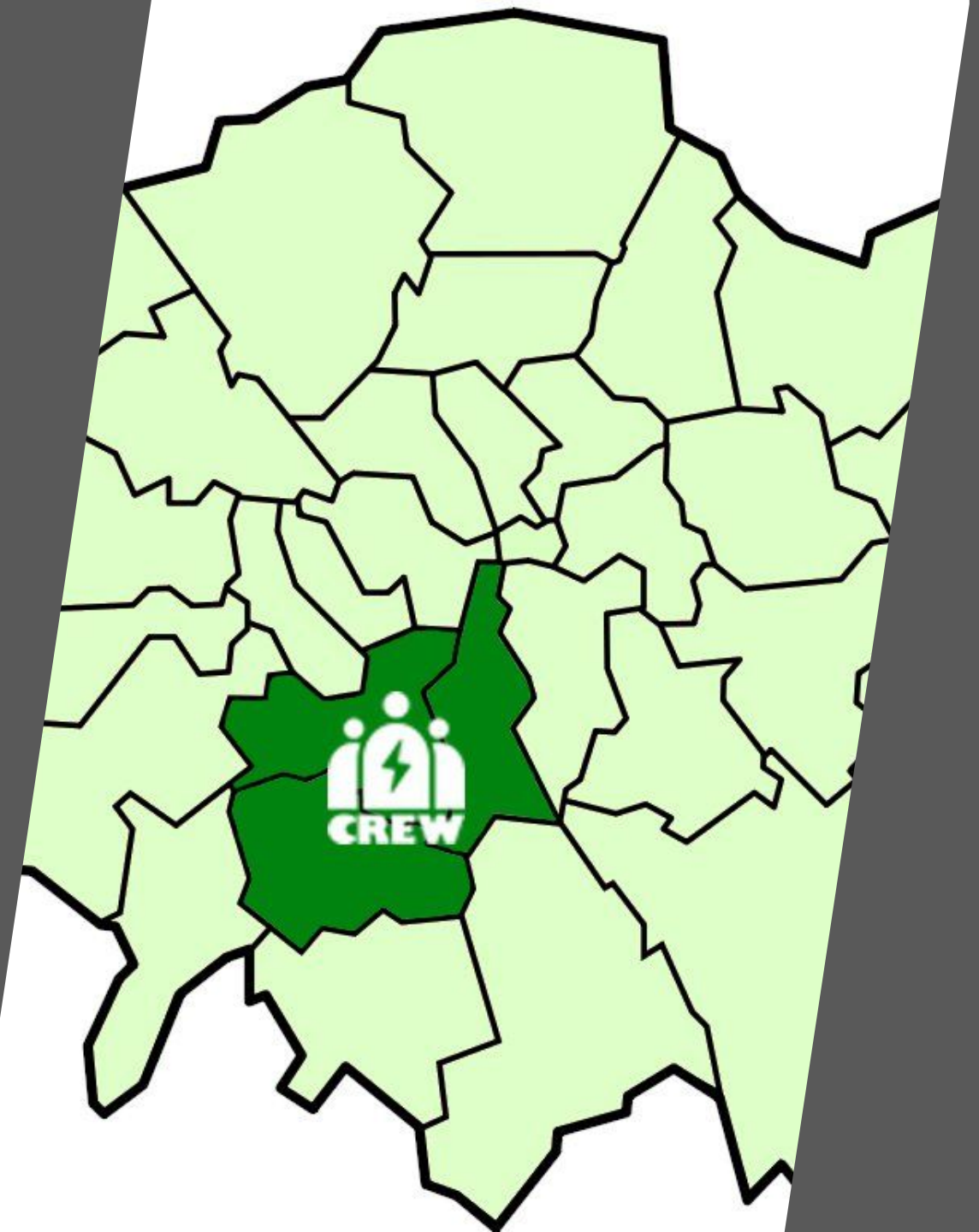
CREW's community model



- CREW is a SW London Community benefit society that started trading in 2017
- Our purposes are to help Londoners transition to a low carbon economy and to help eradicate fuel poverty in the capital.
- We offer scoping, fund-raising and project management support
- Our energy advice service has help 1500 people in the last year and we have delivered 250 home visits and 150 additional interventions.

Typical church set up

- Big south facing roof is a huge asset ideal for solar panels
- Buildings are high ceilinged and draughty
- Multiple spaces used for different purposes on different days.
- Access to lighting is challenging
- Listing and faculty can make progress slow.
- Lack of expertise in the Warden team

Solar PV

- Roofs tend to be South facing and not overshadowed.
- Approval needs to be obtained from the Faculty and the Council (for listed buildings)
- Costs are higher than other installs due to roof height.
- Power / demand disconnect
- Solutions: Energy Local, Power Banks, switch to electric heating, EV charging & battery storage

Draughts and high ceilings

- Ill fitting doors need to be upgraded with new brush strips and door brushes
- Install looped curtains or second doors
- Glazing specialists like Selectaglaze now offer tailored secondary glazing.
- Destraifiers from companies like Airius can recycle warm air back down to the congregation.
- Insulation is often harder to install due to cost, scale and accessibility.

Heating

- Introduction of smart heating controls will cut demand for the following reasons:
  - Weather compensation
  - Zoning
  - Different temps in different zones.
- Gas boilers are due to be phased out from 2030
- Heat pumps run at a lower flow temperature so upgrades required
- Carbon fibre would heat people not the space so reducing run times
- Hydromx is heat transfer solution that can reduce heat times and cut bills by 25%

Lighting

- LEDs use 60-90% less energy than traditional fluorescent and halogen lighting.
- LEDs will last 30 000 to 50 000 hours compared to 1 000 to 5 000 for traditional lighting
- Installing LEDs would allow of addition of sensors
  - Ambient reacts to natural light levels
  - PIR senses body heat to activate.

Contacts

toby@crewenergy.london

www.crewenergy.london

@crewenergy.ldn