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Scheme for femtogrid DC power (residential)

HEMBUS is a home-energy management bus - a DC power scheme for handling batteries and solar along with AC power in homes -

https://patents.google.com/patent/EP2715904B1/en
https://patents.google.com/patent/US20120264316A1/en

http://HEMB.US
https://www.linkedin.com/in/kevcameron/

It is self-managing in that bus clients react automatically to the power level (indicated by the bus voltage), and provides fail-over power at individual wall-sockets rather than breaker-panel circuits. EVs are the intended source of storage for the system.

The scheme can be implemented at higher voltage, but the initial goal is ~ 200Vdc, which is compatible with a lot of domestic electronics.