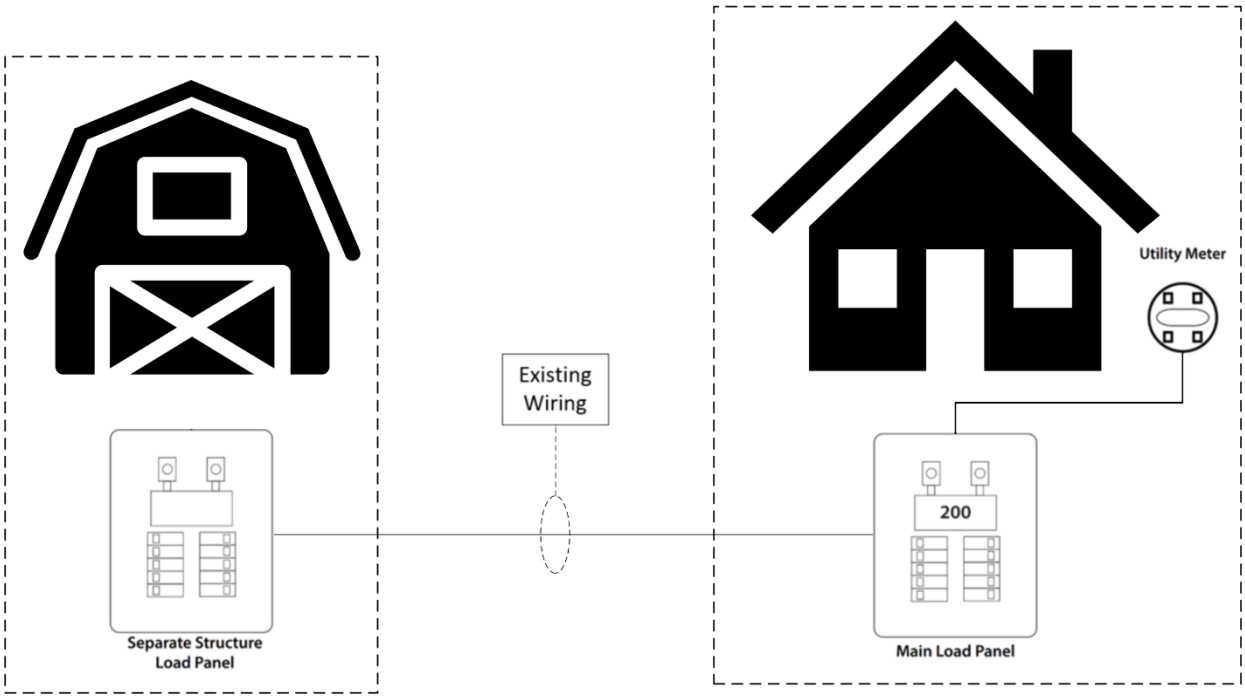
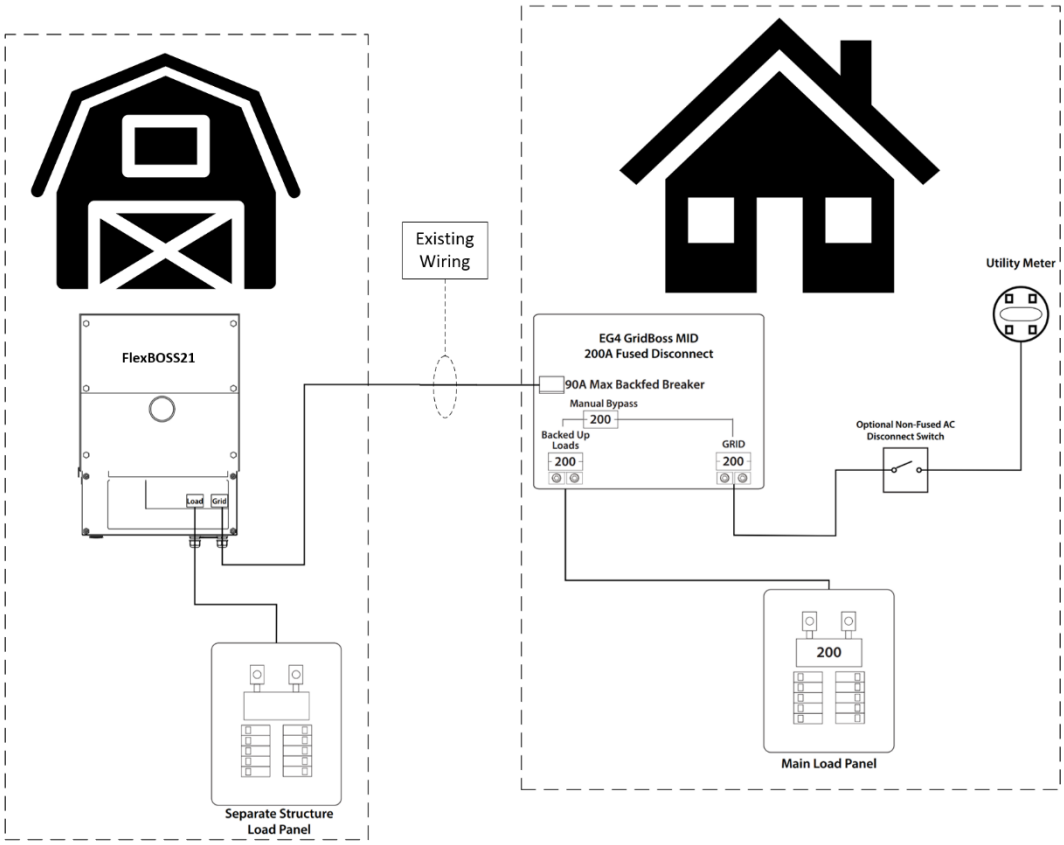
Utilizing the Load Ports on FlexBOSS when Coupled with GridBOSS

OVERVIEW:

In some installations, solar components such as inverters, batteries, and PV modules are mounted on a structure separate from the main utility meter and EG4® GridBOSS. These structures may already have load panels and wiring that connect to the utility meter or grid source. This document outlines the benefits of utilizing the FlexBOSS21 or FlexBOSS18 in these particular installations.

Rather than installing new wiring between the FlexBOSS and GridBOSS, the existing wiring can often be reused—if it is properly rated for the inverter's output and the GridBOSS's breaker specifications. This approach can significantly reduce labor and material costs.





KEY BENEFITS:

- **Cost Savings**: Reusing existing wiring avoids the expense of new conduit and cable runs. Especially over longer distances.
- **Simplified Installation**: Fewer materials and less labor make for a faster setup.

CONNECTION OVERVIEW:

- The existing load panel on the separate structure is wired to the **Load terminals** on the FlexBOSS.
- The existing wire between structures serves as the power connection to the GridBOSS Hybrid Terminals.

IMPORTANT CONSIDERATIONS:

- **Wire Sizing**: The existing wire must match the inverter's output and GridBOSS's breaker rating.
- **Safety Compliance**: Undersized or improperly rated wire must be replaced.
- **Monitoring:** Within this configuration, loads on the inverter and those on the GridBOSS will show as total loads rather than separate loads.

Models that Support this Configuration:

- FlexBOSS21 models with All Grey Chassis.
- All FlexBOSS18 models.

SUMMARY:

This configuration supports flexible system design and is especially useful in retrofit scenarios or installations with detached buildings. When done correctly, it offers a reliable and cost-effective solution for connecting FlexBOSS to GridBOSS.

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