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Data sources for the article *What can the Living Lab tell us about home energy technology adoption?*

Contact: Claire Rowland, Senior Manager for Living Lab at Energy Systems Catapult

Summary

These are the collated data sources for the *article What can the Living Lab tell us about home energy technology adoption?* Read the related article here: https://es.catapult.org.uk/insight/what-can-the-living-lab-tell-us-about-home-energy-technology-adoption

Data sources

Living Lab data: Energy Systems Catapult Living Lab, November 2025 (n=5,524 homes)

UK national statistics:

• English Housing Survey 2023-24: Low Carbon Technologies Fact Sheet

• MCS Data Dashboard: mcscertified.com/mcs-data

• GOV.UK: Solar PV Deployment Statistics

• GOV.UK: Heat Pump Deployment Statistics

• GOV.UK: Electric Vehicle Charging Statistics

• ZapMap: EV Market Statistics

Methodology for 'years ahead' estimates:

Note: These projections assume constant growth rates, which is unlikely in practice. Growth may accelerate (due to policy, falling costs) or decelerate (market saturation, grid constraints). The estimates should be treated as indicative rather than precise forecasts.

We calculated compound annual growth rates (CAGR) for each technology by dividing annual installations by the existing installed base. 'Years ahead' uses the formula: Years = ln(Lab% / UK%) / ln(1 + growth rate).

Solar PV: Base of ~1.5M homes (English Housing Survey 2023-24 reports 6% of dwellings). Annual installations ~180,000 (GOV.UK Solar PV Deployment Statistics). Growth rate: 180,000 / 1,500,000 = 12%. Years ahead: ln(21.8% / 6%) / ln(1.12) = 11.4 years.

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Heat pumps: Base of ~276,000 homes (English Housing Survey 2023-24 reports 1% of dwellings). Annual installations ~60,000 in 2024 (GOV.UK Heat Pump Deployment Statistics, MCS Data Dashboard). Growth rate: 60,000 / 276,000 = 22%. Years ahead: ln(12% / 1%) / ln(1.22) = 12.5 years.

Batteries: Base of ~40,000 cumulative MCS-certified installations (MCS Data Dashboard). Annual installations ~22,400 in 2024-25 (MCS Data Dashboard). Growth rate: 22,400 / 40,000 = 56%, though base uncertainty is high. Using a conservative 35% growth rate: ln(16.2% / 0.15%) / ln(1.35) = 15.6 years. Using 56%: ln(16.2% / 0.15%) / ln(1.56) = 10.5 years. We report 12-13 years as a mid-range estimate.

EVs + home chargers: Base of ~930,000 homes with exclusive-use charger (English Housing Survey 2023-24). BEV parc grew 39% in 2024 (ZapMap, SMMT); domestic charger installations grew 38% (GOV.UK EV Charging Statistics). Using 38% growth rate: ln(23.5% / 3%) / ln(1.38) = 6.4 years. However, charger growth may slow as the market matures, so we report 8-9 years as a more conservative estimate.

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