Frederick Douglass Solar Project - Options

Option 1: 28.2 KW PV feeding the 400 Amp service only (Panel PP)

- Single Meter Connection Cost: $112k for PV only
- Inverter is 30 KW Sol-Ark hybrid (works with or without batteries)
- Battery Options – up to 3 x 40 kWh increments (120 kWh max)
- 30 KW Inverter Sol-Ark is smallest size, so not cost effective to split system

Option 2: 28.2 KW PV system split between two meters

- Two Meter Connection Cost: $121k for PV only
- Use Hybrid Microinverters (also work with or without batteries)
- 4 panels per inverter, 16 total microinverters required
- 17.6 KW PV using 10 microinverters connected to the 400 Amp service (Panel PP)
- 10.6 KW PV using 6 microinverters connected to the 225 Amp service (Panel TP)
- AC Connection can be made directly to each service panel, allowing solar to operate while on generator.
- Battery Options: Up to 64 KWh max (one per solar panel)
- This Battery Option is 60% more expensive per kWh than the Option 1 battery.

- NOTE: If the goal is to avoid selling any energy back to the grid at the highly discounted rate, Option 2 achieves that goal by splitting the solar at an increased cost of $9 k, whereas Option one must use a battery to achieve that objective, which adds $48 k of additional cost.

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