

Peak	£63.07
Off Peak	£96.31
Solar	£0.00

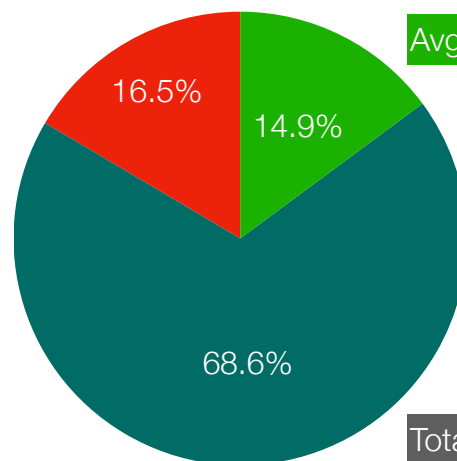
Total Energy Cost £159.38

Standing Charge £7.75

Total Electric Bill £167.13

Avg Cost per kWh 6.5507p

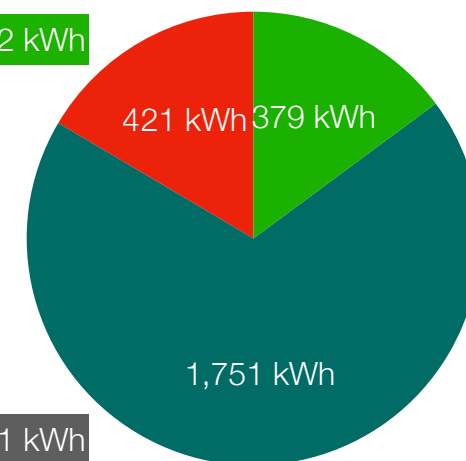
Avg Cost per Day £5.39



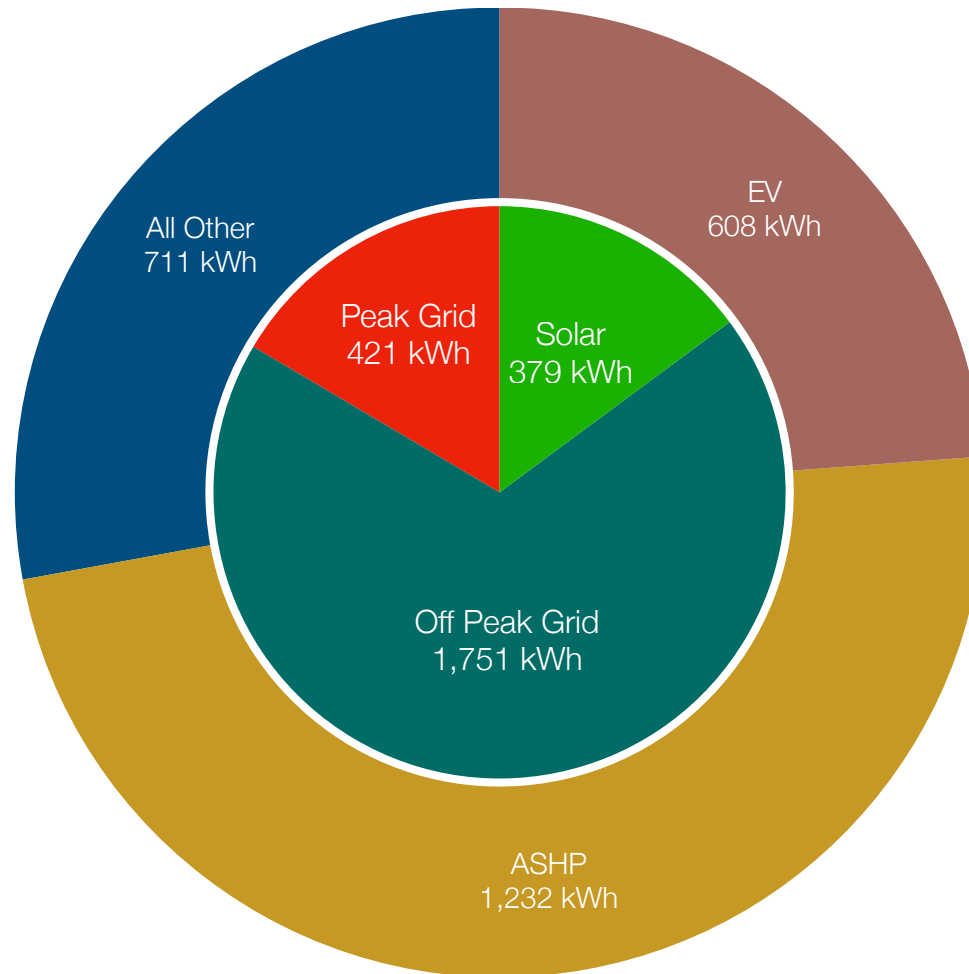
Avg solar per day 12 kWh

● Solar
● Off Peak Grid
● Peak Grid

Total: Solar + Grid 2,551 kWh



Energy Sources and Energy Destinations : Overview



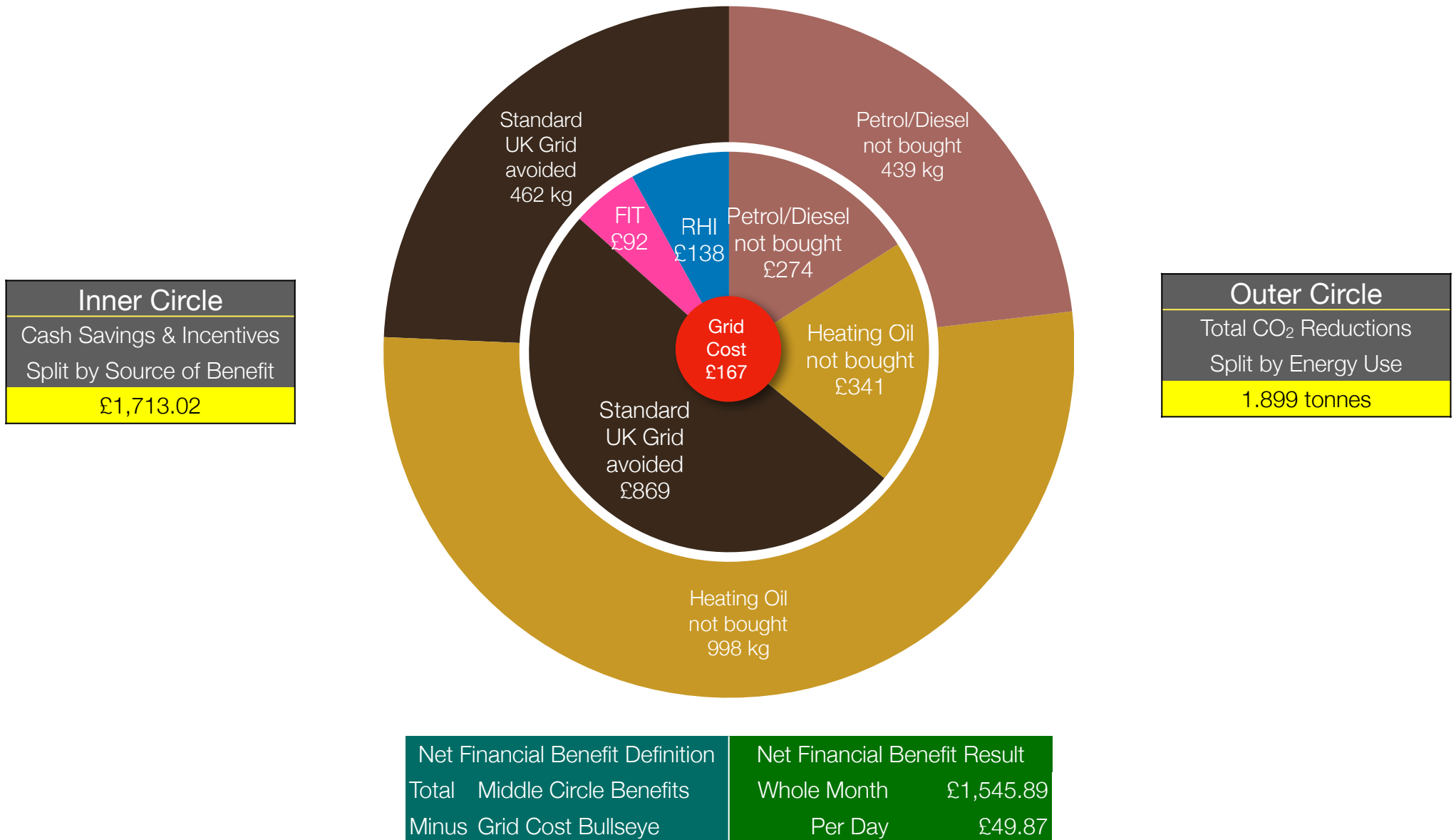
Inner Circle

Total Electricity Input
Split by Energy Source
2,551 kWh

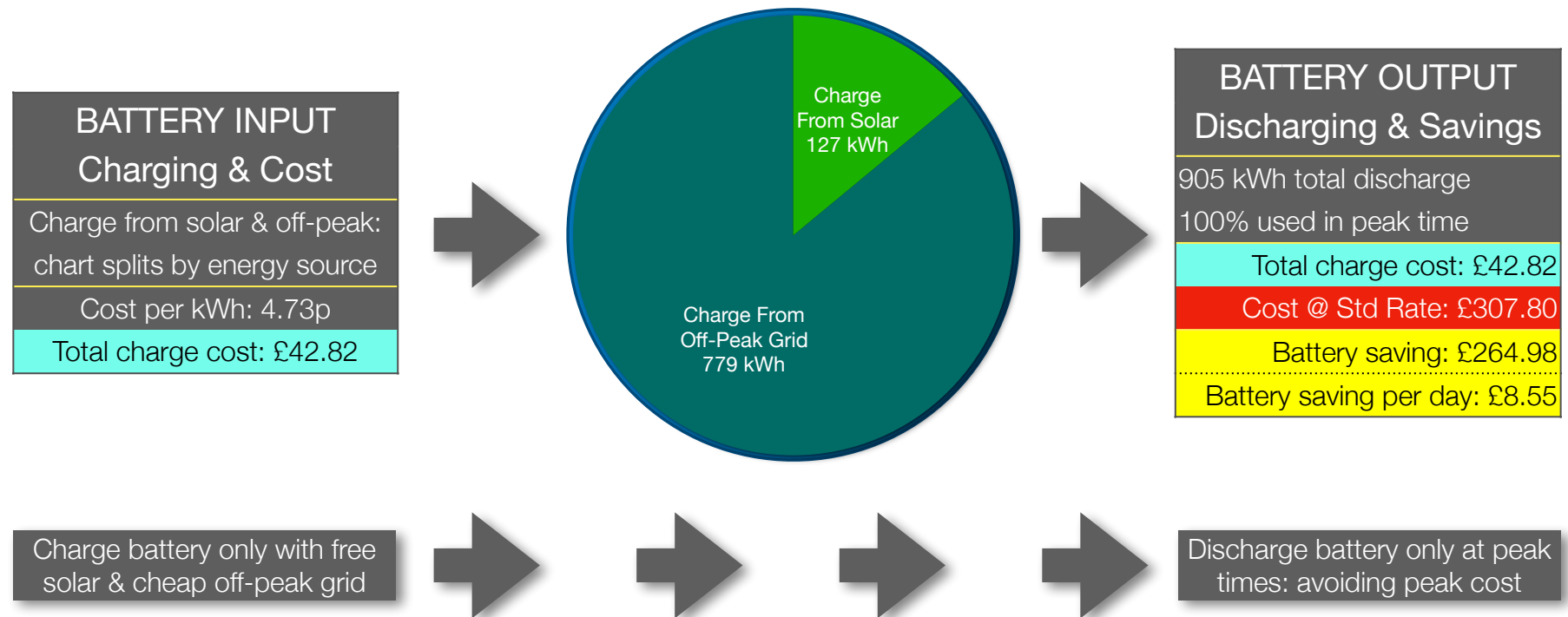
Outer Circle

Total Electricity Usage
Split By Energy Destination
2,551 kWh

CO₂ Emissions Reductions and Cash Savings/Incentives



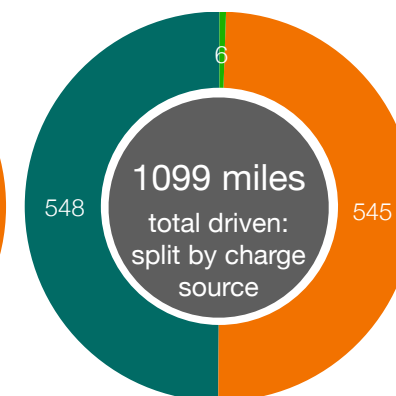
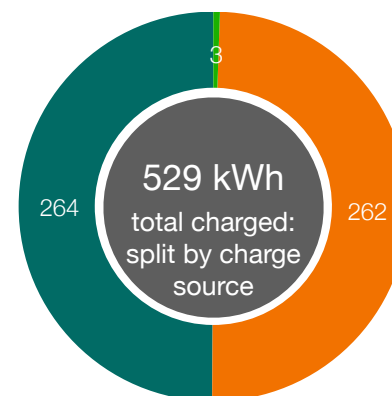
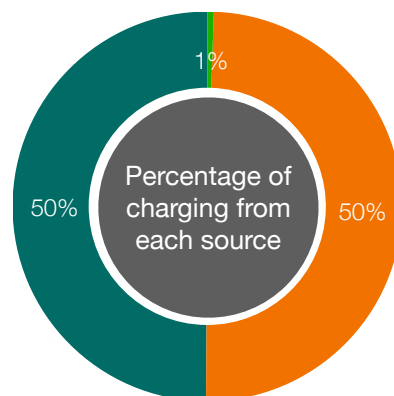
Savings from battery by time-shifting consumption



EV cost & carbon savings

Tesla Model X: mileage, cost & carbon summary

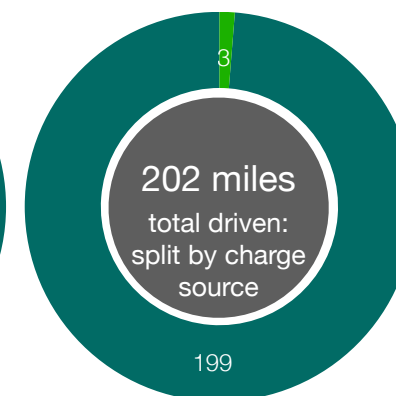
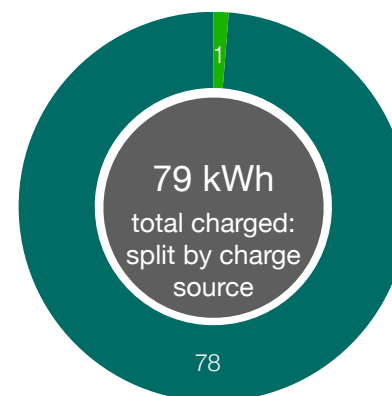
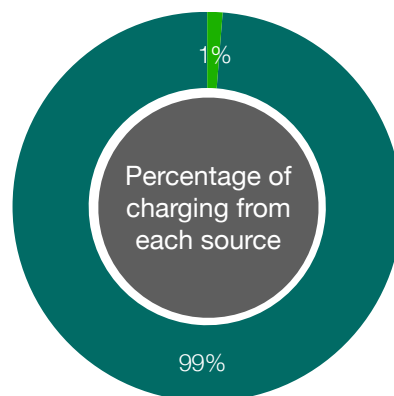
Miles driven in this month	1,099.0
Total cost, using charging mix shown	£14.51
Electricity charging cost, pence per mile	1.3204p
Cost saved vs 35mpg car @ £1.68/litre	£224.84
CO2 saved vs UK ICE avg @ 124.1g/km	220 kg



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	1,099.0
Total cost, using charging mix shown	£14.51
Electricity charging cost, pence per mile	1.3204p
Cost saved vs 35mpg car @ £1.68/litre	£224.84
CO2 saved vs UK ICE avg @ 124.1g/km	220 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	2,198.0
Total cost, using charging mix shown	£29.02
Fuel cost, pence per mile	1.3204p
Cost saved vs ICE cars @ £1.68/litre	£449.68
CO2 saved vs ICE, total for both cars	439 kg

ASHP cost & carbon savings

Air Source Heat Pump

kWh electricity input in month	1,232 kWh
kWh heat output in month	3,305 kWh
COP efficiency (heat ÷ electricity)	2.68
Average electricity cost per kWh, pence	6.5507p
Total ASHP electricity cost in month	£80.72
Heating oil for same output @ 9.8 kWh/l	337 litres
Cost of heating oil @ £1.01/litre	£340.62

Cost saved ASHP vs oil boiler	£259.90
CO2 saved vs oil boiler @ 2.96 kg/litre	998 kg

Whole system cost & carbon savings

Smart energy savings

kWh electricity consumed in month	2,551.28
kWh generated by on-site solar	379.20
kWh imported from grid	2,172.08
Total grid electricity cost	£159.38

Electricity @ price cap rate: 27.25p/kWh	£695.22
CO2: electricity @ UK grid avg: 181g/kWh	462 kg

Cost saved vs standard rate electricity	£535.85
CO2 saved by 100% renewable electricity	462 kg

Summary overview savings, incentives, and carbon reduction in month

Total energy cost in month for all uses, including electricity standing charge	£167.13
Cost Avoided: standard rate electricity not purchased	£869.07
Cost Avoided: boiler heating oil for same heat output not purchased	£340.62
Cost Avoided: petrol/diesel for same mileage in ICE cars not purchased	£273.50
Total energy cost savings	£1,483.19
Incentive: Feed In Tariff for Solar Generation AND £2.19 per day Govt Energy Bill Support Oct 22–Mar 23	£92.19
Incentive: Renewable Heat Initiative for Air Source Heat Pump	£137.64
Total incentives	£229.83
Combined Savings and Incentives	£1,713.02
MINUS total energy cost in month for all uses, including electricity standing charge	-£167.13
Overall net benefit = {(Combined Savings + Incentives) – (Energy Cost)}	£1,545.89
Total CO2 saved: {(100% renewable electricity vs UK grid avg) + (EVs vs ICE) + (ASHP vs oil boiler)}	1.899 tonnes