

Peak	£213.28
Off Peak	£116.10
Solar	£0.00

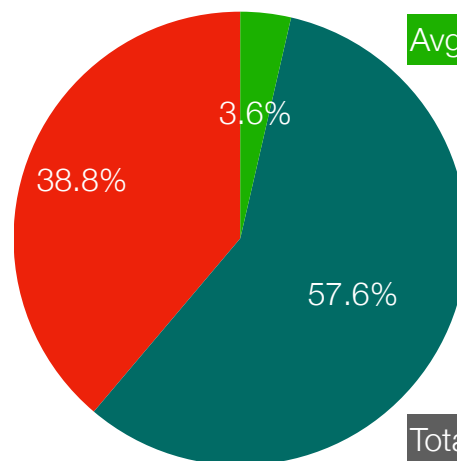
Total Energy Cost £329.38

Standing Charge £7.50

Total Electric Bill £336.88

Avg Cost per kWh 9.1873p

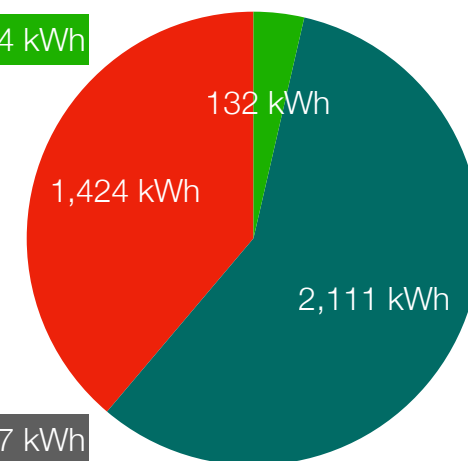
Avg Cost per Day £11.23



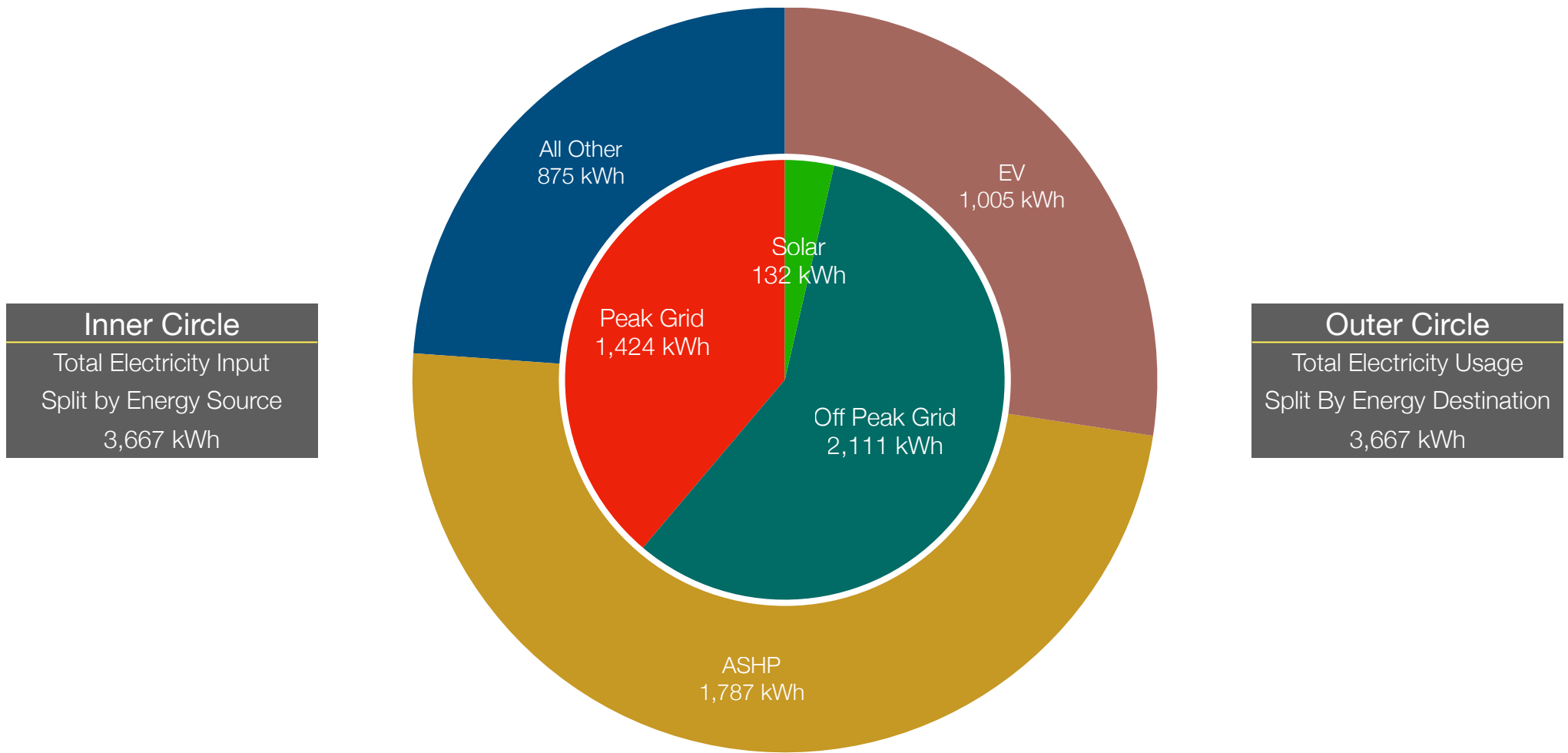
Avg solar per day 4 kWh

- Solar
- Off Peak Grid
- Peak Grid

Total: Solar + Grid 3,667 kWh

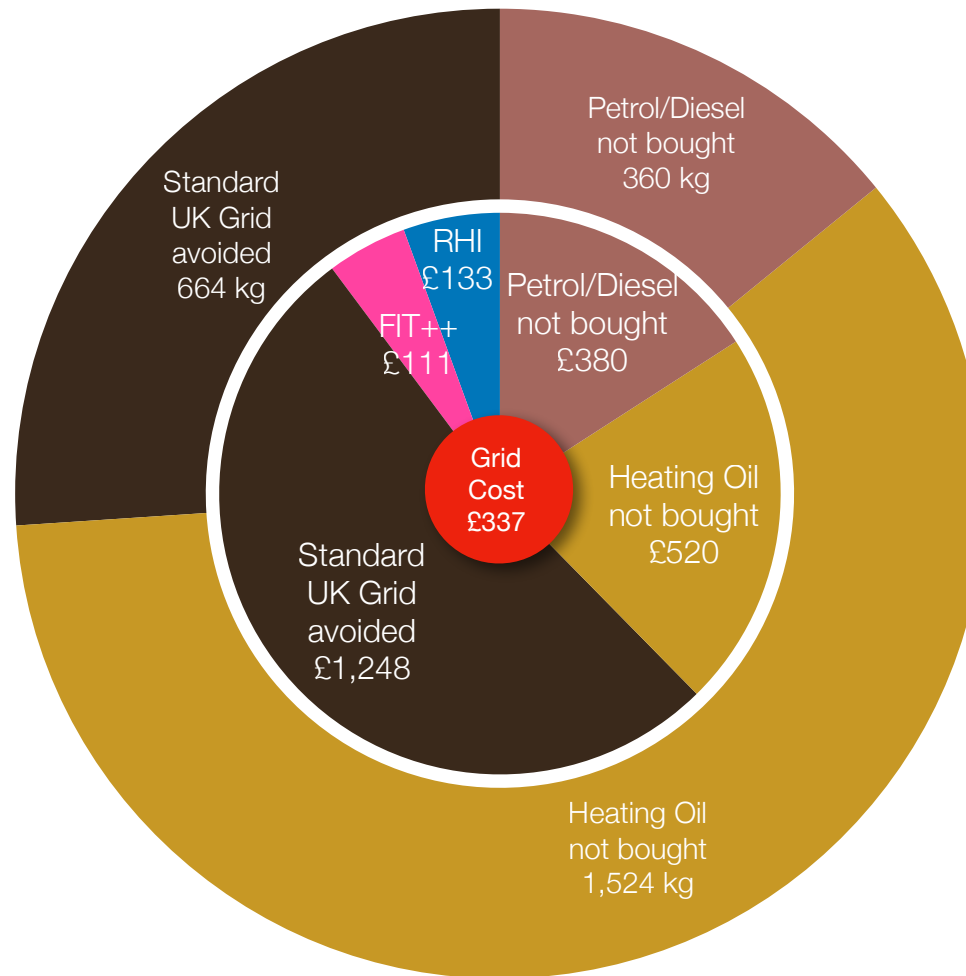


Energy Sources and Energy Destinations : Overview



CO₂ Emissions Reductions and Cash Savings/Incentives

Inner Circle
Cash Savings & Incentives Split by Source of Benefit
£2,391.89



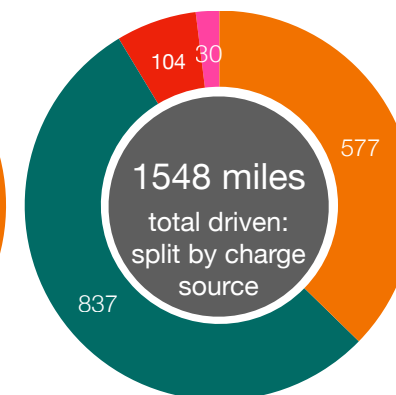
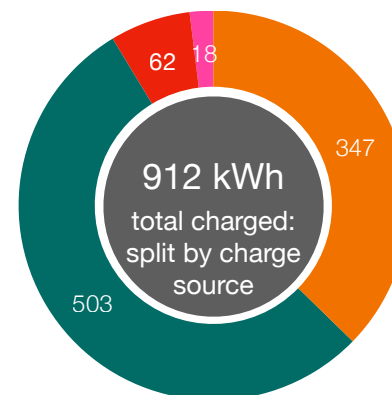
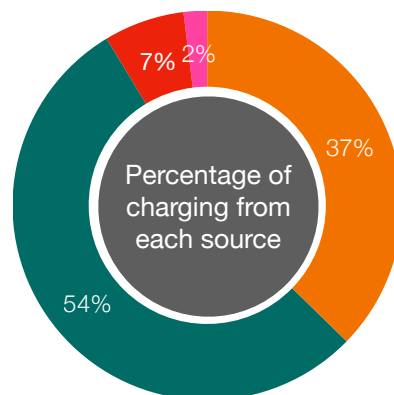
Outer Circle
Total CO ₂ Reductions Split by Energy Use
2,548 tonnes

Net Financial Benefit Definition		Net Financial Benefit Result	
Total	Middle Circle Benefits	Whole Month	£2,055.01
Minus	Grid Cost Bullseye	Per Day	£68.50

EV cost & carbon savings

Tesla Model X: mileage, cost & carbon summary

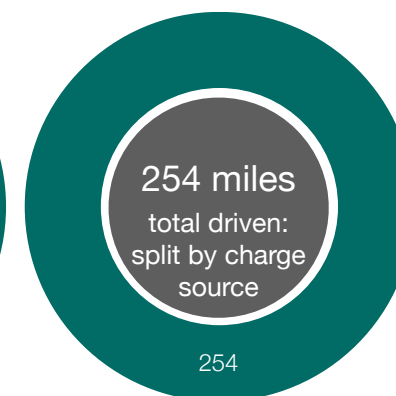
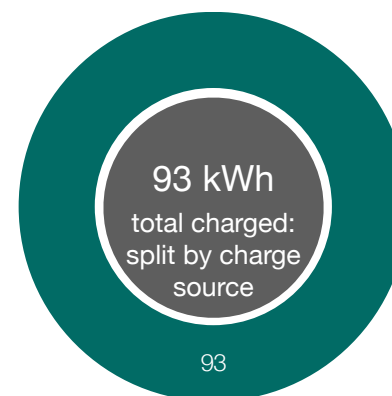
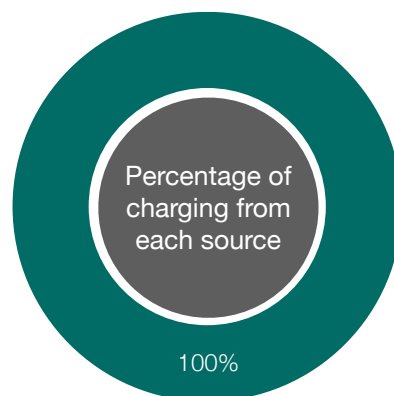
Miles driven in this month	1,548.0
Total cost, using charging mix shown	£36.99
Electricity charging cost, pence per mile	2.3896p
Cost saved vs 35mpg car @ £1.68/litre	£300.15
CO2 saved vs UK ICE avg @ 124.1g/km	309 kg



Free Solar At Home Free Tesla Supercharging Off-Peak Grid At Home Peak Grid At Home Paid Public Charging

Nissan Leaf: mileage, cost & carbon summary

Miles driven in this month	254.0
Total cost, using charging mix shown	£5.09
Electricity charging cost, pence per mile	2.004p
Cost saved vs 45mpg car @ £1.68/litre	£37.94
CO2 saved vs UK ICE avg @ 124.1g/km	51 kg

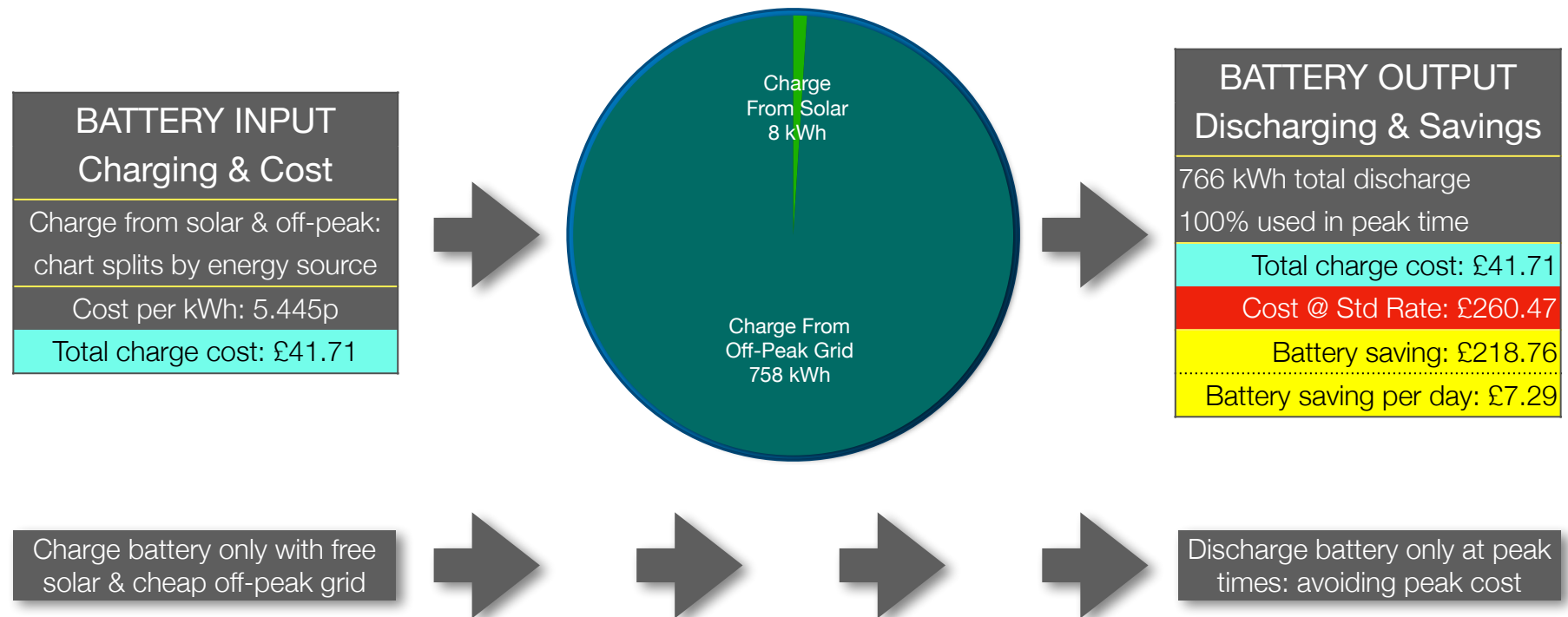


Free Solar At Home Free Public Charging Off-Peak Grid At Home Peak Grid At Home Paid Public Charging

Both cars: total mileage, cost & carbon

Miles driven in this month	1,802.0
Total cost, using charging mix shown	£42.08
Fuel cost, pence per mile	2.3352p
Cost saved vs ICE cars @ £1.68/litre	£338.08
CO2 saved vs ICE, total for both cars	360 kg

Savings from battery by time-shifting consumption



ASHP cost & carbon savings

Air Source Heat Pump

kWh electricity input in month	1,787 kWh
kWh heat output in month	5,046 kWh
COP efficiency (heat ÷ electricity)	2.82
Average electricity cost per kWh, pence	9.1873p
Total ASHP electricity cost in month	£164.18
Heating oil for same output @ 9.8 kWh/l	515 litres
Cost of heating oil @ £1.01/litre	£520.05

Cost saved ASHP vs oil boiler	£355.87
CO2 saved vs oil boiler @ 2.96 kg/litre	1,524 kg

Whole system cost & carbon savings

Smart energy savings

kWh electricity consumed in month	3,666.81
kWh generated by on-site solar	132.10
kWh imported from grid	3,534.71
Total grid electricity cost	£329.38

Electricity @ price cap rate: 27.25p/kWh	£999.21
CO2: electricity @ UK grid avg: 181g/kWh	664 kg

Cost saved vs standard rate electricity	£669.83
CO2 saved by 100% renewable electricity	664 kg

Summary overview savings, incentives, and carbon reduction in month

Total energy cost in month for all uses, including electricity standing charge	£336.88
Cost Avoided: standard rate electricity not purchased	£1,247.70
Cost Avoided: boiler heating oil for same heat output not purchased	£520.05
Cost Avoided: petrol/diesel for same mileage in ICE cars not purchased	£380.17
Total energy cost savings	£2,147.91
Incentive: Feed In Tariff for Solar Generation (+£2.19/day HMG subsidy + DFS: 01/10 – 31/12/2022)	£110.78
Incentive: Renewable Heat Initiative for Air Source Heat Pump	£133.20
Total incentives	£243.98
Combined Savings and Incentives	£2,391.89
MINUS total energy cost in month for all uses, including electricity standing charge	-£336.88
Overall net benefit = {(Combined Savings + Incentives) – (Energy Cost)}	£2,055.01
Total CO2 saved: {(100% renewable electricity vs UK grid avg) + (EVs vs ICE) + (ASHP vs oil boiler)}	2.548 tonnes