

Frimley Parish Energy Project 24 with Listed Building Consent

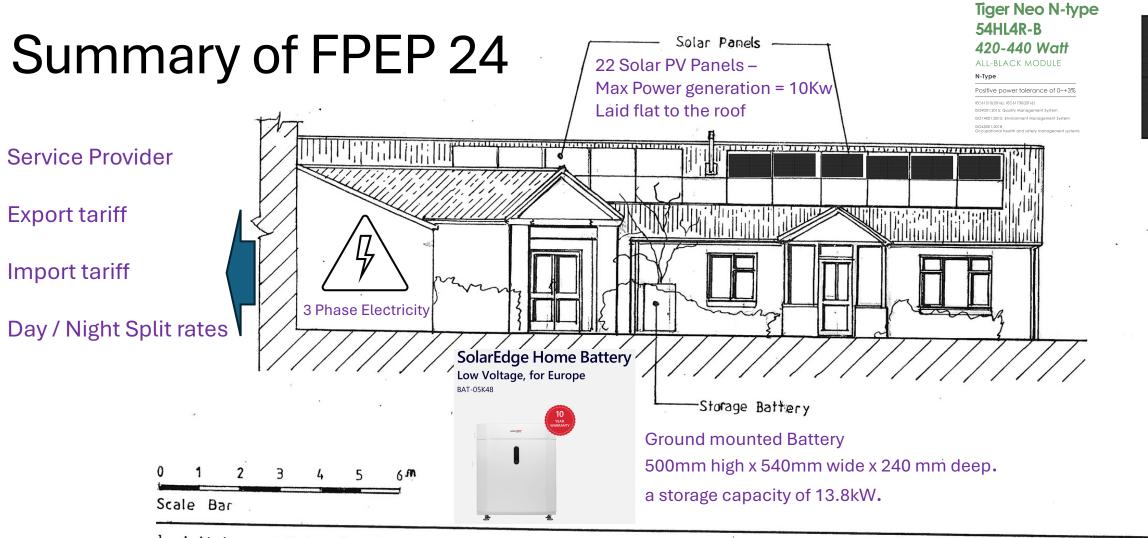
A Strategy for Net Zero



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Strategy

- Way of life
 - Big Parish boundary rural / urban split. Socio-economic mix.
 - Church Halls are first stage. Progressive upgrades to replace fossil fuels.
 - Two churches. Use experience of Church Halls to implement NetZero.
- Community
 - Church Halls are a hub; art and drama, physical exercise and well being, community events, private hire. Other denomination worship.
 - First year data collection and optimising the energy system for cost and self-sufficiency.
- Future proof
 - Building has a lifespan that permits upgrade and development.
 - Potential for expansion in utilisation of accommodation and car park.



Installation of Solar Panels on Roof with Associated Storage Battery St Peters, Frimley, Parish Hall and Bungalow Frimley Green Road, Frimley.

South-East Front Elevation

Scale : 1/100

November 2024

Plan

- Based on data
- Pilot project to establish evidence
- Staged (10 years)
 - Stage 1. FPEP 24 (Pilot Project).
 - Stage 2. Additional SPs in Church Halls and Air Source Heat Pump. ALL ELECTRIC in Halls.
 - Stage 3. St Peter's Church roof SPs and Air Source Heat Pump.
 - Stage 4. St Francis SPs and Air Source Heat Pump.
- Incorporate change
 - Technology improvements? (Fuel Cells, Ground SHP)
- Communicate the plan
 - Congregation and community support

| | | Dec-16 to Nov-17 | Dec-17 to Nov-18 | Dec-18 to Nov-19 | Avg / yr | Annual usage from Sustainability Report |
|------------------|-----|---------------------|---------------------|---------------------|----------|--|
| St Peter's Churc | h | | | | | |
| Gas Usage | kWh | 53865 | 54422 | 45875 | 54144 | 49647 |
| Electricity | | | | | | |
| Day | kWh | 4184 | 4862 | 4819 | 4622 | |
| Night | kWh | 1311 | 1186 | 1412 | 1303 | |
| Eve/Weekend | kWh | 7283 | 7263 | 8258 | 7601 | |
| Elec Total | | 12778 | 13311 | 14489 | 13526 | 14232 |
| St Peter's Hall | | | | | | |
| Gas Usage | kWh | 69829 | 60984 | 66827 | 65880 | 61210 |
| Electricity | | | | | | |
| Day | kWh | 7231 | 5242 | 6485 | 6319 | |
| Night | kWh | 6517 | 5291 | 5946 | 5918 | |
| Elec Total | | 13748 | 10533 | 12431 | 12237 | 11594 |
| St Francis | | | | | | |
| Gas Usage | kWh | 35140 | 45569 | 42060 | 43815 | 43254 |
| Electricity | kWh | 7192 | 5915 | 4242 | 5783 | 5620 |

Annual maga

Cultural Change

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- Demonstrate intent by understanding and controlling energy usage
- Engage with experts, contractors, planning department
- Understand service provider opportunities