

# CUSTOMER SERVICES DEPARTMENT

## 2019 ELECTRICITY & WATER BULK DEMAND SURVEY

FOR CUSTOMERS OF MORE THAN 5MW OF POWER AND 25m<sup>3</sup>/HOUR (0.132 MIGD) OF WATER

Date Received by Respondent: \_\_\_\_/\_\_\_\_/\_\_\_\_

Survey No (SN): 2019 / \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Year / Sl. No. / Sector (Pvt./Govt./Gen)/Customer

Date Returned to CSD : \_\_\_\_/\_\_\_\_/\_\_\_\_

Application No (If available):

### Section A - General

A1. Responded by:  Project Owner  Project Developer

A2. Project Title: \_\_\_\_\_

 Entirely new (first-time) survey for a new project  Update to an earlier survey (if existing project) SN: \_\_\_\_\_

A3. Project Location: City \_\_\_\_\_ Municipality \_\_\_\_\_ Geographical Zone No. \_\_\_\_\_ GIS PIN No. \_\_\_\_\_

Electricity Meter No (if available). \_\_\_\_\_ Water No \_\_\_\_\_

QID No./Establishment No./ Commercial Registration No.: \_\_\_\_\_

A4. Project Brief Scope and the Type of End-Product (E &amp; W): \_\_\_\_\_

(Survey shall include all components of E&amp;W such as construction of Camps, Labour Camps (Temporary &amp; Permanent))

A5. Project Ownership:  Government  Gov+ Private Joint Venture  Private Single Ownership  
 Private Joint Ownership

A6. Project Early Start: Quarter: \_\_\_\_ Year: \_\_\_\_ Project Early Finish: Quarter: \_\_\_\_ Year: \_\_\_\_

A7. Current Project Execution Status:  Planning  Feasibility  Design  
 Tendering  Construction  OperationA8. Current Project Financial Status:  Not Budgeted  Budget Approved  Finance Secured

A9. Project Developer's/Owner's Name: \_\_\_\_\_

A10. Product End user (E&W): \_\_\_\_\_  
(Customer is the final End User of KM Services)

A11. Contractor's Name: \_\_\_\_\_

A12. Project Consultant's name: \_\_\_\_\_

### Section B – Project Demand Information

B1. Type of Supply:  Existing  Additional  New  Temporary  Others: \_\_\_\_\_**Important:** If the Type of Supply is Temporary, Temporary Connection Forms and Metering Forms must be filled in when applying for supply. The form is available at Customer Services Department (Contact Head of Planning & Bulk Customers as Indicated below).

B2. Development Class (Detailed in page 6, item E7 to E11 under Specific Guide Lines):

 Governmental  Commercial  Industrial  Residential  Others \_\_\_\_\_For Industrial:  Heavy  Medium  Light (Classification as per Government License)

B3. Expected End-Use (%):

Electricity Expected % of Ultimate Demand:

Lighting                       Air conditioning                       Motors                       Arc Furnaces  
 Reactive Electricity Compensators                       Harmonic Generators  
 Labour Camp                       Others

Water % of Ultimate Demand:

Agriculture                       Landscaping                       Sanitation/Waste Disposal  
 Process Water                       Cooling                       Fire Protection                       Drinking  
 Cooking                       Washing/Cleaning                       Labour Camp                       Others

**B4. Project Specific Consumption Rates**

B4.1 Average electrical energy consumption per unit of production: \_\_\_\_\_ (MWh/Unit)

B4.2 Average water consumption per unit of production: \_\_\_\_\_ (Cubic Meter/Unit)

**B5. Yearly Maximum Demand & Quantity (See Table "B5")**

*Note: Before filling in Table B5, please see the Section E - Notes & Guidelines E7 to E11 on page 6.*

<b>Table B5 - Yearly Maximum Peak Demand &amp; Quantity</b>								
Year	Facility Population in the Year (Refer E14 in Page 7)	Project Execution Phase(Ref. AZ)	Electricity Demand in the Year		Potable Water Demand in the Year		Distillate Demand in the Year	
			Maximum Peak *MW (See E18)	MWh/Year	Maximum Peak **MIGD (See E18)	MIG/Year	Maximum Peak **MIGD	MIG/Year
<b>Past Years Historical Actual Demand</b>								
2014								
2015								
2016								
2017								
2018								
<b>Future Demand Forecast</b>								
2019								
2020								
2021								
2022								
2023								
2024								
2025								
2026								
2027								
2028								
2029								

\*MW= Megawatt                      \*\*MIGD= Million Imperial Gallons per day

**B 6 : Bulk Customer Having multiple project / Connections**

Project Name/s <sup>(1)</sup>		2019	2020	2021	2022	2023	2024
	Electricity (MW) <sup>(2)</sup>						
	Water (MIGD) <sup>(3)</sup>						
	Project Status (O,C,T,D,F,P) <sup>(4)</sup>						
	Electricity (MW) <sup>(2)</sup>						
	Water (MIGD) <sup>(3)</sup>						
	Project Status (O,C,T,D,F,P) <sup>(4)</sup>						
	Electricity (MW) <sup>(2)</sup>						
	Water (MIGD) <sup>(3)</sup>						
	Project Status (O,C,T,D,F,P) <sup>(4)</sup>						

1. These are the Project Names on KM Records. Please add/amend as required, denoting as existing and new project loads.
2. Electricity - Peak demand (in MW)
3. Water - Peak demand (in MIGD) total for potable & distillate
4. Project Status : O – Operation , C – Construction , T – Tender, D – Design , F – Feasibility, P - Planning

**Section C – In-House Electricity and Water Production Information**

**C1. Do you intend to supply your Electricity/Water demand through in-house production? (Y/N) \_\_\_\_\_**

**If Yes, please indicate the percentage of your requirements you intend to provide through your in-house production.**

**C1.1 Electricity (%) \_\_\_\_\_ C1.2 Water (%) \_\_\_\_\_**

**C2. Do you need backup supply from Kahramaa? (Y/N) \_\_\_\_\_**

If Yes, please tick mark if one or both apply:

Require Backup during Kahramaa's System Peak Periods. Electricity  Water

Require Backup during Kahramaa's System Off-Peak Periods. Electricity  Water

**C3. Please provide your in-house capability to produce electricity and/or water, if any:**

ELECTRICITY			
Unit No.	Generating Unit Description	Capacity (MW)	Type of generation technology (ST-GT-CC etc.....).

WATER			
Unit No.	Water Production Unit Description	Capacity (MIGD)	Type of Technology (MSF, MED, RO)

**C4. Do you intend to have Electricity/water exchange with Kahramaa? (Y/N) \_\_\_\_**  
 If Yes, please provide the following details:

ELECTRICITY EXPORT & IMPORT			
Year	Type of Exchange E – Export I – Import	Quantity (MWh/Year)	Indicative Tariff (QR/kWh)

WATER EXPORT & IMPORT			
Year	Type of Exchange E – Export I – Import	Quantity (Cubic Meter / Year)	Indicative Tariff (QR/Cubic Meter)

**Please suggest any provisional key commercial terms for Export and Import in the following space provided.** If the space is insufficient please attach a separate sheet. The terms you suggest are for survey purposes only and do not constitute any commitments by either party. Please contact the Head of Business Development, Corporate Planning & Business Development department if you need to discuss further, at Telephone 484-5475.

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### Section D – Attachments

**Please tick-mark if the following attachments are attached to the survey form or not.**

- D1. Project Location Map (Hardcopy & Electronic digital Auto Cad files  Yes  No.  
Copies) including proposed substation location with Coordinates for Electricity.
- D2. Project Master Schedule  Yes  No
- D3. Yearly Load Demand Curves  Yes  No
- D4. Proposed Electricity & Water Exchange Terms  Yes  No

### Section E – Notes & Guidelines

**General Notes:**

- E1. By signing this survey form the respondent warrants that all information provided are accurate and reliable to the best of Project Owner’s knowledge and Project Owner is properly authorized to provide such information to Kahramaa.  
Contact: Sr. Engineer, Bulk Customer, contact no: 4462 8220 Email: [fjacob@km.qa](mailto:fjacob@km.qa)
- E2. The respondent must be aware and acknowledge that all the information provided are for Kahramaa’s planning purposes only and does not imply commitment by the Project Owner or Kahramaa. If the Project Owner requires a commitment to supply then he must fill in and submit the Application Form which is available at Customer Services Department.
- E3. Normally Kahramaa is expected to be able to meet any bulk demand three (3) years prior the year at which the supply is required. Kahramaa requires a minimum lead time of three years to prepare for any future additional capacity required.
- E4. As per Qatar Ministry of Energy regulations, customers are not allowed to generate and meet their own electricity and water demand without prior permission from Kahramaa.
- E5. At its own discretion, Kahramaa may conduct an independent investigation to verify the accuracy of any and all information provided in this survey form by the respondent.
- E6. The information provided by the respondent about sites & corridors are considered as provisional only. In case of conflict between customer’s project sites &/ routes and KAHRAMAA existing and/or future sites and/or routes, the customer shall be responsible for the cost of any relocation of KAHRAMAA existing installations and obtaining the alternative sites and/or routes for future and/or relocated installations which are in conflict with his project sites and/or routes.

**Specific Guidelines for filling Item B2 in Page 1:**

**CLARIFICATIONS AND DEFINITIONS OF DEVELOPMENT CLASS IN 2019 SURVEY FORM**

- E7. GOVERNMENTAL:** Projects sponsored, financed, owned and contracted by Government Agencies like Qatar Government directly or Agencies like UPDA, MMAA, Qatar Foundation, National Health Authority, Kahramaa, Hamad Medical Corporation, and such others.
- E8. COMMERCIAL:** All Projects used for Business Purposes other than Industrial and Residential, which are Private like City Centre, Land Mark, Dasman Centre, Lulu Centre, Villagio, Hotels and such other Entities.
- E9. RESIDENTIAL:** All Individual Flats, Apartments, Grouped Buildings and Residential Complexes, Villas and Independent Houses used for purely for Residential Purposes of Families or Individuals.
- E10. MIXED COMPLEXES (RESIDENTIAL & COMMERCIAL):** All projects which may be a combination of both Residential & Commercial in nature such as The Pearl Qatar, Barwa, Lusail Development, North Beach Resort Projects, and such other Entities.
- E11. INDUSTRIAL:** All Projects, Which are basically Process /Production / Manufacturing in nature such as Qatar Steel, Qatar National Cement Company (QNCC), Qatar Fertilizers, All QP Process Projects and such other entities of this nature, other than Residential, Commercial & Mixed Residential Commercial nature. This Industrial class may be categorized into 3 categories: eg., Heavy, Medium and Light Industrial.

**Specific Guidelines for filling Table B5:**

- E12. Last 6 Years Historical Actual Demand.** For the 6 Years before the Survey year, please provide Actual Demand Figures for Projects that are in Operation phase.
- E13. Future Demand.** For the succeeding future years, please provide supply requirements in all the various phases of the Project. The information is to be provided by the respondent for a period not less than 14 years from the start of the planning phase.
- E14. Facility Population.** Provide the number of people requiring electricity and water for all phases of the project for each year.
- E15. Project Execution Phase.** Write the appropriate letter for each phase or a combination of the same (for parallel phase) as appropriate against each year with **P**=Planning, **F**=Feasibility, **D**=Design, **T**=Tendering, **C**=Construction, **O**=Operation.
- E16. Electricity Demand, Potable Water Demand and Distillate Demand.** First, fill in the historical demand for the last 6 years, if any. Then fill in the future demands in the succeeding future years. Attaching yearly demand curves will also help Kahramaa understand your requirements better.
- E17. Peak Demand for Water:** Means the highest Monthly Average Demand in Million Imperial Gallons per Day (MIGD) during the Year.
- E18. Peak Demand for Electricity:** Means the highest Electricity Demand in Megawatts (MW) during the Year.

**Specific Guidelines for filling Table B6.1 to B6.5:**

- E19. Facility Population.** Provide the number of people requiring electricity and water for all phases of the project for each month.
- E20. Project Execution Phase.** Write the appropriate letter for each phase or a combination of the same (for parallel phase) as appropriate against each month with **P**=Planning, **F**=Feasibility, **D**=Design, **T**=Tendering, **C**=Construction, **O**=Operation.
- E21. Electricity MW, Electricity MWh/Month, Potable Water MIGD, Potable Water MIG/Month, Distillate MIGD, Distillate MIG/Month.** Fill in the future demand information on each month of the year.

**Section F – Respondent Contact Information**

**Name** : \_\_\_\_\_ **Designation:** \_\_\_\_\_  
**Address** : \_\_\_\_\_  
**Telephone** : \_\_\_\_\_ **Mobile:** \_\_\_\_\_ **Fax:** \_\_\_\_\_ **Email:** \_\_\_\_\_  
**Signature** : \_\_\_\_\_ **Date (dd/mm/yy):** \_\_\_\_/\_\_\_\_/\_\_\_\_  
*Note: If Joint Venture Project then Joint Venture Leader shall sign.*

If any respondent data is provided by the Consultant, please provide the consultant's contact details as required below:

**Name** : \_\_\_\_\_ **Designation:** \_\_\_\_\_  
**Address** : \_\_\_\_\_  
**Telephone** : \_\_\_\_\_ **Mobile:** \_\_\_\_\_ **Fax:** \_\_\_\_\_ **Email:** \_\_\_\_\_  
**Signature** : \_\_\_\_\_ **Date (dd/mm/yy):** \_\_\_\_/\_\_\_\_/\_\_\_\_

**Section G –Survey Preliminary Analysis For Kahramaa Official Use Only**

Date Survey Form Received by CPBD from CSD (dd/mm/yy): \_\_\_\_/\_\_\_\_/\_\_\_\_

**Internal Circulation Process:**

1. After receiving from CSD, filled up Survey Forms shall be circulated by CPBD to all concerned departments. Department shall communicate their comments through a formal IDM to CPBD. If the space provided is insufficient for comments, they can separately attach more sheets.
2. If no comments from other departments are received by CPBD within 2 weeks after circulation, it shall be assumed that they have no further comments.
3. Should CPBD deem it necessary to verify any doubts on survey data in this form, CPBD shall require other departments to investigate further.

Dept	Comments	Name	Signature	Date (dd/mm/yy)	Date Comments Received by CPBD (dd/mm/yy)
ET					
EP					
ED					
WP					
WO					
WF					
TE					
TW					
CS					

Note: Pages 1 to 7 of this form should be filled in by the developer or owner of projects requiring a minimum demand of 5MW of electricity and/or 600 cubic meters/day (0.132 MIG) of water.