2, 20.3, 21, 21.1, 22, and 23 are text input fields. A 'Comments' column is present for each question. At the bottom right, there are 'Next' and 'Save as Draft' buttons.

	Transmission	Comments
19	* Does your system have a transmission network? (Y/N) No	
20	Number of Unplanned Transmission Outage Events (events)	
20.1	Number of Planned Transmission Outage Events (events)	
20.2	Total Number of Customer Interruptions for Unplanned TRANSMISSION Outages (customers)	
20.3	Total Number of Customer Interruptions for Planned TRANSMISSION Outages	
21	Total Unplanned Transmission Related Interruption Contribution (SAIDI - transmission) (cust-mins)	
21.1	Total Planned Transmission Related Interruption Contribution (SAIDI - transmission) (cust-mins)	
22	Length of Transmission Line (km / miles) km	
23	Electricity delivered to distribution system (MWh)	

4. Click on 'Save as Draft' button if form is incomplete.
5. Click on 'Next' button.
6. Application will save the form and move to the next questionnaire form i.e. 'Distribution and Customer Outages'.

# Distribution and Customer Outage

1. Click on 'Distribution and Customer Outage'.
2. Application will open a form with Distribution and Customer Outage information to be filled up.
3. Fill the form.

Wizard

Benchmarking Year: 2017 / Utility Name: ASPA

Questionnaire Data Reliability Governance Gender Calculated Factors Indicators

Introductory Questions

Generation

Transmission

**Distribution and Customer Outages**

Demand Side Management

Human Resources / Safety

Customers / General

Finance

Generation Expenditure

Transmission/ Distribution Expenditure

Overheads/ Other Expenditure

### Distribution and Customer Outages

			Comments
24	Number of DISTRIBUTION Forced (Unplanned) Outage Events (events) ⓘ	21	
24.1	Number of DISTRIBUTION Planned Outage Events (events) ⓘ	1	
24.2	Number of GENERATION Forced (Unplanned) Outage Events (events) ⓘ	8	
24.3	Number of GENERATION Planned Outage Events (events) ⓘ		
25	Length of Distribution Line (km / miles) ⓘ km	119.066	
26	Total Distribution Transformer Capacity (MVA) ⓘ	75.66	
27	Total Unplanned GENERATION Related Interruption Contribution (SAIDI - generation) (cust-mins) ⓘ	1671880	
27.1	Total Planned GENERATION Related Interruption Contribution (SAIDI - generation) (cust-mins) ⓘ		
27.2	Total Number of Customer Interruptions for Unplanned GENERATION Outages (customers) ⓘ	7857	NEW Qs
27.3	Total Number of Customer Interruptions for Planned GENERATION Outages (customers) ⓘ		NEW Qs
28	Total Unplanned DISTRIBUTION Related Interruption Contribution (SAIDI - distribution) (cust-mins) ⓘ	756087	
28.1	Total Planned DISTRIBUTION Related Interruption Contribution (SAIDI - distribution) (cust-mins) ⓘ	1761	
28.2	Total Number of Customer Interruptions for Unplanned DISTRIBUTION Outages (customers) ⓘ	720	NEW Qs
28.3	Total Number of Customer Interruptions for Planned DISTRIBUTION Outages (customers) ⓘ	4	NEW Qs

Next Save as Draft

## **Distribution and Customer Outage**

4. Click on 'Save as Draft' button if some information will be filled later.
5. Click on 'Next' button.
6. Application will save the form and move to the next questionnaire form i.e. 'Demand Side Management'.

# Demand Side Management:-

1. Click on 'Demand Side Management'.
2. Application will open a form with Demand Side Management information to be filled up.
3. Fill the form.

Wizard Benchmarking Year: 2017 / Utility Name: ASPA

Questionnaire Data Reliability Governance Gender Calculated Factors Indicators

Introductory Questions

Generation

Transmission

Distribution and Customer Outages

**Demand Side Management**

Human Resources / Safety

Customers / General

Finance

Generation Expenditure

Transmission/ Distribution Expenditure

Overheads/ Other Expenditure

### Demand Side Management

		Comments
29	* Does the utility actively engage in any demand side management initiatives? (Y/N) ⓘ	<input type="text" value="Yes"/>
29a	Installing sensors on lighting or other (Y/N)	<input type="text" value="No"/>
29b	Replacing old inefficient air conditioners with high-efficiency units (Y/N)	<input type="text" value="No"/>
29c	Performance testing of appliances and equipment (Y/N)	<input type="text" value="No"/>
29d	Replacing old refrigerators and freezers with new, high-efficiency units (Y/N)	<input type="text" value="No"/>
29e	Have varying rates for peak and off peak electricity usage (Y/N)	<input type="text" value="No"/>
29f	Educational program to consumers	<input type="text" value="No"/>
29g	Other 1 (please specify) ⓘ	<input type="text" value="Yes"/> Replacement of customers lights with LED bulbs/tube
29h	Other 2 (please specify) ⓘ	<input type="text" value="Yes"/> Replacement of HPS street lights with LED street
29i	Other 3 (please specify) ⓘ	<input type="text" value="Yes"/>
29j	Other 4 (please specify) ⓘ	<input type="text" value="Yes"/>
29k	Other 5 (please specify) ⓘ	<input type="text" value="Yes"/>
30	What is the budget for DSM? ⓘ	<input type="text" value="No dedicated staff to DSM, but incorporated between"/>
30a	*Replacing incandescent lighting with compact fluorescent lighting (Y/N)	<input type="text" value="No"/>
31	How many employees are engaged in DSM? (employees) ⓘ	<input type="text"/>
32	Has there been recorded savings by consumers? How much? (MWh (total)) ⓘ	<input type="text" value="Noted a decrease in the load."/>
33	What power Quality Standard applies, if any? ⓘ	<input type="text" value="None"/>

Next Save as Draft

## **Demand Side Management:-**

1. Click on 'Save as Draft' button if some information will be filled later.
2. Click on 'Next' button.
3. Application will save the form and move to the next questionnaire form i.e. 'Human Resource/ Safety'.

# Human Resources And Safety:-

1. Click on 'Human Resource and Safety'.
2. Application will open a form with Human Resource and Safety information to be filled up.
3. Fill the form.

Wizard Benchmarking Year: 2017 / Utility Name: ASPA

Questionnaire Data Reliability Governance Gender Calculated Factors Indicators

Introductory Questions

Generation

Transmission

Distribution and Customer Outages

Demand Side Management

**Human Resources / Safety**

Customers / General

Finance

Generation Expenditure

Transmission/ Distribution Expenditure

Overheads/ Other Expenditure

### Human Resources / Safety

			Comments
34	Total Days Lost Due to Work Injury During Period (excludes contractors) (days) ⓘ	30.88	N/A
35	Number of Lost Time Injuries During Period (excludes contractors) (LTIs) ⓘ	4	N/A
36	Total Number of Employees (excludes contractors) (employees) ⓘ	136	
37	Total number of employees in Distribution & Customer Service at Start of Period (employees) ⓘ	50	
38	Total number of employees in Distribution & Customer Service at End of Period (employees) ⓘ	45	
39	Total Hours Worked (excludes contractors) (hrs) ⓘ	274653	
40	Paid Hours Utility Generation Labour (hrs) ⓘ	165370	
41	Paid Hours Utility Distribution Labour (hrs) ⓘ	119798	
42	Total Paid Hours Employees Including Contractors (hrs) ⓘ	285168	

Next Save as Draft

## **Human Resources And Safety:-**

4. Click on 'Save as Draft' button if some information will be filled later.
5. Click on 'Next' button.
6. Application will save the form and move to the next questionnaire form i.e. 'Customers/ General'.



# Customers/General:-

1. Click on 'Customers/ General'.
2. Application will open a form with customer information to be filled up.
3. Fill the form.

Questionnaire

Data Reliability

Governance

Gender

Calculated Factors

Indicators

Introductory Questions

Generation

Transmission

Distribution and Customer Outages

Demand Side Management

Human Resources / Safety

Customers / General

Finance

Generation Expenditure

Transmission/ Distribution Expenditure

Overheads/ Other Expenditure

Customers / General

Comments

43	Electricity Sold (MWh) ⓘ	145225	1253	528	404	
44.1	Total No. of Customers at Start of Benchmarking Period (Main Grid) (connections) ⓘ	11841	NEW Qs			
44.2	Total No. of Customers at End of Benchmarking Period (Main Grid) (connections) ⓘ	11899	NEW Qs			
45.1	Total No. of Customers at Start of Benchmarking Period (Entire System) (connections) ⓘ	12276				
45.2	Total No. of Customers at End of Benchmarking Period (Entire System) (connections) ⓘ	12320				
46	Number of Households Supplied (Domestic Connections) (connections) ⓘ	10701				
47	Total Number of Households in the Country (households) ⓘ	10983				
48	Tariff Schedule / Tariff Table Attached? (Y/N) ⓘ	Yes				
49	Lifeline Tariff Available? (Y/N) ⓘ	No				
50	Maximum Threshold for Monthly Consumption Under Tariff (kWh/mth) ⓘ	240		Select File: <a href="#">Choose Files</a> No files chosen		
Uploaded Documents:		<a href="#">Download</a>				
51	Total Electricity Billed under Lifeline Tariff (MWh) ⓘ					
52	Total Domestic Electricity Billed (MWh) ⓘ	48864.87				
53	Total Commercial Electricity Billed (MWh) ⓘ	41110.02				
54	Total Industrial Electricity Billed (MWh) ⓘ	28109.33				
55	Total 'Other' Electricity Billed (eg Govt if not included above etc) (MWh) ⓘ	31526.43				
56	Total Unbilled Electricity Usage (MWh) ⓘ					
57	Is the utility self regulated or externally regulated? (self / external) ⓘ	Self regulated				
58	Do you have a maintenance plan for your utility? (Y/N) ⓘ	Yes				

[Next](#) [Save as Draft](#)

## **Customers/General:-**

1. Click on 'Save as Draft' button if some information will be filled later.
2. Click on 'Next' button.
3. Application will save the form and move to the next questionnaire form i.e. 'Finance'.

# Finance:-

1. Click on 'Finance'.
2. Application will open a form to be filled up.
3. Fill the form.

Questionnaire

Data Reliability

Governance

Gender

Calculated Factors

Indicators

Introductory Questions

Generation

Transmission

Distribution and Customer Outages

Demand Side Management

Human Resources / Safety

Customers / General

**Finance**

Generation Expenditure

Transmission/ Distribution Expenditure

Overheads/ Other Expenditure

Finance

		Comments
59	*Depreciation Generation Assets ⓘ	15000000
60	*Depreciation Transmission & Distribution Assets ⓘ	15000000
61	*Other Depreciation ⓘ	15000000
62	*Total Operating Revenue ⓘ	42787182
63	*Total Operating Expenses ⓘ	36306361
64	*Earnings Before Interest and Tax (EBIT) / Operating Profit ⓘ	8988366
65	*Profit After Tax (PAT) / Earnings After Tax (EAT) ⓘ	8988366
66	*Long Term Debt / Non Current Liability ⓘ	57098035
67	*Equity / Net Assets / Capital and Reserves ⓘ	149019650
68	*Non Current Asset at End of Previous Period ⓘ	74521005
69	*Non Current Asset at End of Benchmarking ⓘ	98255493
70	*Current Assets ⓘ	22468004
71	*Current Liabilities ⓘ	15342032
72	*Debtors/Receivables at Period End ⓘ	20083535
73	*Are utility finances independently audited? (Y/N) ⓘ	Yes
74	*What is the accounting standard used by the utility? ⓘ	US GAP

Next Save as Draft

## **Finance:-**

4. Click on 'Save as Draft' button if some information will be filled later.
5. Click on 'Next' button.
6. Application will save the form and move to the next questionnaire form i.e. 'Generation Expenditure'.

# Generation Expenditure:-

1. Click on 'Generation Expenditure'.
2. Application will open a form with generation expenditure related information to be filled up.
3. Fill the form.

**Wizard** Benchmarking Year: 2017 / Utility Name: ASPA

**Questionnaire** | Data Reliability | Governance | Gender | Calculated Factors | Indicators

**Introductory Questions**

**Generation Expenditure**

			Comments
75	*Hydrocarbon Based Fuel & Lubrication Oil Expenditure ⓘ	26143220	
76	*Duty and Taxes on Hydrocarbon Based Fuel & Lubricating Oil ⓘ	228041	
77	*Total Generation O&M Costs (utility) ⓘ	4537970	
78	*Generation Labour ⓘ	3117625	

**Generation Expenditure** (Selected)

Transmission/ Distribution Expenditure

Overheads/ Other Expenditure

**Next** **Save as Draft**

## **Generation Expenditure:-**

4. Click on 'Save as Draft' button if some information will be filled later.
5. Click on 'Next' button.
6. Application will save the form and move to the next questionnaire form i.e. 'Transmission/Distribution Expenditure'.

# Transmission/Distribution Expenditure:-

- Click on 'Transmission/Distribution Expenditure'.
- Application will open a form with Transmission/Distribution expenditure related information to be filled up.
- Fill the form.

The screenshot shows a web application interface for a 'Wizard' process. At the top, it says 'Wizard' and 'Benchmarking Year: 2017 / Utility Name: ASPA'. Below this is a navigation bar with tabs: 'Questionnaire' (active), 'Data Reliability', 'Governance', 'Gender', 'Calculated Factors', and 'Indicators'. On the left side, there is a list of categories: 'Introductory Questions', 'Generation', 'Transmission', 'Distribution and Customer Outages', 'Demand Side Management', 'Human Resources / Safety', 'Customers / General', 'Finance', 'Generation Expenditure', 'Transmission/ Distribution Expenditure' (highlighted with a blue arrow), and 'Overheads/ Other Expenditure'. The main content area is titled 'Transmission/ Distribution Expenditure' and contains two rows of data entry fields. The first row is for 'Transmission/ Distribution O&M Cost' with a value of 762650.55. The second row is for 'Transmission/ Distribution Labour' with a value of 1674932.68. Both rows have a 'Comments' field. At the bottom right, there are two buttons: 'Next' and 'Save as Draft', which are highlighted with a blue box.

			Comments
79	Transmission/ Distribution O&M Cost ⓘ	762650.55	
80	Transmission/ Distribution Labour ⓘ	1674932.68	

## **Transmission/Distribution Expenditure:-**

- Click on 'Save as Draft' button if some information will be filled later.
- Click on 'Next' button.
- Application will save the form and move to the next questionnaire form i.e. 'Overheads/ Other Expenditure'.



# Overheads/Other Expenditure:-

1. Click on 'Overheads/Other Expenditure'.
2. Application will open a form with overheads/other expenditure to be filled up.
3. Fill the form.

The screenshot shows a web application interface for benchmarking. At the top, there's a navigation bar with tabs: 'Questionnaire' (active), 'Data Reliability', 'Governance', 'Gender', 'Calculated Factors', and 'Indicators'. The top right corner displays 'Benchmarking Year: 2017 / Utility Name: ASPA'. On the left, a sidebar lists various categories: 'Introductory Questions', 'Generation', 'Transmission', 'Distribution and Customer Outages', 'Demand Side Management', 'Human Resources / Safety', 'Customers / General', 'Finance', 'Generation Expenditure', 'Transmission/ Distribution Expenditure', and 'Overheads/ Other Expenditure' (highlighted in blue). The main content area is titled 'Overheads/ Other Expenditure' and contains a table with three rows of expenditure data. Each row has a question number, a description, a numerical input field, and a comments field. At the bottom right, there are two buttons: 'Submit' and 'Save as Draft', which are highlighted with a blue border.

			Comments
81	Other Labour Expenditure (Customer Service, Head Office, Finance, HR, others) ⓘ	4564677.01	
82	Other Duty/ Taxes ⓘ	313964.12	
83	Other Expenditure ⓘ	1404077.33	

## **Overheads/Other Expenditure:-**

4. Click on 'Save as Draft' button if some information will be filled later.
5. Click on 'Submit' button.
6. Application will save the form.