**DNA Line Filter Connected in Isolation Mode**

*Single and Dual Phase Connections On Subpanel R1*

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**Noisy Load**
Example: Pool pump with noisy switching converter, variable speed pump, variable speed HVAC, car charging regulator, any device that is a load and makes dirty electricity, Single or Dual Phase.

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**DNA Line Filter Connected in Isolation Mode.**

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**Mains Circuit Breaker Panel**

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**Very, Very Important**
In this drawing, the designation "Sub" refers to the source of Dirty Electricity (DE). It may or may not be the source of 50/60 Hz power. **Examples Follow:**

- For an inverter for a solar or wind generation source, the Solar or Wind Inverter output connects to the "Sub" terminal of the DNA filter.
- For filtering all of the power from a power utility provider, the 50/60 Hz power source from the utility provider, connects to the "Sub" terminal of the DNA filter (**properly fused**).
- For DE-generating load, e.g. pool-pump, switching HVAC, etc, the 50/60 Hz power connects to the "Mains" terminals, and the DE-generating load connects to the "Sub" terminal of the DNA filter.