



# NET METERING

## Application Forms

KE Net Metering Facilitation Centre:  
Address: Second Floor, Block - K, Gate No 6,  
Elandar Complex, Elandar Road, Karachi  
Timing: 9:00 to 5:00 (weekdays)

## Section – I

### Schedule-II of Regulation 3(1) - NEPRA's Alternate & Renewable Energy Distributed Generation and Net Metering - 2015

## Applicant's Information

Name: \_\_\_\_\_ KE Consumer Number: \_\_\_\_\_

CNIC Number: \_\_\_\_\_ Cell Number: \_\_\_\_\_

Email: \_\_\_\_\_ Landline Number: \_\_\_\_\_

Billing Tariff: \_\_\_\_\_ KE IBC: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

DG System Address: \_\_\_\_\_

#### Premises Status:

Owner

Tenant

Consent from Owner

#### PV System Category:

Residential

Commercial

Industrial

Agricultural

#### Supply Voltage Level:

400 V

11 kV

#### System Capacity Category:

Up to 250 kW

Greater than 250 kW

**Sanctioned Load:** Current Sanctioned Load: \_\_\_\_\_

PV system up to Sanctioned load

PV system greater than Sanctioned load

## Section – II

## Vendor's Information

Name of Firm: \_\_\_\_\_ Vendor's Point of Contact Name: \_\_\_\_\_

Email: \_\_\_\_\_ Cell Number: \_\_\_\_\_

Vendor's AEDB Reg. ID: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

Has the pre-qualified vendor approved the technical specification of the system?

Yes  No

## Section – III

# PV System Information

PV System Capacity (kW): \_\_\_\_\_

Proposed Annual Generation (kWh): \_\_\_\_\_

### Solar Panels:

Type:  Poly Crystalline  Mono Crystalline  Thin Film

Brand and Model Number: \_\_\_\_\_ Peak Power of Each Panel (W): \_\_\_\_\_

Total Number of panels: \_\_\_\_\_ Azimuth (Degrees): \_\_\_\_\_

Tilt (Degrees): \_\_\_\_\_ GPS Coordinates (Latitude): \_\_\_\_\_

GPS Coordinates (Longitude): \_\_\_\_\_

Panel Spec Sheet Attached

### Inverter:

Type:  Grid Tied  Hybrid

Name Plate rating: \_\_\_\_\_ kW \_\_\_\_\_ kVA \_\_\_\_\_ V

Brand and Model number: \_\_\_\_\_

Inverter Spec Sheet Attached

Date of Installation / Commissioning of PV plant: \_\_\_\_\_

Predated if existing system

Required Date for Initiation of Net Metering: \_\_\_\_\_

System Single Line Diagram Attached

Proposed Interconnection Electrical Diagram Attached

### In case of solar PV system size above 250 kW:

Load Flow Study from Certified Electrical Consultant

NOC from Electrical Inspector

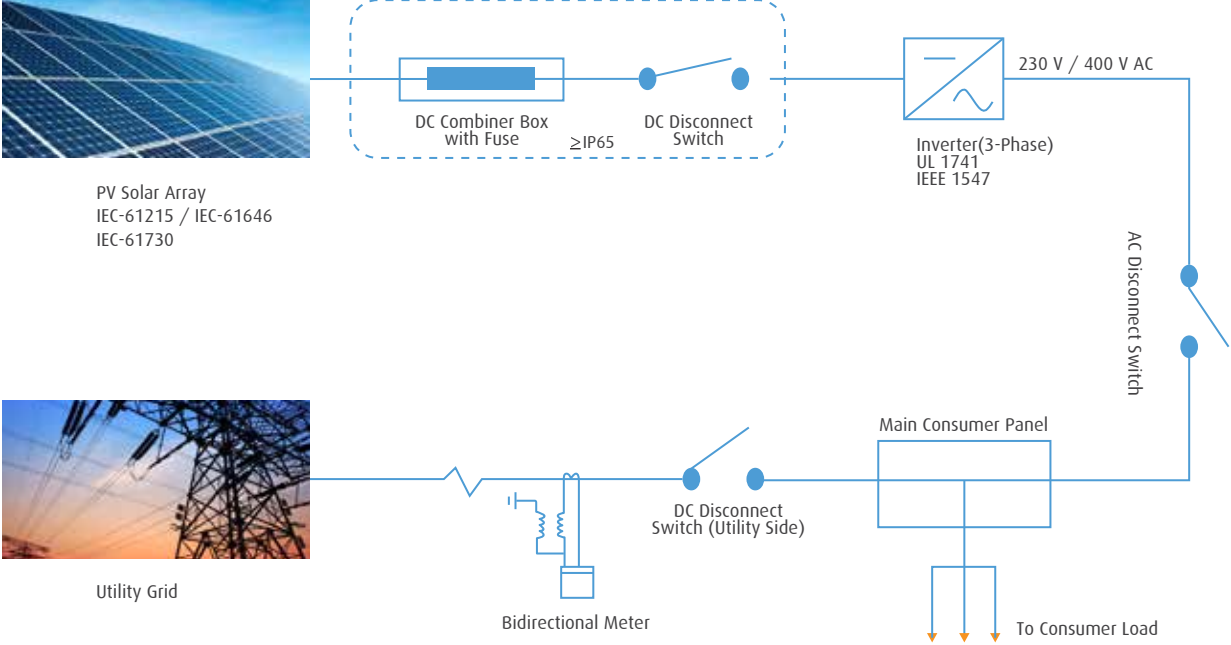
### Note:

Connection Charge Estimate will include Meter replacement cost and any additional charges for network enhancement / works (if any)

Applicant's Name & Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Vendor's Point of Contact: \_\_\_\_\_ Date: \_\_\_\_\_  
Name & Signature:

# Single Line and Interconnection Diagram



## Section – IV

# Self-Declaration of Connected Load

This declaration form is required to validate the connected load with sanctioned load at the Applicant’s premises

1. Name of the Consumer .....
2. Electricity Account No. ....
3. Details of Load Connected

Serial #	Name of Appliance	Load (W)	Number	Total load (W)

Total Aggregate Load .....kW

Note:

All consumers opting for Net Metering will be required, to duly fill the self-declaration form for the connected load on their premises. In case a major discrepancy is found, in the future, the consumer will have the DG disconnected from the utility.

KE’s brochure can be used for identifying the load of various appliances.

I hereby assure that the information provided is as per actual facts and within reasonable accuracy and that if found incorrect, I can be revoked the right of being a distributed generator with KE.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of the Consumer



**(KE Agreement Form  
and Forms Required to obtain  
Generation License of Distributed  
Generation from NEPRA)**

**Schedule – I**  
**[Regulation 2 (1) (b)]**  
**S.R.O. 892 (1)/2015**

**Distributed Generation Interconnection Agreement (1 kW to 1 MW) between Distributed Generator and Distribution Company**

The Distributed Generation Interconnection Agreement (the “Agreement”) is made and entered into this \_\_\_\_\_ (day) of \_\_\_\_\_ (month), \_\_\_\_\_ (year) by and between K-Electric Limited (KE) hereinafter called “KE” and \_\_\_\_\_ hereinafter called the “Applicant”. Applicant shall be a 3 phase 400 V or 11 kV consumer of KE. KE and the Applicant are hereinafter collectively referred to as the “Parties” and individually as a “Party”.

**Recitals**

- A. KE is the owner of the electric distribution system serving \_\_\_\_\_ [Insert legal description of property or address] “KE’s Distribution System”
- B. Applicant desires to install a Distributed Generator (DG) facility or energy storage device using solar energy resources with a capacity greater than 1 kW but no more than 1 MW, including related Interconnection equipment (the “DG facility”) and to interconnect the DG facility to the KE’s Distribution System.
- C. KE has previously reviewed and approved Applicant’s DG Interconnection Applicant Form dated \_\_\_\_\_, and supporting documents (the “Application”). The completed Application is attached as Exhibit 1 and incorporated into this Agreement.
- D. Applicant wishes to interconnect the DG Facility to KE’s distribution system and KE is willing to permit such interconnection subject to the terms and conditions set forth: (1) the completed Application approved by KE; (2) this Agreement
- E. No agency or partnership is created with the interconnection of the applicants’s DG Facility.

**Agreement**

NOW THEREFORE, in consideration of the foregoing Recitals and for good and valuable consideration, the KE and Applicant agree as follows:

**1. Design Requirement**

The DG Facility shall be installed in compliance with NEPRA (Alternative & Renewable Energy) Distributed Generation/Net Metering Regulations 2015.

**2. Applicant’s Representations and Warranties**

Applicant represents and warrants that:

- a) The DG Facility is fully and accurately described in the Application;
- b) All information in the Application is true and correct;
- c) The DG Facility has been installed to Applicant’s satisfaction;
- d) Applicant has been given warranty information and an operation manual for the DG Facility;
- e) Applicant has been adequately instructed in the operation and maintenance of the DG Facility.



### 3. Interconnection Disconnect Switch

KE may require that the Applicant furnish and install an interconnection disconnect switch that opens, with a visual break, all underground poles of the interconnection circuit. The interconnection disconnect switch shall be rated for the voltage and fault current requirements of the DG Facility, and shall meet all the applicable IEC, IEEE Standards, as well as applicable requirements of the NEPRA Grid Code. The switch enclosure shall be properly grounded. The interconnection disconnect switch shall be accessible at all times, located for ease of access KE personnel, and shall be capable of being locked in the open position. The Applicant shall follow KE's recommended switching, clearance, tagging and locking procedures.

### 4. Modifications to the DG Facility

Applicant shall notify KE of plans for any material modification to the DG Facility by providing at least forty working days of advance notice. "Material Modification" is defined as any modification that changes the maximum electrical output of the DG Facility or changes the interconnection equipment. The notification shall consist of a completed, revised Application and such supporting documents as may be reasonably requested by KE. Applicant agrees not to commence installation of any material modification to the DG Facility until KE has approved the revised Application.

### 5. Insurance, Indemnification, Liability

- 5.1 Distributed Generator shall obtain and maintain appropriate insurance for third party's personal injury and general commercial liability.
- 5.2 Each party as indemnitor shall defend, hold harmless, and indemnify the other party and the directors, officers, employees, and agents of the other party against and from any and all loss, liability, damage, claim, cost, charge, demand, or expense (including any direct, indirect or consequential loss, liability, damage, claim, cost, charge, demand, or expense, including attorney's fees) for injury or death to persons, including employees of either party, and damage to property, including property of either party, arising out of or in connection with (a) the engineering, design, construction, maintenance, repair, operation, supervision, inspection, testing, protection or ownership of the indemnitor's facilities, or (b) the making of replacements, additions, improvements to, or reconstruction of the indemnitor's facilities. This indemnity shall apply notwithstanding the active or passive negligence of the indemnitee. However, neither party shall be indemnified hereunder for its loss, liability, damage, claim, cost, charge, demand, or expense resulting from its sole negligence or wilful misconduct.
- 5.3 The indemnitor shall, on the other party's request, defend any suit asserting a claim covered by this indemnity and shall pay for all costs, including reasonable attorney fees that may be incurred by the other party in enforcing this indemnity.
- 5.4 The provisions of this Section shall not be construed to relieve any insurer of its obligations to pay any insurance claims in accordance with the provisions of any valid insurance policy.
- 5.5 Except as otherwise provided in this section, neither party shall be liable to the other party for consequential or remote damages incurred by that party.

### 6. DG Facility Commissioning Testing

Applicant shall notify KE in writing that installation of DG Facility is complete and that the interconnection equipment is available for testing by KE at least fifteen working days, duly certified by Electrical Inspector, before Applicant interconnects the DG Facility with KE's Distribution System. KE shall thereupon have the right to test the DG Facility. KE shall also have the right to witness any testing by Applicant of the DG Facility. Any KE testing of the DG Facility shall be completed within ten working days. After the testing which is to the satisfaction of both parties, the DG facility may be interconnected with the distribution system of KE to be witnessed by representatives of both parties within thirty eight days.



## 7. Access to DG Facility

Applicant shall permit KE's employees and agents to enter the property on which the DG Facility is located at any reasonable time for the purposes of inspecting and / or testing Applicant's DG Facility to ensure its continued, safe and satisfactory operation and the accuracy of KE meters. Such inspections shall not relieve Applicant of their obligation to maintain the DG Facility and any related equipment owned by Applicant in safe and satisfactory operating conditions.

KE shall have the right to witness any testing by Applicant of the DG Facility.

## 8. Temporary Disconnection of a DG Facility

KE may limit the operation and / or disconnect or require the disconnection of a DG Facility from KE's Distribution System at any time, with or without notice, in the event of fault. KE may also limit the operation and / or disconnect or require the disconnection of DG Facility from KE's Distribution System upon the provision of thirty days written notice for the conditions to allow for routine maintenance, repairs or modifications to KE's Distribution System.

## 9. Disputes; Right to Appeal to Authority

Nothing in this Agreement prevents Applicant from filing a petition with the Authority to appeal any requirement imposed by KE as a condition to interconnection of DG Facility which applicant alleges is unreasonable. In case of a dispute, the decision of the Authority shall be final and binding on both the parties.

## 10. Amendments; Non-Waiver

Any amendment or modification to this Agreement must be in writing and executed by Applicant and KE. The failure of Applicant or KE to insist on performance by the other party of any provision of this Agreement shall not waive the right of the Party who failed to insist on performance to enforce the same provision at a later time.

## 11. Term and Termination of Agreement

The term of Agreement between Distributed Generator and KE shall be three years with effect from the date of commissioning of DG Facility. At the expiry of initial term, the Agreement may be automatically renewed by the mutual understanding between Distributed Generator and KE for another term of three years and so on.

- a. KE may limit the operation and / or disconnect or require the disconnection of a DG Facility from KE's Distribution System at any time, with or without notice, in the event of fault. KE may also limit the operation and / or disconnect or require the disconnection of DG Facility from KE's Distribution System upon the provision of thirty days written notice for the conditions stated below:
  - To allow for routine maintenance, repairs or modifications to KE's Distribution System
  - Upon KE's determination that DG Facility is not in compliance with these Rules
  - Upon termination of the Agreement
- b. This Agreement may be terminated in accordance with these Regulations.
- c. The Distributed Generator may terminate the Agreement upon thirty days written notice if the Distributed Generator determines to discontinue the sale of electricity to KE.
- d. KE shall not terminate the Agreement in any event without prior approval of the Authority.
- e. All rights and obligations accrued up to termination shall continue in force upon termination.

### 12. Successors and Assigns

- a. Assignment by Applicant: Applicant shall not assign its rights and obligations under this Agreement in whole or in part without the prior written consent of KE; which consent shall not be unreasonably withheld or unduly delayed. KE may withhold its consent to any proposed assignment if the proposed assignee fails to assume the obligations of Applicant under this Agreement in writing.
- b. Assignment by KE: KE shall have the right to assign this agreement in whole upon written notification to the Applicant.
- c. Successors: this Agreement shall be binding upon the personal representatives, heirs, successors and permitted assigns of the respective Parties.

### 13. Signature and Seal of the Applicant and KE

IN WITNESS WHEREOF, Applicant and KE have executed this Agreement as of the year and date first set forth above.

Applicant's Signature & Date

KE's Signature with Seal & Date

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Title

Title

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Witness No.1 (Name & Signature)

Witness No.1 (Name & Signature)

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Witness No.2 (Name & Signature)

Witness No.2 (Name & Signature)

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**Schedule – III**  
**[Regulation 4(2)]**  
**S.R.O 892 (1)/2015**

**APPLICATION FOR GRANT OF LICENSE**  
**NATIONAL ELECTRIC POWER REGULATORY AUTHORITY (NEPRA)**

1. Name of Applicant:	
1. (a) CNIC of Applicant / CUIIN in case of Company (Copy to be attached)	
1. (b) Address:	
1. (c) Contact Nos:	
1. (d) Email Address:	
2. Location of DG Facility:	
3. Name of KE with which the DG facility is proposed to be interconnected	
4. Size of DG facility:	
5. Approximate monthly energy proposed to be supplied to KE (kWh):	
6. Fee to be deposited: (Non-Refundable)	

Applicant's Signature

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Date

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**Schedule – IV**  
**[Regulation 4(2) (b)]**  
**S.R.O. 892 (1)/2015**

**Application for Exemption from section 24 of the Act**

I/We, \_\_\_\_\_ for the purposes of grant of License of Distributed Generator under NEPRA (Alternative & Renewable Energy) Distributed Generation/Net Metering Regulations 2015, hereby request the Authority for grant of exemption from the requirement of being registered as a company under the Companies Ordinance, 1984 (XLVII of 1984) under section 24 of the Act.

**Name and Address of Distributed Generator:** \_\_\_\_\_

**Signature** \_\_\_\_\_

**Schedule – V**  
**[Regulation 4(2) (c)]**  
**S.R.O. 892 (1)/2015**

**Fee Schedule**

A Distributed Generator shall be bound to pay the one-time fee through pay order in favour of National Electric Power Regulatory Authority (NEPRA) as per following fee schedule:

<b>Serial #</b>	<b>Size of the DG Facility</b>	<b>Cost</b>
1.	0-20 kW	Free of Cost
2.	>20-50 kW	Rs. 500/-
3.	>50-100 kW	Rs. 1000/-
4.	>100-1000 kW	Rs. 5000/-

**Schedule – VI**  
**[Regulation 4(2) (d)]**  
**S.R.O. 892 (1)/2015**

**Affidavit**  
**(On non-judicial paper of Rs. 5/-)**

I/We, \_\_\_\_\_, hereby confirm that I/we have read the NEPRA License Template and agree to abide by its Terms and Conditions and the contents of the Application are true and correct to the best of my knowledge and belief and nothing has been concealed thereof.

**Deponent**

**Name** \_\_\_\_\_

**CNIC No.** \_\_\_\_\_

**Date** \_\_\_\_\_

**Schedule – VII**  
**[Regulation 4 (3)]**  
**S.R.O. 892 (1)/2015**  
**Generation License Template**

1. NEPRA hereby grants Generation License to \_\_\_\_\_ under Regulation 4 of the NEPRA (Alternative & Renewable) Distributed Generation/Net Metering Regulation 2015 for a period of \_\_\_\_\_ years. This License is valid up to 20\_\_\_\_\_.

2. The Licensee shall abide by the provisions under NEPRA (Alternative & Renewable) Distributed Generation/Net Metering Regulation 2015 during the currency of the License.

3. The technical parameters of the Net Metering arrangement are shown hereunder;

- i. Primary Energy Source \_\_\_\_\_
- ii. Size of DG Facility \_\_\_\_\_
- iii. Generator/Inverter Information \_\_\_\_\_  
Manufacturer: \_\_\_\_\_ , Model No. \_\_\_\_\_
- iv. Generation Type \_\_\_\_\_

4. This License may be renewed subject to NEPRA Regulation \_\_\_\_\_

\_\_\_\_\_  
**NEPRA Authority**

\_\_\_\_\_  
**Name and Address of  
Distributed Generator**