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Best Practice

In reviewing project applications, the following are the high-level questions Con Edison is checking for across the submitted documents. **Most importantly, all information across documents must be consistent.**

- Are all the documents telling the same story?
- Where is the project located? Is that consistently stated in all documents?
- Who is applying? Who owns the project? Is that consistently stated in all documents?
- Does the application indicate a requested design type?
- What is the project size? Are the quantities and sizes of equipment consistent across documents?
- What are the planned operating characteristics of the project? When is the customer planning to charge and/or discharge? Is there an intent to export onto the electric grid?
- Has the customer familiarized themselves with the relevant Con Edison specifications and guides provided on the [Distributed Generation website](#):
 - [Energy Storage Guide](#)
 - [PV Solar Guide](#)
 - [Con Edison Default IEEE 1547 Inverter Settings](#)
 - [High Tension Network Design, High Tension Non-Network Design](#)

Required Document Checklist

This checklist is intended to assist customers in preparing more complete application submissions. It does not cover every possible scenario or project type, and submissions may still be rejected for revision or additional information to ensure accuracy and clarity.

1. Customer Letter of Authorization

Item	Description Detail	Related Document(s)
a.	Service address	All

2. Verification Testing Procedure

Item	Description Detail	Related Document(s)
a.	Service address, account name	All
b.	Project size, capacity	All
c.	Operational parameters (when will the project operate?) If hybrid project, what is the maximum amount of export (will solar be used in addition to battery?)	General: 3-Line Diagram, Site Plan If ESS: Appendix K, Charge/Discharge Curve
d.	Detailed testing plan specifying pre-test plans, relay testing, battery module testing, commissioning plan, and any future testing plans	3-Line Diagram, Site Plan

3. Inverter Manufacturer Specification Equipment Cut Sheet

Item	Description Detail	Related Document(s)
a.	Inverter cut sheet included	3-Line Diagram
b.	Inverter option codes, <ul style="list-style-type: none">If applying to use a Tesla Megapack, highlight/call out all option codes.	3-Line Diagram, Appendix B, If ESS: Appendix K, ESS Data Sheet
c.	Selected equipment configuration is clearly marked	
d.	Equipment ratings are clearly marked	
e.	UL 1741 SB compliant specified	
f.	IEEE 1547 compliant specified	
g.	Equipment ratings and model numbers are consistent with other documents	General: 3-Line Diagram, Site Plan If ESS: Appendix K, ESS Data Sheet
h.	If the customer is claiming their system is smaller than the cut sheet nameplate, factory-issued inverter derate letter is required	

4. ESS Data Sheet

Item	Description Detail	Related Document(s)
a.	Provide manufacturer's cut sheet	3-Line Diagram, Appendix K, Appendix B, Site Plan
b.	Highlight battery capacity (kWh)/rating	3-Line Diagram, Appendix K, Appendix B
c.	If in NYC, battery must be approved for use by the FDNY <ul style="list-style-type: none"> Confirm battery model is listed on FDNY Certificate of Approval list 	

5. Application Form G

Item	Description Detail	Related Document(s)
a.	Service address, account name	All

6. Appendix H

Item	Description Detail	Related Document(s)
a.	Clear and consistent identification of parties involved in the project	Appendix J
b.	Service address, account name	All

7. Appendix J: Site Control

Item	Category	Description Detail	Related Document(s)
a.	General Information	Service address, account name	All
b.	Type of Agreement	Clearly mark type of agreement option chosen by the developer and property owner	Appendix H
c.	Agreement Timeline	Dates provided in MM-DD-YYYY format	
d.	Terms of Agreement	Date provided is a future, non-expired, date in MM-DD-YYY format	
e.	Terms of Agreement	Clear and consistent identification of parties involved in the project, all information provided	Appendix H, Original Work Request Doc.
f.	Terms of Agreement	Signatures from both parties	

8. Appendix B or Appendix C (auto-generated)

Item	Description Detail	Related Document(s)
a.	Service address, account number, representative parties (developer, owner, etc.)	All
b.	Type and amounts of equipment (inverters, battery modules, etc.)	Appendix K, 3-Line Diagram, Inverter Manufacturer Spec. Equip. Cut Sheet, Site Plan
c.	Project capacity	Appendix K, Verification Testing Procedure
d.	Import/export requested	Appendix K, Charge/Discharge Curve, Verification Testing Procedure,

e.	Method of Grounding	3-Line Diagram
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9. Appendix K (ESS Projects only)

The item letters referenced below correspond directly to those used in the latest Appendix K form, as per the NYSSIR dated 8/1/2025.

Item	Category	Description Detail	Related Document(s)
a.	General Info.	Information provided includes: <ul style="list-style-type: none"> • System type • Requested design type • Requested design contingency (N-1, N-2) • System configurations, inverter codes if applicable • Real power (kW) and apparent power (kVA) nameplate • Export and import capacity (kWh) • Round trip efficiency • Point of interconnection • Service address • BBL (for NYC) or SBL (outside of NYC) 	Inverter Manufacturer Specification Equipment Cut Sheet, ESS Data Sheet, 3-Line Diagram, Site Plan
b.	System type	Select applicable system option	
c.	Market participation	<ul style="list-style-type: none"> • Indicate any market participation, be sure to note any service configuration requirements or other items to comply with program requirements • Ensure requested operational windows are consistent with any program participation 	Charge/Discharge Curve
d.	DER Nameplate Rating	Fill out tables 1 & 2 for requested system configuration <ul style="list-style-type: none"> • Ensure system size/capacity is consistent across all documents and corresponds to the inverter nameplate rating(s) 	Inverter Cut sheet, BESS Data Sheet, Appendix B, 3-Line Diagram
e.	Data/Rating Sheets	Provide data/rating sheets for AC and/or DC components of equipment <ul style="list-style-type: none"> • Ensure model marked and capacities are consistent with other submitted documents 	Inverter Cut sheet, ESS Data Sheet, Appendix B, 3-Line Diagram
f.	Type of ESS	Identify equipment type	3-Line Diagram, Site Plan, Appendix B, ESS Data Sheet, Inverter Cut Sheet
g.	Real/reactive power	Indicate what system will provide	

h.	Reactive power control	Indicate what system will provide	
i.	Inverter rating	Indicate applicable inverter compliance	Inverter Cut sheet, 3-Line Diagram
j.	System Import	Specify total system import for ESS and aux loads <ul style="list-style-type: none"> Fill out table 3 	ESS Data Sheet
k.	Ramp rate	Indicate desired ramp rate <ul style="list-style-type: none"> Ensure it is consistent with provided charge and discharge data/curve attachment Ensure ramp rate is compliant with 5 min test per IEEE 1547 	Charge/Discharge Curve
l.	Symmetrical/Asymmetrical	Provide requested information	
m.	Max Power Magnitude	Provide requested information, ensure it is consistent with item k	
n.	Operational Windows	Fill out tables 4 and 5 <ul style="list-style-type: none"> Ensure requested rates are sufficient for the submitted battery capacity 	Charge/Discharge Curve
o.	Protection and Control	Explicitly specify the equipment that is exporting to the electric grid and magnitude of export, if applicable <ul style="list-style-type: none"> Describe relay models and explanation of protection scheme 	
p.	Control Schemes	Provide requested information	
q.	Short Circuit and Harmonics	Provide requested information	
r.	Behind-the-Meter ESS	Describe operational characteristics	

10. Three Line Diagram

Item	Description Detail	Related Document(s)
a.	Provide system summary, include: <ul style="list-style-type: none"> Service address Responsible party Project details 	All
b.	Include Title Block with following info <ul style="list-style-type: none"> Developer name Utility name Project name and the Utility Project Number Sheet size Revision table 	
c.	Include a symbols, legends, and abbreviations list	

	<p>blockhouse cannot be used as the generator disconnect switch</p> <ul style="list-style-type: none"> • The generator disconnect shall only disconnect the DER, not traditional load and, if possible, not aux load • If two breakers are to operate as the generator disconnect, the customer must provide an Order of Operations under which they will be opened/closed 	
j.	<p>Provide inverter setpoints in tabular form, include:</p> <ul style="list-style-type: none"> • ANSI device number • Ramp rate • VAR control • Pick up values <p>Provide IEEE1547 inverter relay settings in tabular form on the diagram.</p> <p>OV1 – 1.1 pu / 2.0 sec OV2 – 1.2 pu / 0.16 sec UV1 – 0.8 pu / 3.0 sec UV2 – 0.5 pu / 1.1 sec OF1 – 61.2 Hz / 300 sec OF2 – 62.0 Hz / 0.16 sec UF1 – 58.5 Hz / 300 sec UF2 – 56.5 Hz / 0.16 sec</p>	<p>See IEEE 1547 Default settings on Con Edison’s website</p>
j. (Cont.)		
k.	<p>Show transformer winding configuration</p> <ul style="list-style-type: none"> • For EO-10215 designs, wye-wye) • For EO-2022 designs, delta-wye 	
l.	Show VAR requirements	
m.	P.E. Stamp required for projects receiving electric service over 1 kV at the POI	
n.	<p>Auxiliary power load and connection is shown</p> <ul style="list-style-type: none"> • The site must be able to receive power in the event the primary side of the breakers open 	
o.	<p>Design shown matches design requested</p> <ul style="list-style-type: none"> • 3-Line Diagram shall align with relevant EO spec. (reference Con Edison’s Guides & Specifications for Distributed Generation website for relevant specifications) 	<p>General: Site Plan If ESS: Appendix K</p>
p.	<p>Bus Isolation:</p> <ul style="list-style-type: none"> • For EO-2022 designs the customer should be able to isolate the bus tie with a visible break device on both the line and load side of the tie point 	

	<ul style="list-style-type: none"> For EO-2022 designs the customer shall clearly indicate the breakers which will be normally open (NO) and normally closed (NC) 	
q.	<p>Bus Ratings: Customer shall provide the rating of the bus onto which the generation will export</p> <ul style="list-style-type: none"> Bus must be rated to serve load from the entire DER If during the design phase a change in bus rating necessitates a change in design, a material modification request must be filed 	
r.	<p>Include a revision table and utilize revision clouds with numbered revision triangles to assist with identifying the changes in the drawing from the previous version</p>	

11. Site Plan

Item	Description Detail	Related Document(s)
a.	System summary including service address, relevant parties, total project size, equipment, plan for service, capacity, and duration	All
b.	Provide satellite image clearly showing arrangement on property, existing and proposed property lines, identify distances and equipment, and directional arrow	
c.	If requesting a new service, provide a site plan drawing with the proposed interconnection point identified by a satellite image. The drawings shall show all electrical components proposed for the installation and their connection to the existing on-site electrical system from that point to the PCC and shall be clearly marked to distinguish between new and existing equipment. For those projects on existing services, account and meter numbers shall be provided	3-Line Diagram
d.	<p>Equipment details aligned with other documents. Identify the following device location using a leader:</p> <ul style="list-style-type: none"> Inverter(s) Equipment pad Generator Disconnect Switch Underground and overhead cables Point of common coupling (PCC) Property line structure(s) 	Appendix K, 3-Line Diagram
g.	Ensure layout aligns with type of service requested (EO-2022, EO-10215, etc.)	Appendix K, 3-Line Diagram
f.	<p>DER sites receiving their own service from the street cannot overlap with that of a previously submitted DER application</p> <ul style="list-style-type: none"> If there is an adjacent project(s), ensure clear boundaries are identified 	

	<ul style="list-style-type: none"> • If applicable, include MCID of adjacent project(s) • Each DER application must have street access sufficient to accommodate the required property line structure(s) 	
g.	<p>Project site does not exceed an aggregated 5MW export</p> <ul style="list-style-type: none"> • For sites with multiple projects, if the aggregated export size exceeds 5 MW, under the Order Modifying Separate Site Requirements (issued and effective April 15, 2021) the site is required to be sub-divided. Utility construction shall not commence until the project adheres to this requirement. All SIR guidelines shall remain in effect in parallel with this requirement • Multiple projects at a location should be clearly marked, each project should be labeled with its respective site address and MCID, if available. Additional projects that are not the target project should be grayed out 	
h.	If applicable, indicate FEMA flood zone	
i.	<p>Include Title Block with following info</p> <ul style="list-style-type: none"> • Developer name • Utility name • Project name and the Utility Project Number • Sheet size • Revision table 	