

Power demand

kW

24

22

20

18

16

14

12

10

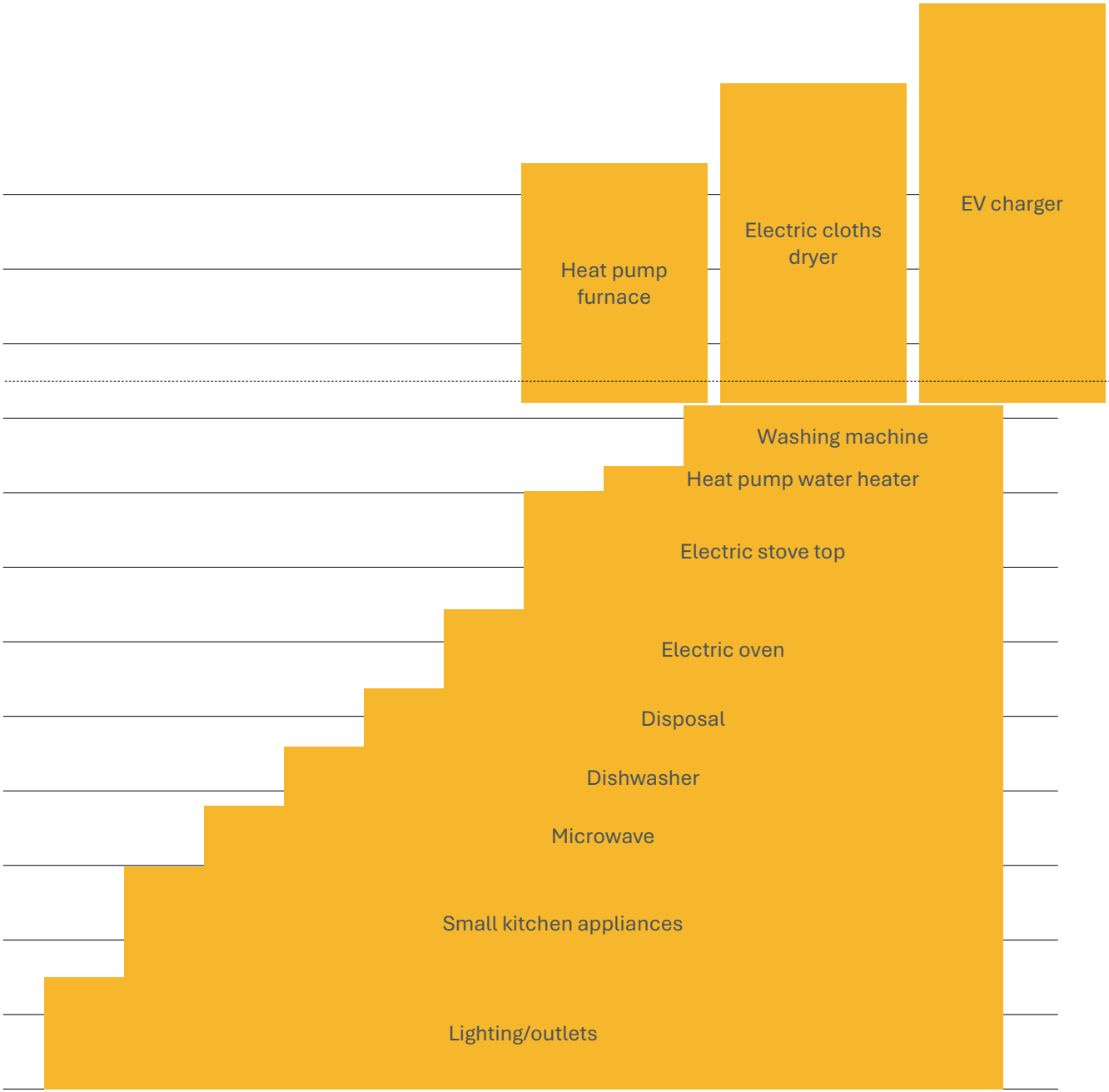
8

6

4

2

0



These items usually trigger a service panel upgrade to 200A.

Safe max. power 19.2 kW for 100A service panels





Service panels limit the power that can flow through a set of wires.

The wires between our homes and the utility company are rated for either 100A or 200A.

There is a breaker in the service panel that will turn off the power if energy flow exceeds its rating.



100A
24 kW
Service wires under the driveway

Service panels upgrades cost around \$3,500 to \$6,000.

Except when the service wires are below ground, then the cost can be over \$15,000.

In these cases, “smart controls” might be a good solution.



Simple Switch



Leviton 24 kW smart panel



Enphase IQ EV Charger 2

“Smart controls” turn off select devices in the event the home is approaching 19 kW.

When the home’s power usage goes down, the smart control automatically turns the devices back on.

Some smart controls include:

- Simple Switch
- Wall Box
- Leviton Smart Panel
- Span Smart Panel
- Enphase EV Charger 2