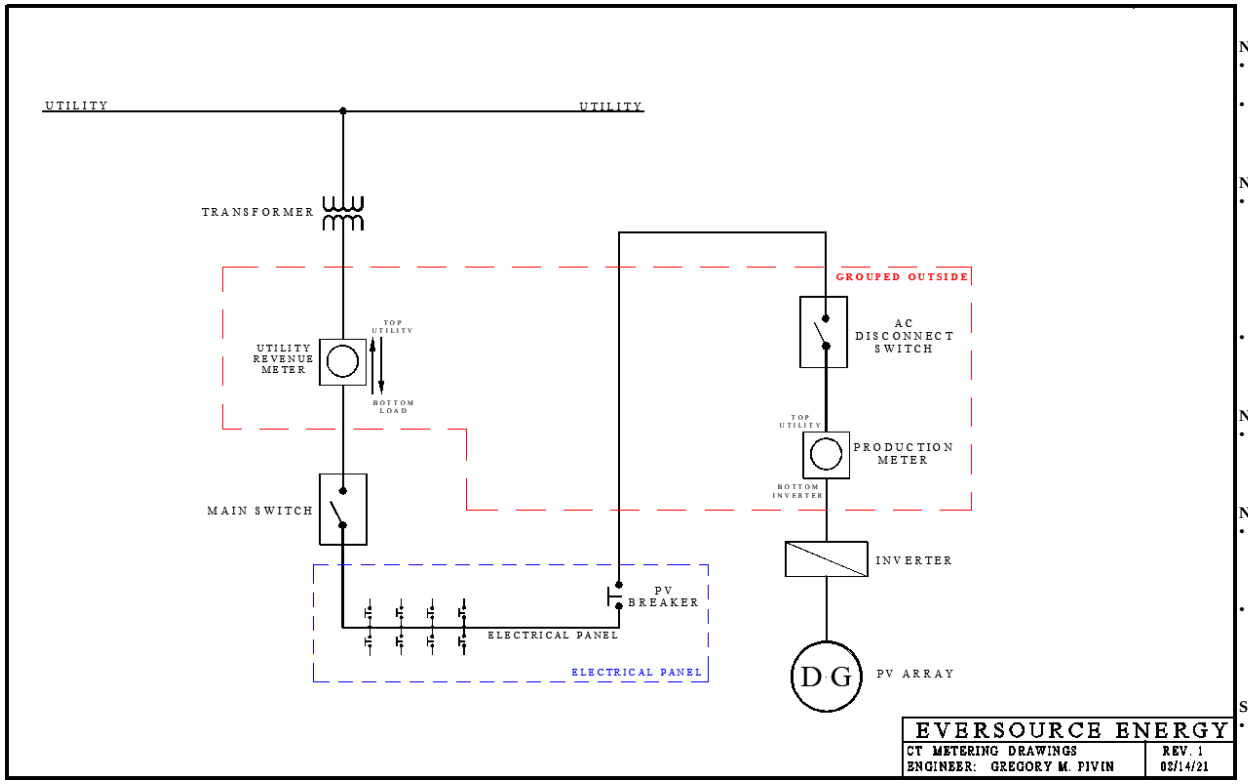
Metering Guidelines
CT Residential Renewable Energy Netting and Buy-All Tariffs

Residential Solar (<25 kW) Class 1

1a. Netting Tariff < 25kW, no ESS



Note 1 – PoC
- **All interconnection points are required to be located behind the utility revenue meter**
- **>>> No connections are to be made within the utility revenue meter socket or in utility transformer compartment. <<<**

Note 2 – Utility Revenue Meter
- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the production meter and the utility disconnect switch.**

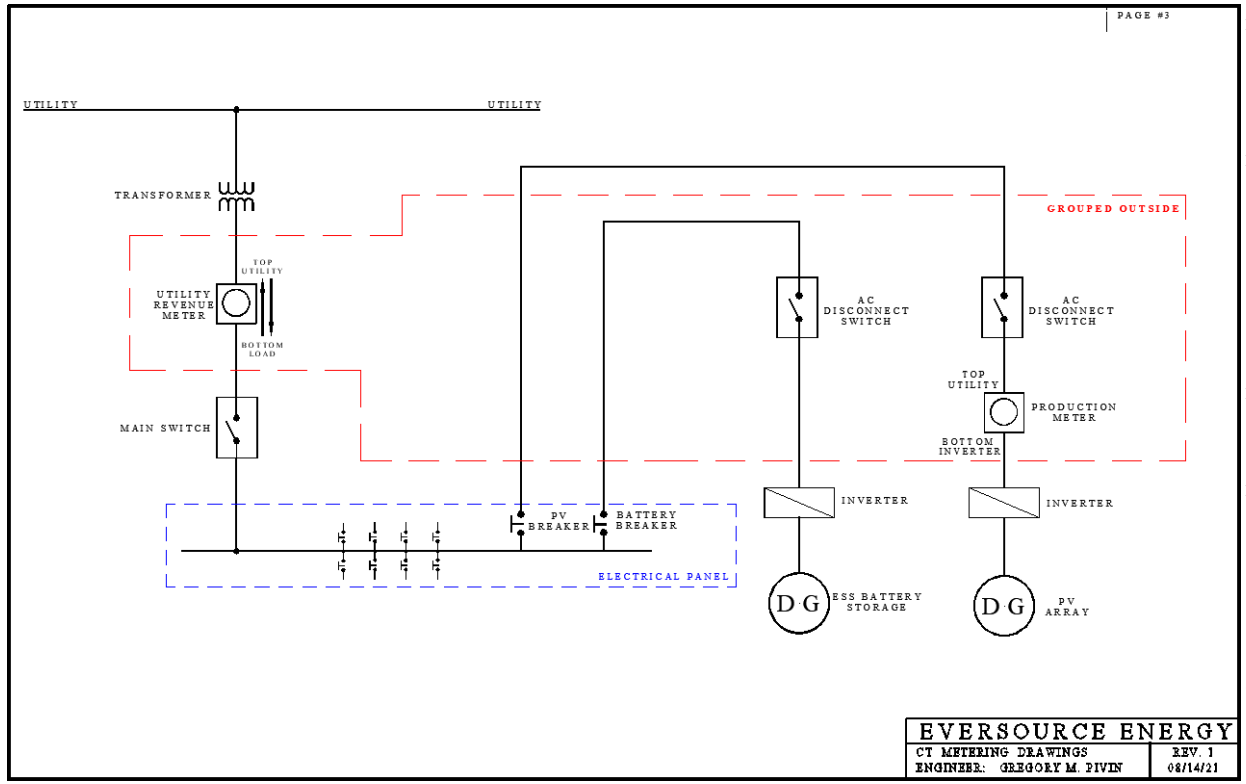
- **Existing 400A service metered with current transformers must be updated to a self-contained CL320 meter socket**

Note 3 – Utility Production Meter
- **Utility feed for the production meter, the socket is required to be wired top side utility, bottom side inverter.**

Note 4 – Utility AC Disconnect Switches
- **The utility AC emergency disconnect switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access.**
- **The utility AC emergency disconnect switch is required to be located ahead of the production meter where utility personnel will be able to isolate the production metering circuit.**

Special Notes:
- **All meters and switches are required to be grouped.**

1b. Netting Tariff < 25kW, AC-coupled ESS



Note 1 – PoC
- **All interconnection points are required to be located behind the utility revenue meter**
- **>>> No connections are to be made within the utility revenue meter socket or in utility transformer compartment. <<<**

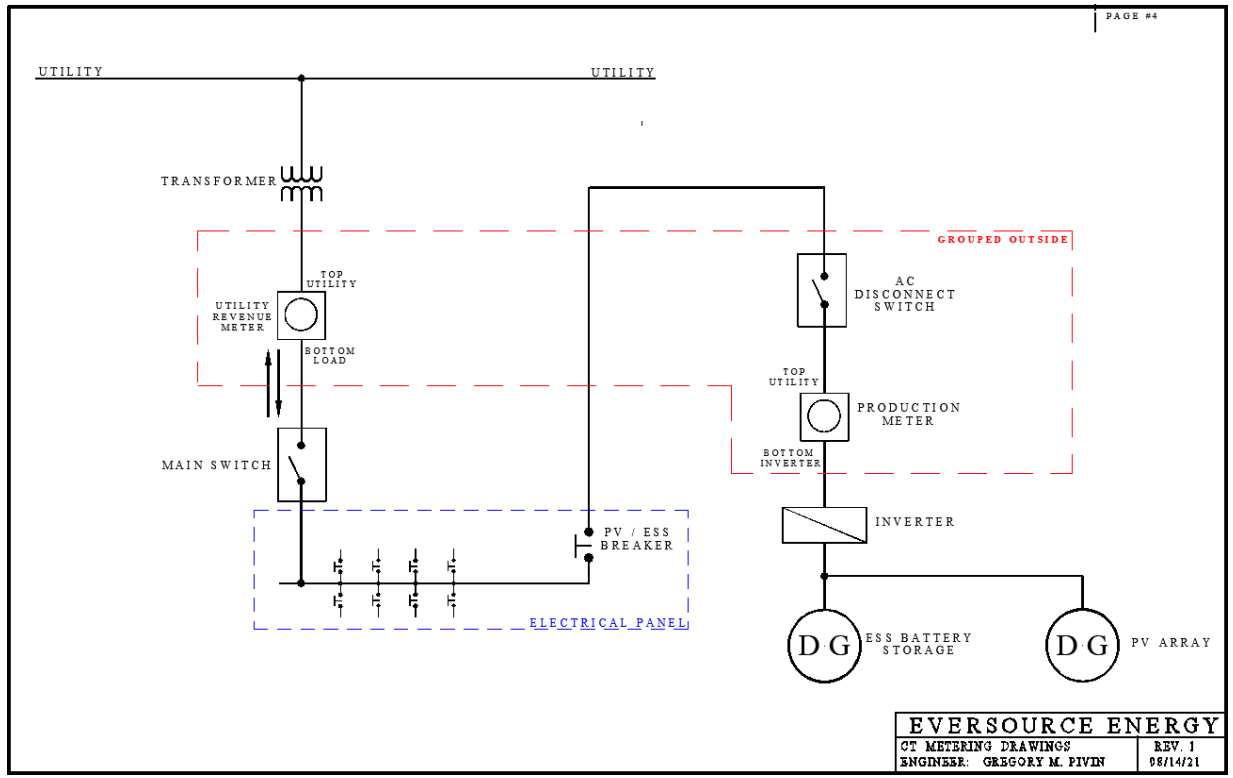
Note 2 – Utility Revenue Meter
- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the production meter and the utility disconnect switch.**
- **Existing 400A service metered with current transformers must be updated to a self-contained CL320 meter socket**

Note 3 – Utility Production Meter
- **Utility feed for the production meter, the socket is required to be wired top side utility, bottom side inverter.**

Note 4 – Utility AC Disconnect Switches
- **The utility AC emergency disconnect switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access.**
- **The utility AC emergency disconnect switch is required to be located ahead of the production meter where utility personnel will be able to isolate the production metering circuit.**

Special Notes:
- **All meters and switches are required to be grouped.**
- **Additional devices/meters may be required if ESS is used for emergency backup.**

1c. Netting Tariff < 25kW, DC-coupled ESS



Note 1 – PoC

- **All interconnection points are required to be placed behind the utility revenue meter**
- **>>> No connections are to be made within the utility revenue meter socket or in utility transformer compartment. <<<**

Note 2 – Utility Revenue Meter

- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the production meter and the utility disconnect switch.**
- **Existing 400A service metered with current transformers must be updated to a self-contained CL320 meter socket**

Note 3 – Utility Production Meter

- **Utility feed for the production meter, the socket is required to be wired top side utility, bottom side inverter.**

Note 4 – Utility AC Disconnect Switches

- **The utility disconnect switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access.**
- **The utility AC emergency disconnect switch is required to be located ahead of the production meter where utility personnel will be able to isolate the metering circuit.**

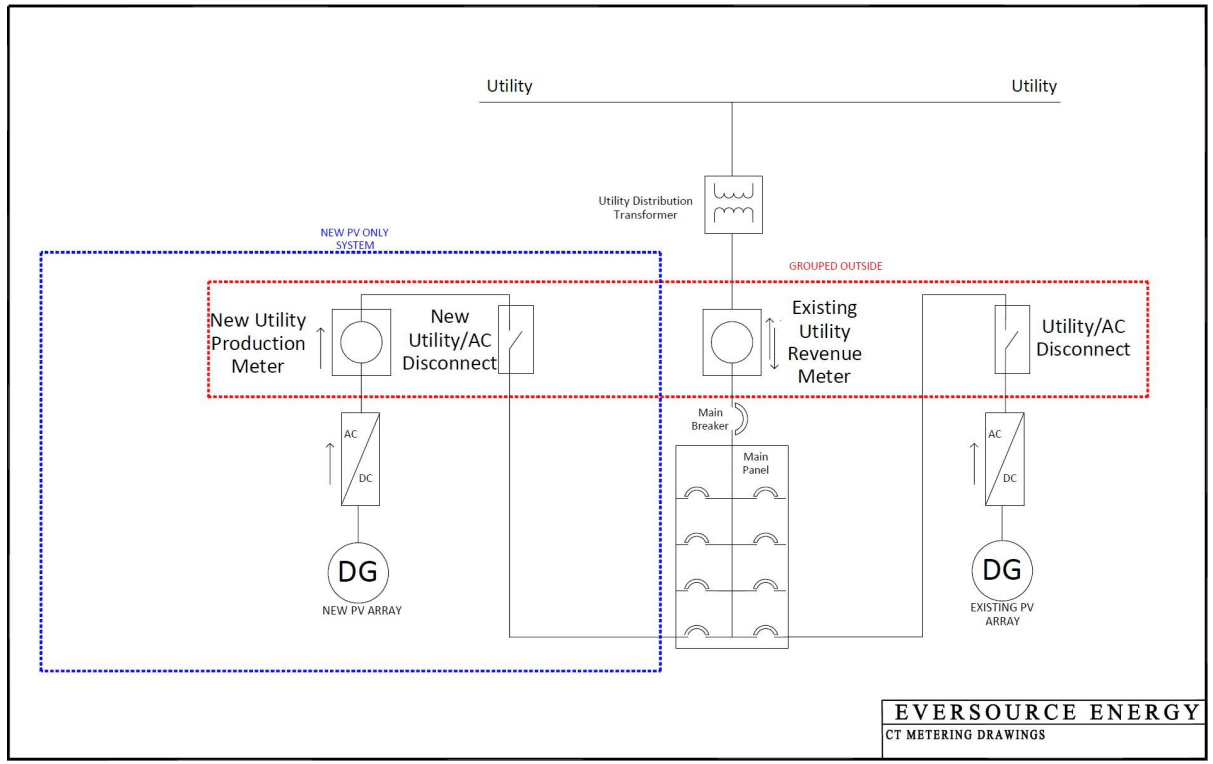
Note 5 – Inverter

Additional outputs of the inverter may require separate metering.

Special Notes:

- **All meters and switches are required to be grouped.**
- **If a back-up or critical load subpanel is to be installed behind the Utility production meter, it shall be equipped and configured so that it is normally energized by a separate connection to the main panel, thereby bypassing the production meter and inverter, and using an Automated Transfer Switch, normally disconnected to the solar array and/or battery. At times when the electric grid becomes deenergized (e.g., power outage), the switch would engage allowing the subpanel to be energized by the solar array and/or battery. Except for the parasitic load utilized to operate the coupled solar and storage system, there shall be no load connected behind the Utility production meter.**

1d. Netting Tariff < 25kW, Adding PV to existing PV



Note 1 – PoC
- **All interconnection points are required to be placed behind the utility revenue meter**
- **>>> No connections are to be made within the utility revenue meter socket or in utility transformer compartment. <<<**

Note 2 – Utility Revenue Meter
- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the production meter and the utility disconnect switch.**
- **Existing 400A service metered with current transformers must be updated to a self-contained CL320 meter socket**

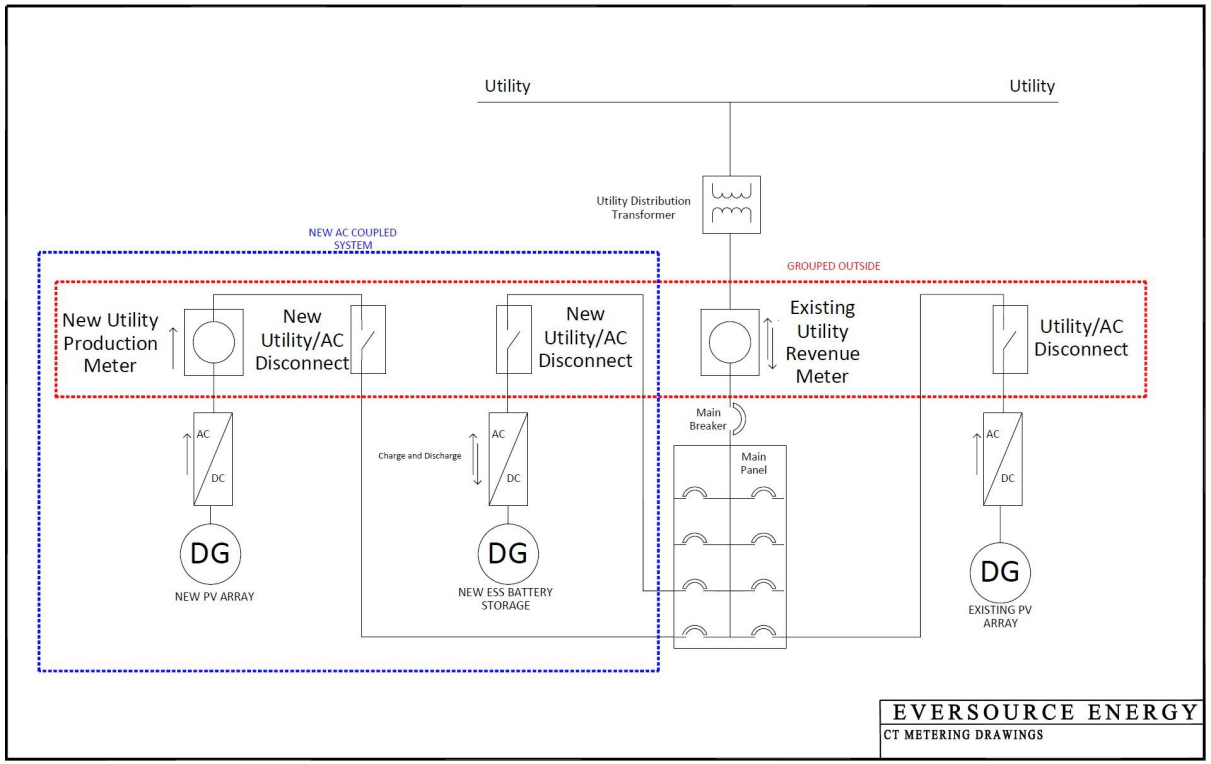
Note 3 – Utility Production Meter
- **Utility feed for the production meter, the socket is required to be wired top side utility, bottom side inverter.**

Note 4 – Utility AC Disconnect Switches
- **The utility disconnect switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access.**
- **The utility AC emergency disconnect switch is required to be located ahead of the production meter where utility personnel will be able to isolate the metering circuit.**

Note 5 – Inverter
Additional outputs of the inverter may require separate metering.

Special Notes:
- **All meters and switches are required to be grouped.**
- **Rate for existing utility revenue meter will transition from the legacy net metering rate to the new RRES netting rate.**

1e. Netting Tariff < 25kW, Adding AC coupled PV & ESS to existing PV



Note 1 – PoC
- **All interconnection points are required to be placed behind the utility revenue meter**
- **>>> No connections are to be made within the utility revenue meter socket or in utility transformer compartment. <<<**

Note 2 – Utility Revenue Meter
- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the production meter and the utility disconnect switch.**
- **Existing 400A service metered with current transformers must be updated to a self-contained CL320 meter socket**

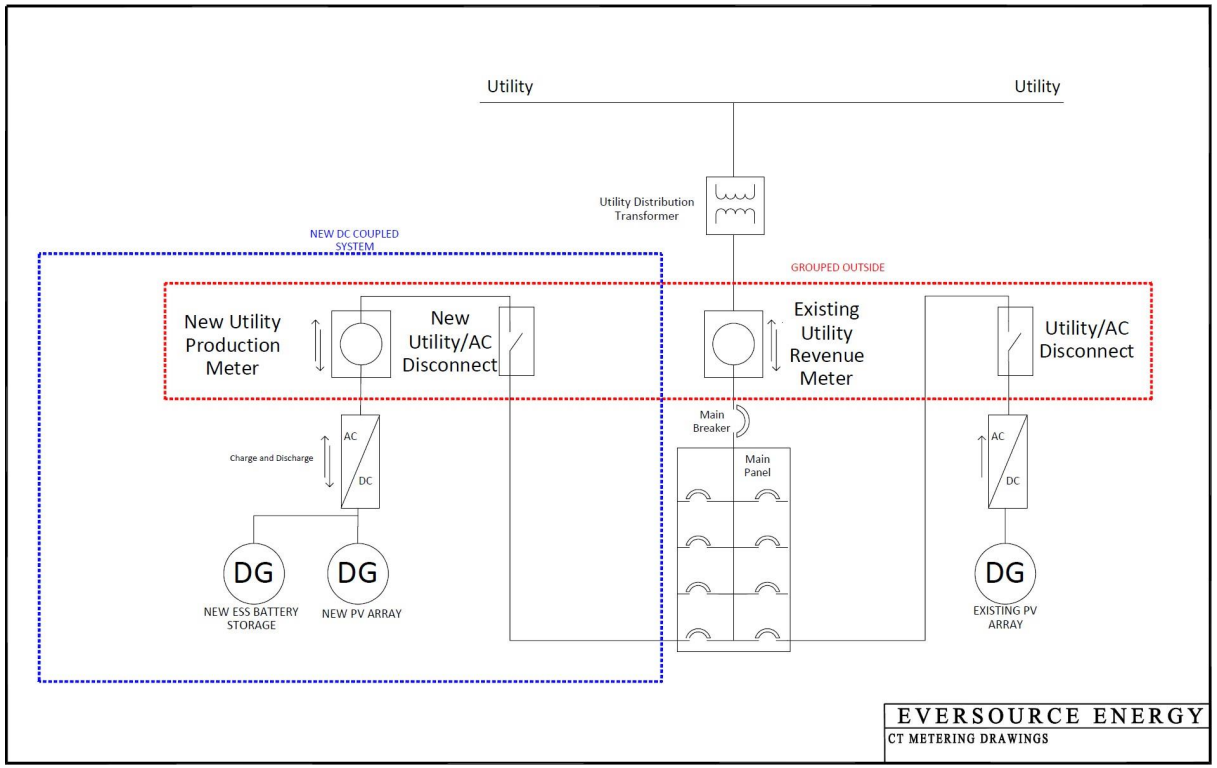
Note 3 – Utility Production Meter
- **Utility feed for the production meter, the socket is required to be wired top side utility, bottom side inverter.**

Note 4 – Utility AC Disconnect Switches
- **The utility disconnect switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access.**
- **The utility AC emergency disconnect switch is required to be located ahead of the production meter where utility personnel will be able to isolate the metering circuit.**

Note 5 – Inverter
Additional outputs of the inverter may require separate metering.

Special Notes:
- **All meters and switches are required to be grouped.**
- **Rate for existing utility revenue meter will transition from the legacy net metering rate to the new RRES netting rate.**

1f. Netting Tariff < 25kW, Adding DC Coupled PV+ESS to existing PV



Note 1 – PoC
- **All interconnection points are required to be placed behind the utility revenue meter**
- **>>> No connections are to be made within the utility revenue meter socket or in utility transformer compartment. <<<**

Note 2 – Utility Revenue Meter
- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the production meter and the utility disconnect switch.**
- **Existing 400A service metered with current transformers must be updated to a self-contained CL320 meter socket**

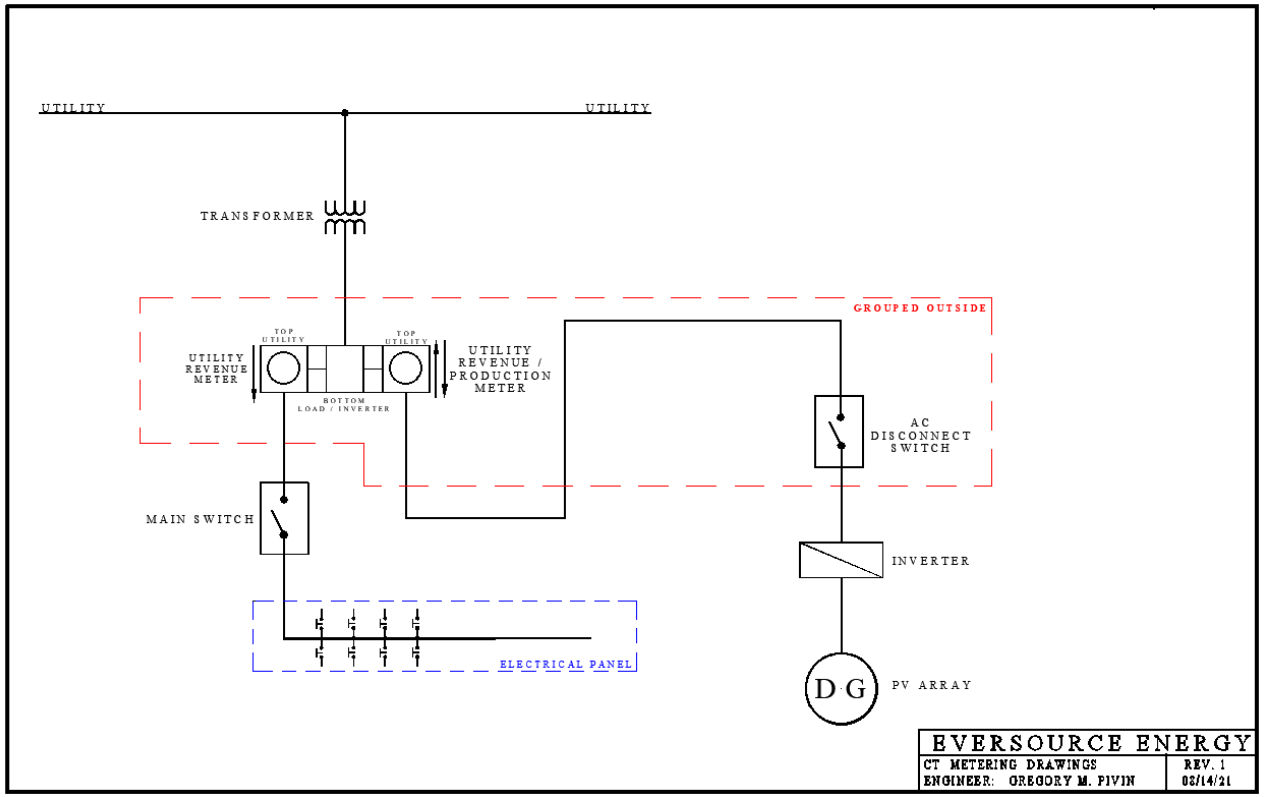
Note 3 – Utility Production Meter
- **Utility feed for the production meter, the socket is required to be wired top side utility, bottom side inverter.**

Note 4 – Utility AC Disconnect Switches
- **The utility disconnect switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access.**
- **The utility AC emergency disconnect switch is required to be located ahead of the production meter where utility personnel will be able to isolate the metering circuit.**

Note 5 – Inverter
Additional outputs of the inverter may require separate metering.

Special Notes:
- **All meters and switches are required to be grouped.**
- **Rate for existing utility revenue meter will transition from the legacy net metering rate to the new RRES netting rate.**

2a. Buy-All Tariff, no ESS



Note 1
- **Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)**

Note 2 – Utility Revenue Meter
- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.**

Note 3 – Utility AC Disconnect Switches
- **The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.**
- **The utility AC emergency disconnect switch is required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.**

Special Notes:
- **All meters and switches are required to be grouped.**

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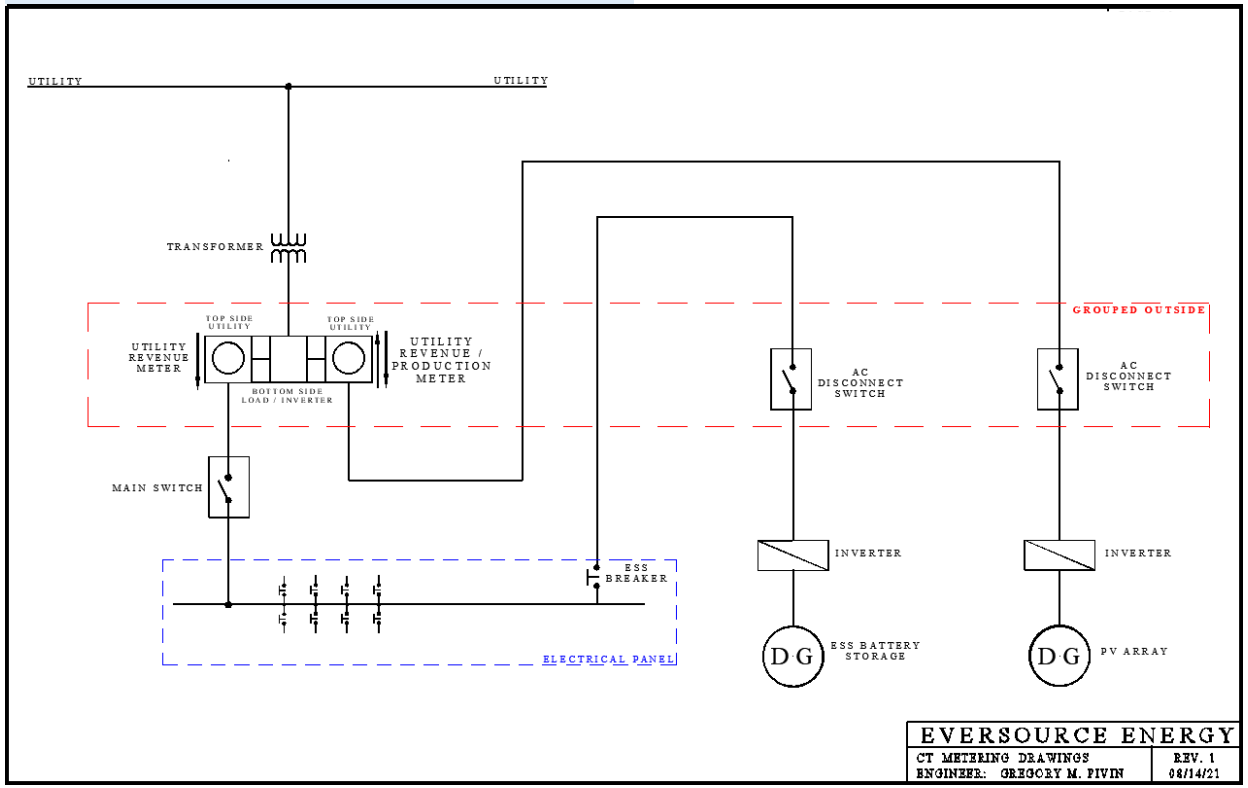
2b. Buy-All Tariff with ESS



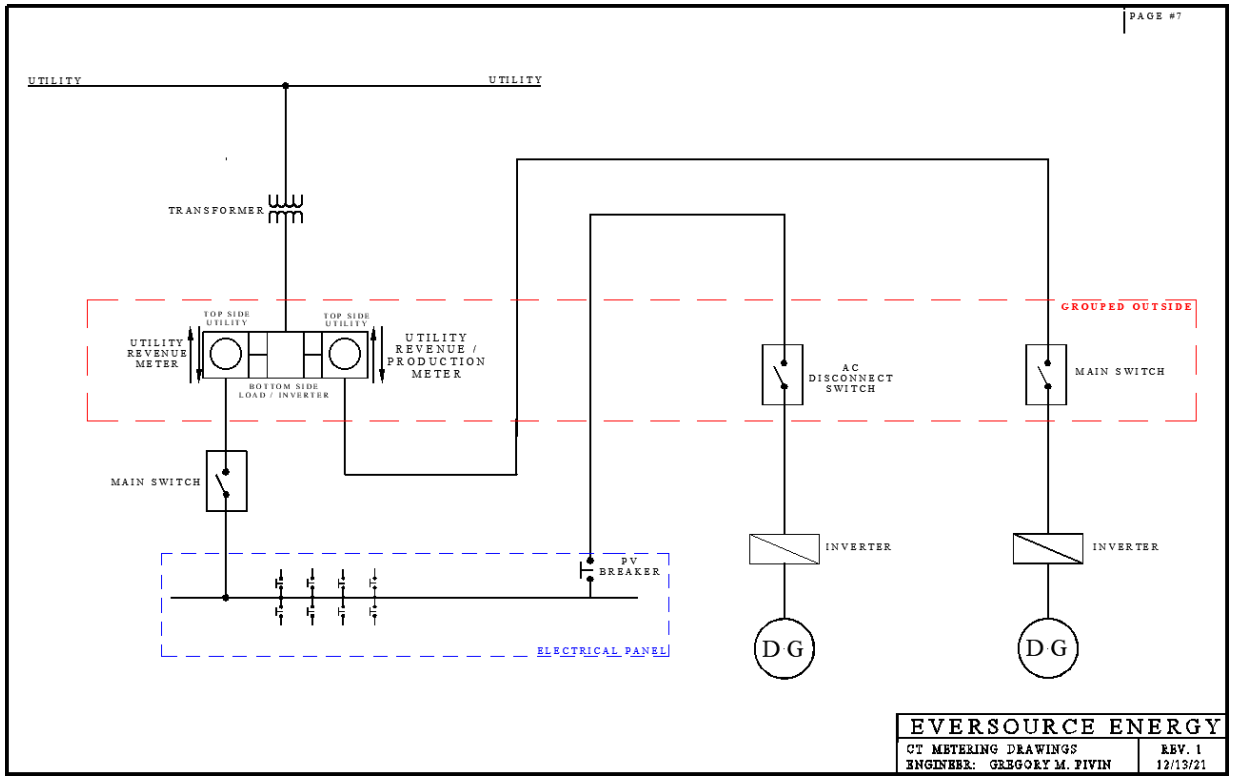
Note 1
- **Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)**

Note 2 – Utility Revenue Meter
- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.**

Note 3 – Utility AC Disconnect Switches
- **The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.**
- **The utility AC emergency disconnect switch is required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.**

Special Notes:
- **All meters and switches are required to be grouped.**
- **Additional devices/meters may be required if ESS is used for emergency backup.**

2c. Buy-All With Existing PV



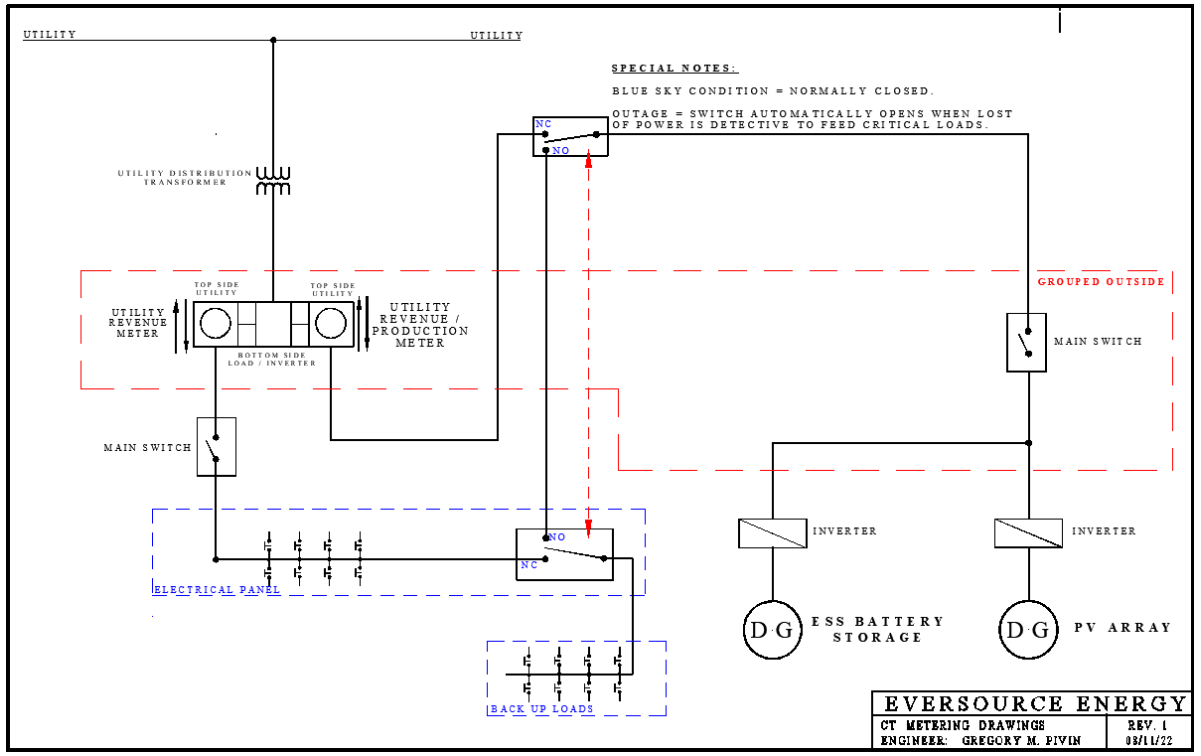
Note 1
- **Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)**

Note 2 – Utility Revenue Meter
- **If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.**

Note 3 – Utility AC Disconnect Switches
- **The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.**
- **The utility AC emergency disconnect switches are required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.**

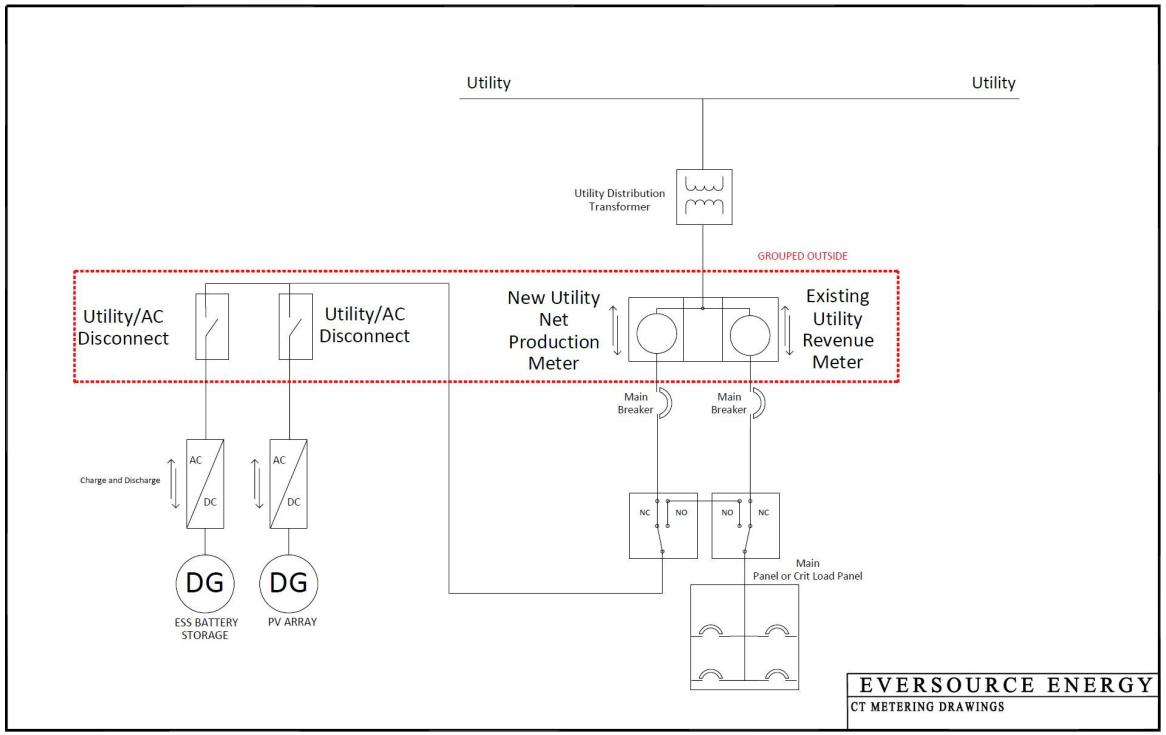
Special Notes:
- **All meters and switches are required to be grouped.**

2d. Buy-All Tariff with ESS (with critical loads)



- Note 1 - Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)
- Note 2 – Utility Revenue MeterIf the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.
- Note 3 – Utility AC Disconnect Switches
- The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.
- The utility AC emergency disconnect switches are required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.
- Special Notes:
- Changing the ESS Storage directly from the Grid is prohibited
- Additional devices / meters may be required if ESS is used for emergency backup.

2e. Buy-All Tariff – Single Family - AC coupled PV and ESS as backup

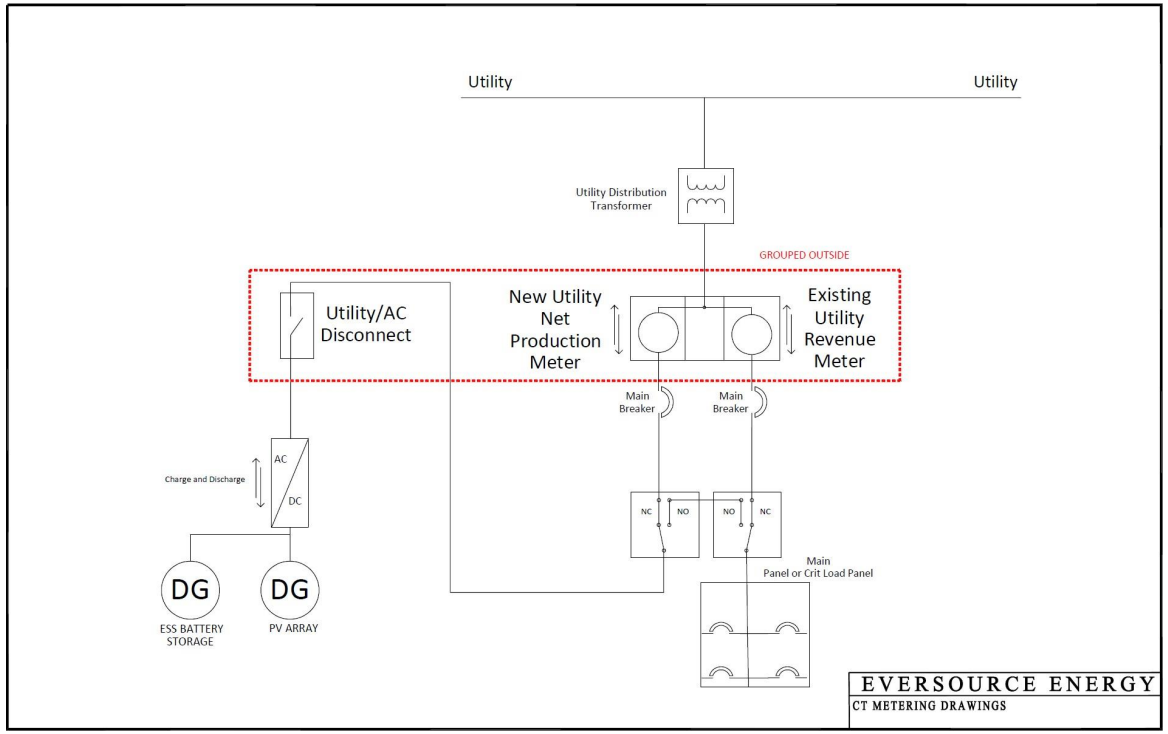


- Note 1 - Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)
- Note 2 –If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.
- The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.
- All Utility/AC emergency disconnect switches are required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.

Special Notes:

- Changing the ESS Storage directly from the Grid is prohibited
- Additional devices / meters may be required if ESS is used for emergency backup s.
- Pre-existing transfer switches used for a back-up home generator cannot be used as one of the 2 transfer switches
- Generation behind the buy-all meter must not back-feed through the existing utility revenue meter

2f. Buy-All Tariff – Single Family - DC coupled PV and ESS as backup

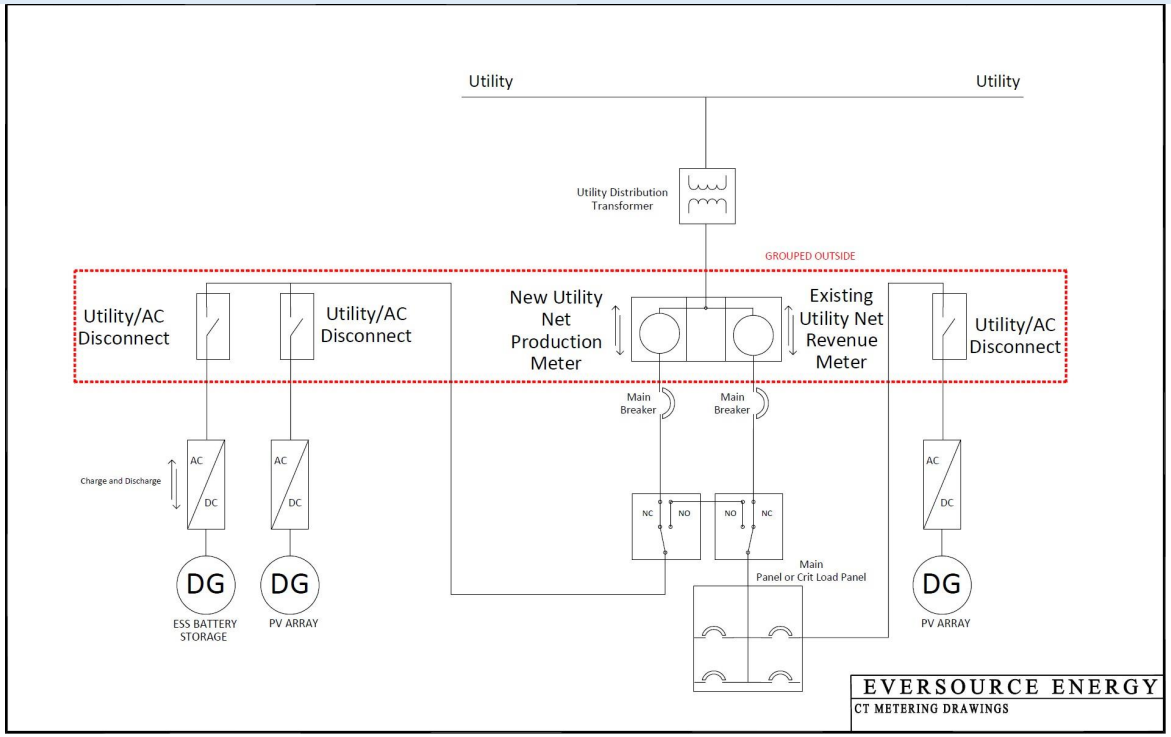


- Note 1 - Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)
- Note 2 –If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.
- The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.
- All Utility/AC emergency disconnect switches are required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.

Special Notes:

- Changing the ESS Storage directly from the Grid is prohibited
- Additional devices / meters may be required if ESS is used for emergency backup s.
- Pre-existing transfer switches used for a back-up home generator cannot be used as one of the 2 transfer switches
- Generation behind the buy-all meter must not back-feed through the existing utility revenue meter

2g. Buy-All Tariff – Single Family – Pre-existing solar w/AC coupled PV and ESS as backup

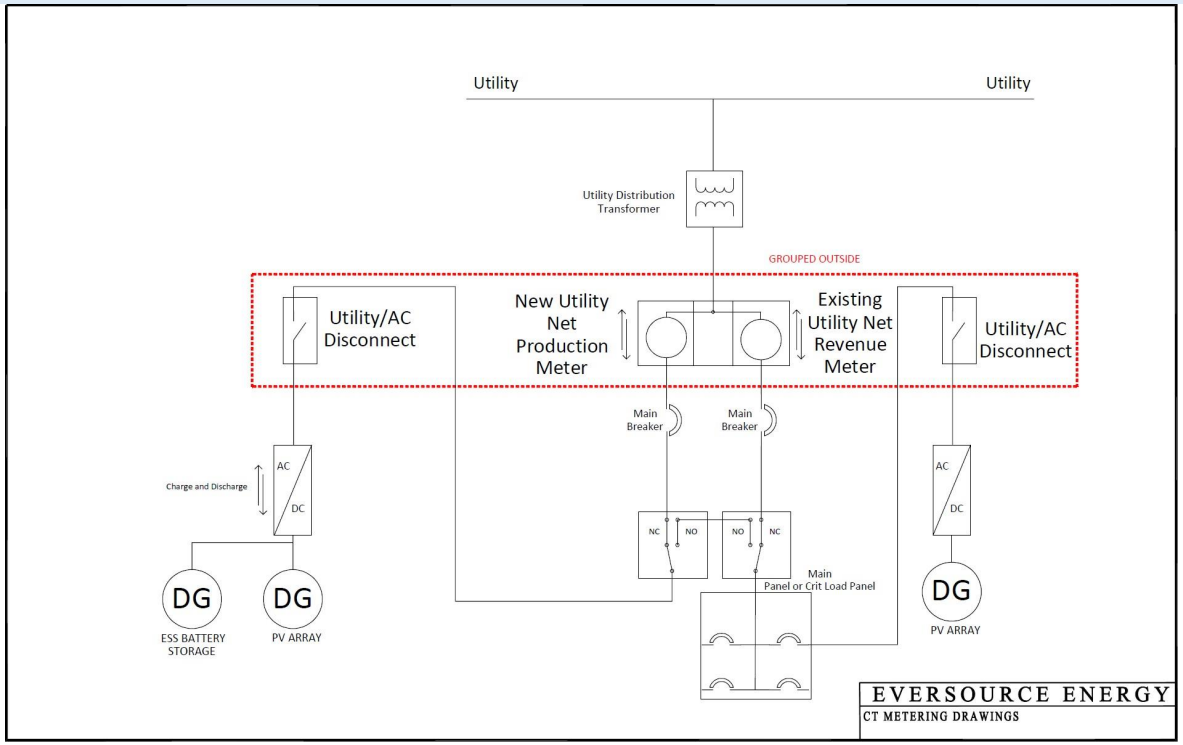


- Note 1 - Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)
- Note 2 –If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.
- The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.
- All Utility/AC emergency disconnect switches are required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.

Special Notes:

- Changing the ESS Storage directly from the Grid is prohibited
- Additional devices / meters may be required if ESS is used for emergency backup s.
- Pre-existing transfer switches used for a back-up home generator cannot be used as one of the 2 transfer switches
- Generation behind the buy-all meter must not back-feed through the existing utility revenue meter

2h. Buy-All Tariff – Single Family – Pre-existing solar w/DC coupled PV and ESS as backup

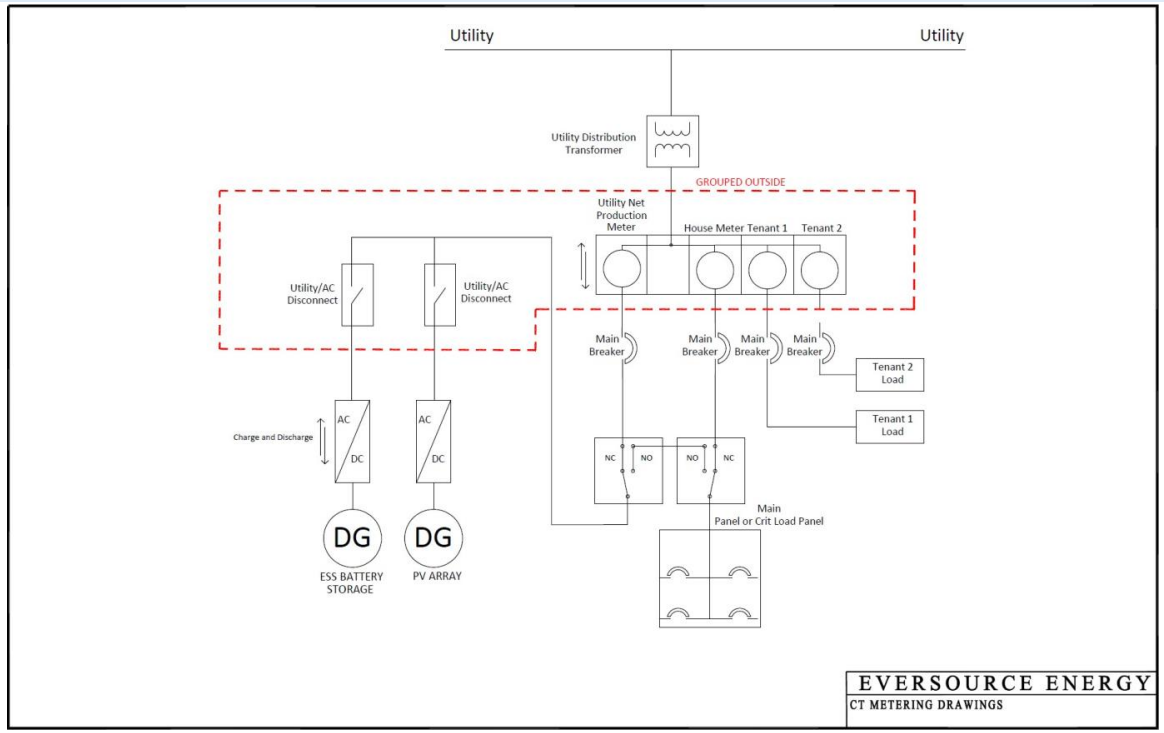


- Note 1 - Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)
- Note 2 –If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.
- The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.
- All Utility/AC emergency disconnect switches are required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.

Special Notes:

- Changing the ESS Storage directly from the Grid is prohibited
- Additional devices / meters may be required if ESS is used for emergency backup s.
- Pre-existing transfer switches used for a back-up home generator cannot be used as one of the 2 transfer switches
- Generation behind the buy-all meter must not back-feed through the existing utility revenue meter

2i. Buy-All Tariff – Multi-Family - AC coupled PV and ESS as backup for single unit only



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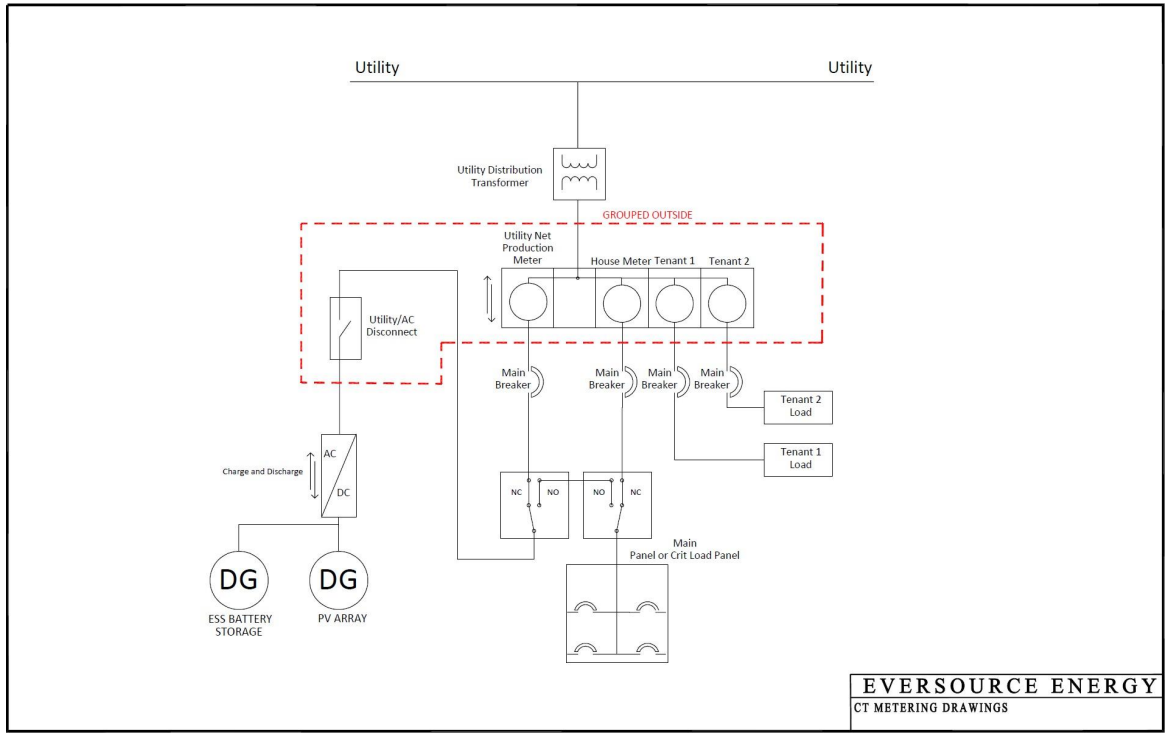
- Note 2 –If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.
- The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.
- All Utility/AC emergency disconnect switches are required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.

Special Notes:

- Changing the ESS Storage directly from the Grid is prohibited
- Additional devices / meters may be required if ESS is used for emergency backup s.
- Pre-existing transfer switches used for a back-up home generator cannot be used as one of the 2 transfer switches
- Generation behind the buy-all meter must not back-feed through the existing utility revenue meter

2j. Buy-All Tariff – Multi-Family - DC coupled PV and ESS as backup for single unit only



- Note 1 - Service increase may be required to accommodate the addition of the utility revenue/production meter (i.e., increase 100A service to 200A)
- Note 2 –If the utility revenue meter is located inside customer's residence, the interconnecting customer will be required to upgrade and have the meter relocated outside the customer's residence near both the new revenue/production meter and utility disconnect switch.
- The main switch is required to be located on the ground level within vicinity of the utility revenue meter where our utility personnel will have 24 / 7 access to it.
- All Utility/AC emergency disconnect switches are required to be located ahead of the inverter where utility personnel will be able to isolate the DG circuit.

Special Notes:

- Changing the ESS Storage directly from the Grid is prohibited
- Additional devices / meters may be required if ESS is used for emergency backup s.
- Pre-existing transfer switches used for a back-up home generator cannot be used as one of the 2 transfer switches
- Generation behind the buy-all meter must not back-feed through the existing utility revenue meter

REVISIONS

- June 13th, 2023 – added drawings 1d-f to show configuration on adding a new BTM system to an existing system per 22-08-02 Motion 16 Ruling
- June 13th, 2023 – added drawings 2e-j to show ESS back-up configurations in a Buy-all tariff for single and multi-family homes
- July 30th, 2024 – added note to upgrade existing 400A services metered with current transformers to a self-contained CL320 meter socket.