

Checklist for New Developments

Domestic Charging Points: Minimum Technical Requirements

- Charge station type and model
- Number of Chargers to be installed
- Rated Output (kW)
- Maximum Charge Rate
- Supply Characteristics power, voltage, current and operating limits
- Available control actions
- Connector types
- Charge Management Subscription/Enrolled Program
- GPS Coordinates and Site Plan
- Projected Load Growth
- Expected Start date
- Expected date of Completion
- Hours of operation
- Communication Protocols: DNP3, OpenADR, IEEE 2030.5

Type of Supply

- Temporary/Construction Power
- Permanent

Transformer Requirement & Voltage Connection

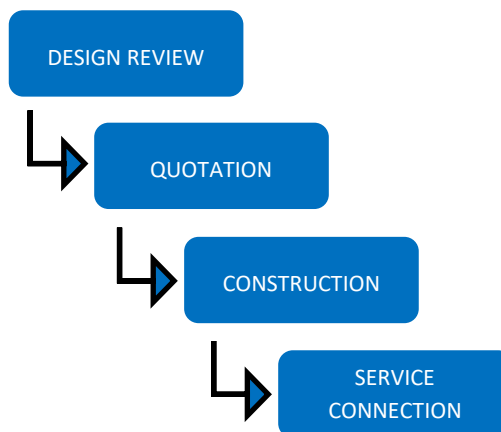
- Transformer Sizing
 - Load Demand
 - 1-Phase or 3-Phase
- Available Pad-Mounted Transformers Sizes (kVA)
 - 1-Phase - 25, 37.5, 50, 100, 150, 167
 - 3-Phase - 100, 150, 200, 300, 500, 750, 1000, 1500, 2000, 2500, 3000
- Standard Voltage:
 - 415/240 V 3-Phase, 50Hz
 - 220/110V 3-Phase, 50Hz
 - 220/110V 1-Phase, 50Hz

SOURCE OF POWER:

Types of Electrical Distribution Infrastructure

- Overhead
- Underground

PROJECT PHASES



IMPORTANT POINTS TO NOTE

- The Electric Vehicle Charging Station must be connected on a separate kWh meter.
- All Installations above 7kW must be on an independent supply and meter
- All applications that require a distribution line extension or upgrade must go through JPS' design approval, quotation and construction process
- Any changes after the initial assessment will require the submission of updated drawings and the reassessment and revision of quotation
- The GER certification for temporary supply is valid for three months. Re-certification by the GER is required upon expiration.

Documentation required for establishment of contract:

- Application letter on the Company's letter head signed by a director. Company seal must be affixed below signature
- GER certification of metering point
- Load details
- Proof of ownership
- Certificate of Incorporation

DEVELOPERS' GUIDE

Electric Vehicle Charging Stations



The JPS Team wants to ensure that your construction project progresses smoothly. Before you begin your new construction, it is important that you know the requirements for receiving electricity from JPS. To assist you, we have provided below some guidelines to help you meet the requirements to receive power supply connection from JPS.

Requirements to proceed with JPS Assessment and Preparation for the Construction Phase

JPS Primary voltage

- 24/13.8kV, 3-Ph, GRD Wye.
- 12/6.9kV, 3-Ph, GRD Wye.
- 13.8kV, 3-Ph, Delta

Transformer and Voltage Requirements

JPS only stocks pad-mounted transformers with secondary voltages:

- ◆ 415/240V, 3Ph
- ◆ 220/110V, 3-Ph
- ◆ 220/110V, 1-Ph

JPS does not stock non-standard transformers. However, the same can be supplied, given a lead time of 4 to 6 months. Additionally, these facilities shall be primary metered and we recommend that the system be designed and constructed with a backup transformer to mitigate against failure.

Documentation required to provide guidance to the Developer

- Surveyor's Declaration
- Pre-checked Site Plan for the facility, stamped and approved by the Survey and Mapping Department
- Copy of Parish Council approval and associated conditions of approval
- Proof of ownership or authority to erect infrastructure
 - I. Copy of Title
 - II. Power of Attorney
 - III. Lease contract
- Soft copy of approved electrical distribution design in ACAD 2016 format Geo-referenced to JAD 2001, superimposed on the Pre-checked Site Plan, to include water, sewerage, gas piping, drainage, communications and any other utilities or facilities that may impact the distribution system.

Responsibilities of the Developer

- All drawings must be reviewed and approved by a Professional Engineer licensed to practice in Jamaica.
- Ensure that all civil works are completed to the satisfaction of JPS, the Government Electrical Inspectorate and the local parish council (where applicable), at the developer's cost.
- Seek and obtain all statutory approvals necessary to legally complete the distribution infrastructure. Such approvals shall include, but not be limited to, easements, excavations and limitation of access to public thoroughfares. Where such approvals are not forthcoming, then JPS shall be indemnified against any liability associated with the provision of electrical supply for the subdivision.
- Provide all detailed electrical and civil designs for the three phase supply inclusive of JPS riser poles to the transformer low voltage terminals and to the property main distribution panel boards for each transformer to JPS for review and approval.
- These designs must include:
 - * Civil designs c/w duct work and manhole layout
 - * Electrical Layout
 - * Grounding Layout c/w grounding details
 - * Substation Layout c/w fencing details
 - * Cable schedules.
 - * Load details for each transformer complete with the voltage associated with each transformer load.

All designs shall be approved by a Professional Engineer (Electrical) registered to practice in Jamaica.

