

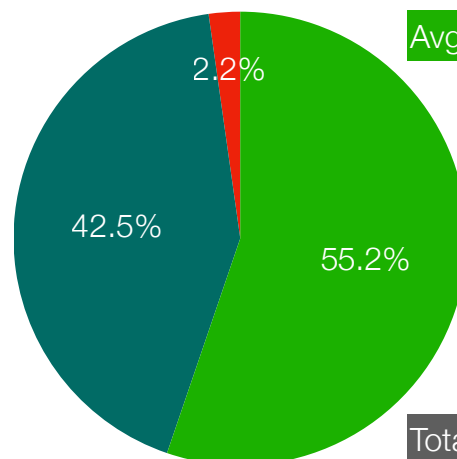
Peak	£6.35
Off Peak	£44.34
Solar	£0.00

Total Energy Cost £50.69

Standing Charge £7.75

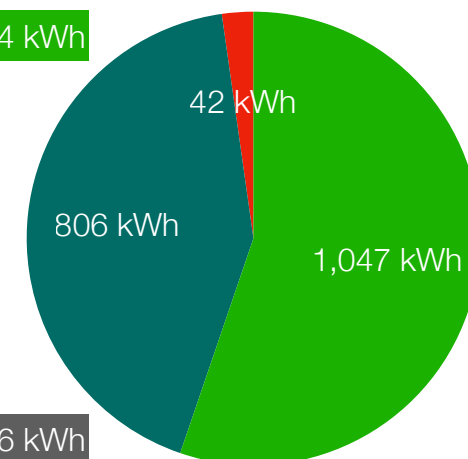
Total Electric Bill £58.44

Avg Cost per kWh 3.0829p



● Solar
● Off Peak Grid
● Peak Grid

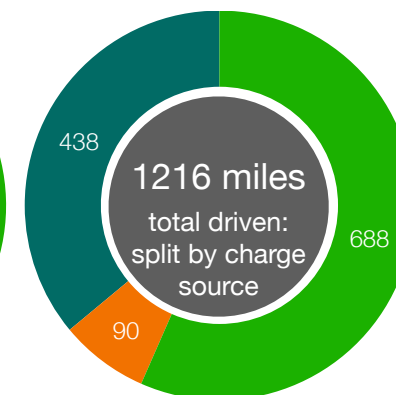
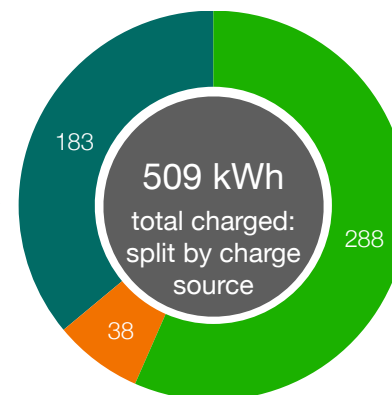
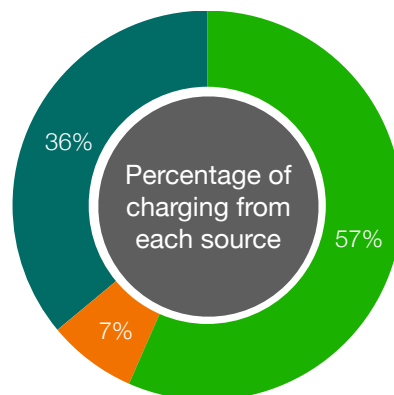
Total: Solar + Grid 1,896 kWh



EV cost & carbon savings

Tesla Model X: mileage, cost & carbon summary

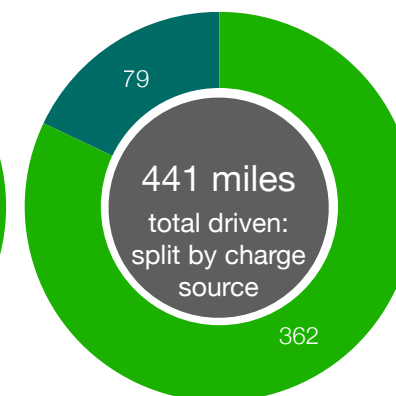
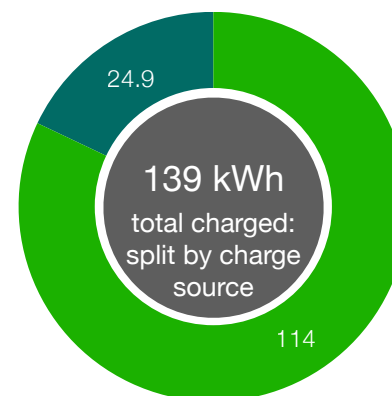
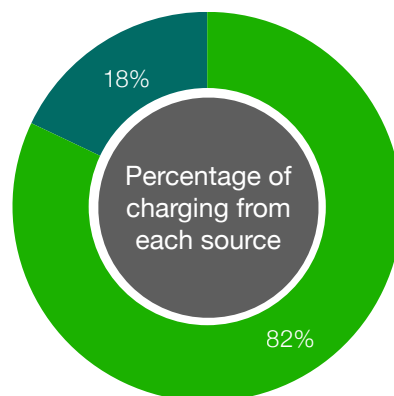
Miles driven in this month	1,215.6
Total cost, using charging mix shown	£10.08
Electricity charging cost, pence per mile	0.8294p
Cost saved vs 35mpg car @ £1.88/litre	£286.20
CO2 saved vs UK ICE avg @ 124.1g/km	243 kg



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	441.0
Total cost, using charging mix shown	£1.37
Electricity charging cost, pence per mile	0.3108p
Cost saved vs 45mpg car @ £1.88/litre	£82.23
CO2 saved vs UK ICE avg @ 124.1g/km	88 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	1,656.6
Total cost, using charging mix shown	£11.45
Fuel cost, pence per mile	0.6913p
Cost saved vs ICE cars @ £1.88/litre	£368.43
CO2 saved vs ICE, total for both cars	331 kg

ASHP cost & carbon savings

Air Source Heat Pump

kWh electricity input in month	507 kWh
kWh heat output in month	1,205 kWh
COP efficiency (heat ÷ electricity)	2.38
Average electricity cost per kWh, pence	3.0829p
Total ASHP electricity cost in month	£15.64
Heating oil for same output @ 9.8 kWh/l	123 litres
Cost of heating oil @ £1.22/litre	£149.40

Cost saved ASHP vs oil boiler	£133.76
CO2 saved vs oil boiler @ 2.96 kg/litre	364 kg

Whole system cost & carbon savings

Smart energy savings

kWh electricity consumed in month	1,895.73
kWh generated by on-site solar	1,047.10
kWh imported from grid	848.63
Total grid electricity cost	£50.69

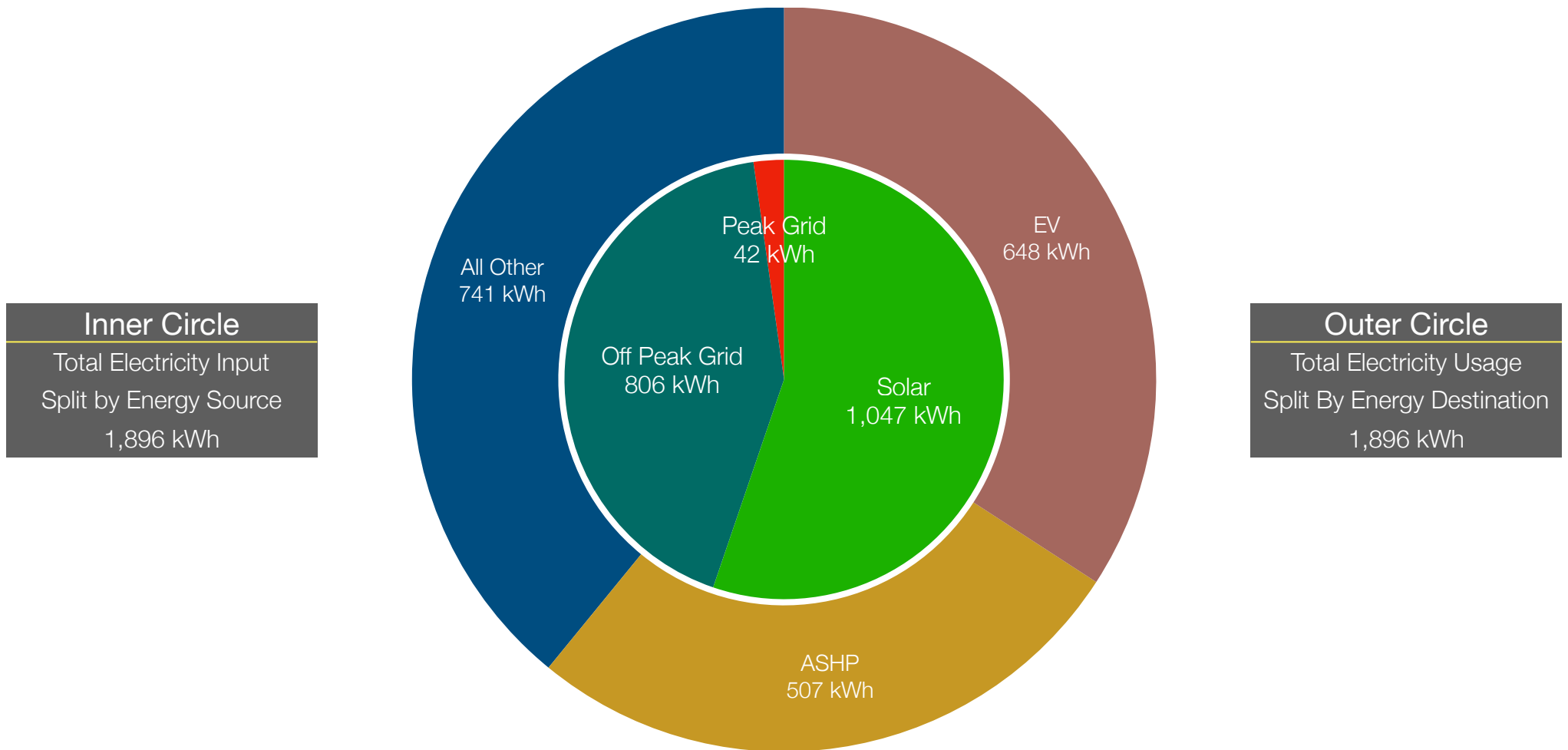
Electricity @ price cap rate: 27.25p/kWh	£516.59
CO2: electricity @ UK grid avg: 181g/kWh	343 kg

Cost saved vs standard rate electricity	£465.89
CO2 saved by 100% renewable electricity	343 kg

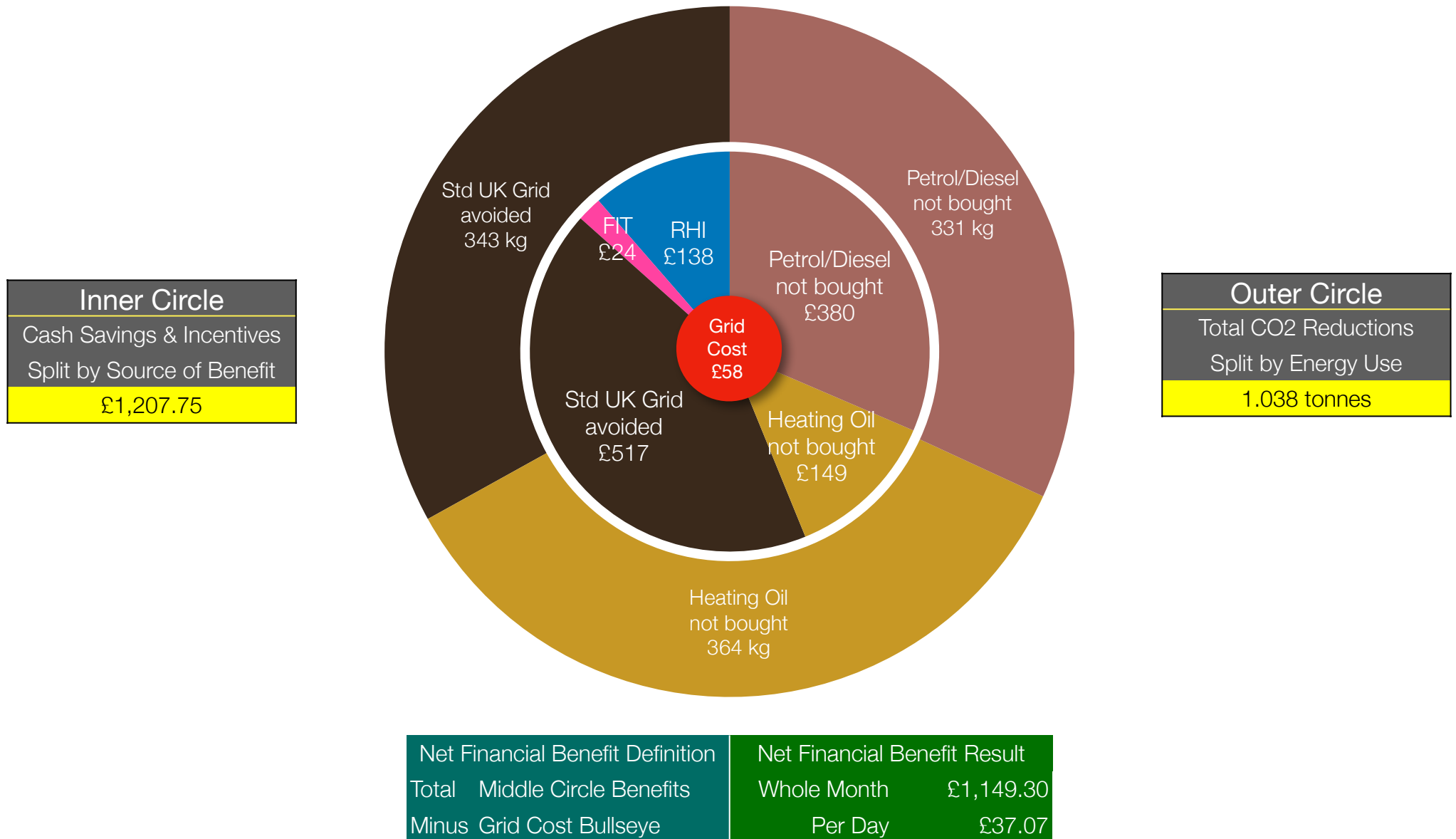
Summary overview savings, incentives, and carbon reduction in month

Total energy cost in month for all uses, including electricity standing charge	£58.44
Cost Avoided: standard rate electricity not purchased	£516.59
Cost Avoided: boiler heating oil for same heat output not purchased	£149.40
Cost Avoided: petrol/diesel for same mileage in ICE cars not purchased	£379.88
Total energy cost savings	£1,045.86
Incentive: Feed In Tariff for Solar Generation	£24.25
Incentive: Renewable Heat Initiative for Air Source Heat Pump	£137.64
Total incentives	£161.89
Combined Savings and Incentives	£1,207.75
MINUS total energy cost in month for all uses, including electricity standing charge	-£58.44
Overall net benefit = {(Combined Savings + Incentives) – (Energy Cost)}	£1,149.30
Total CO2 saved: {(100% renewable electricity vs UK grid avg) + (EVs vs ICE) + (ASHP vs oil boiler)}	1.038 tonnes

Energy Sources and Energy Destinations : Overview



CO₂ Emissions Reductions and Cash Savings/Incentives



Savings from battery by time-shifting consumption

