

Peak	£33.96
Off Peak	£73.46
Solar	£0.00

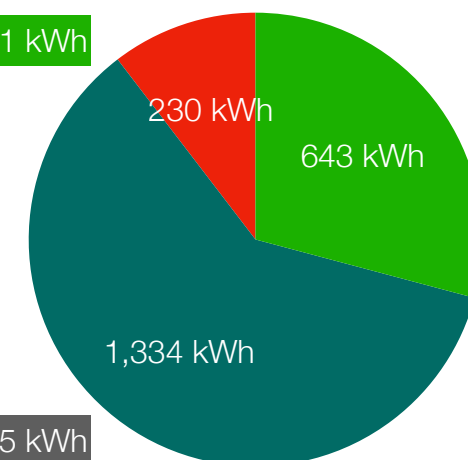
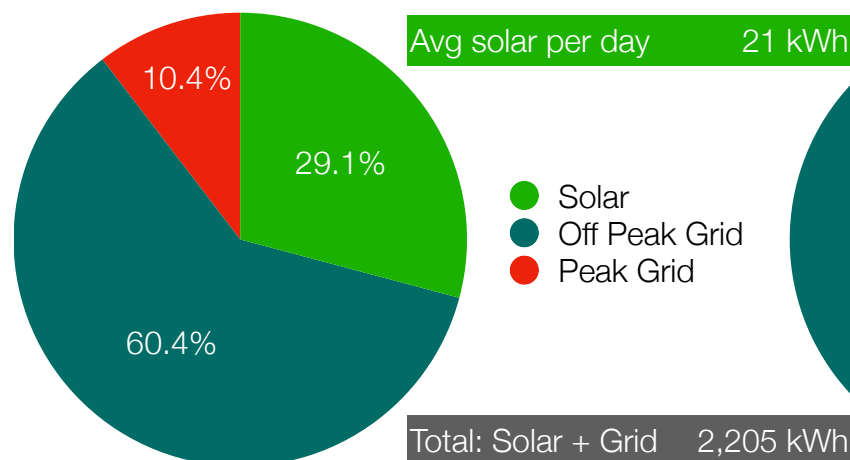
Total Energy Cost £107.73

Standing Charge £7.50

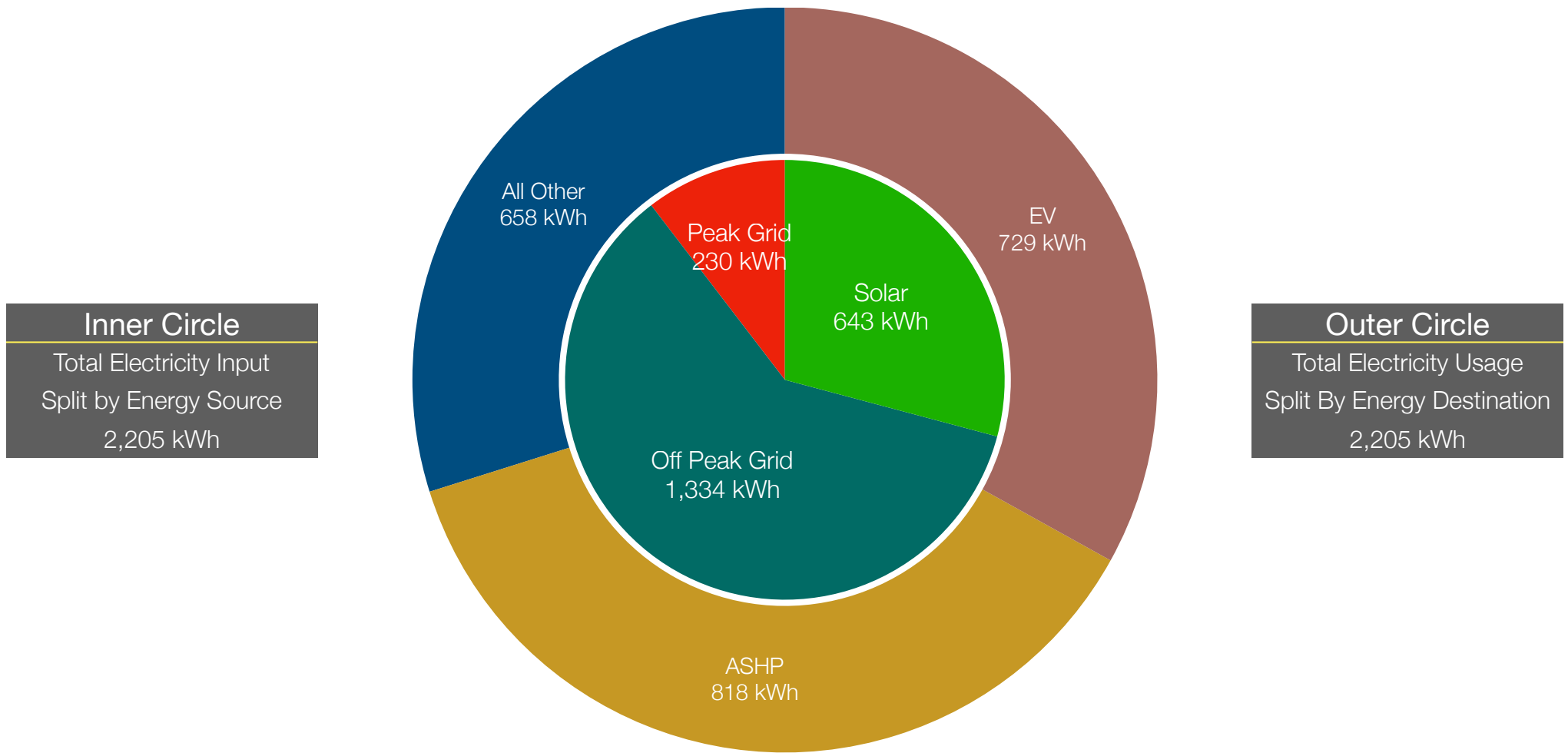
Total Electric Bill £115.23

Avg Cost per kWh 5.2252p

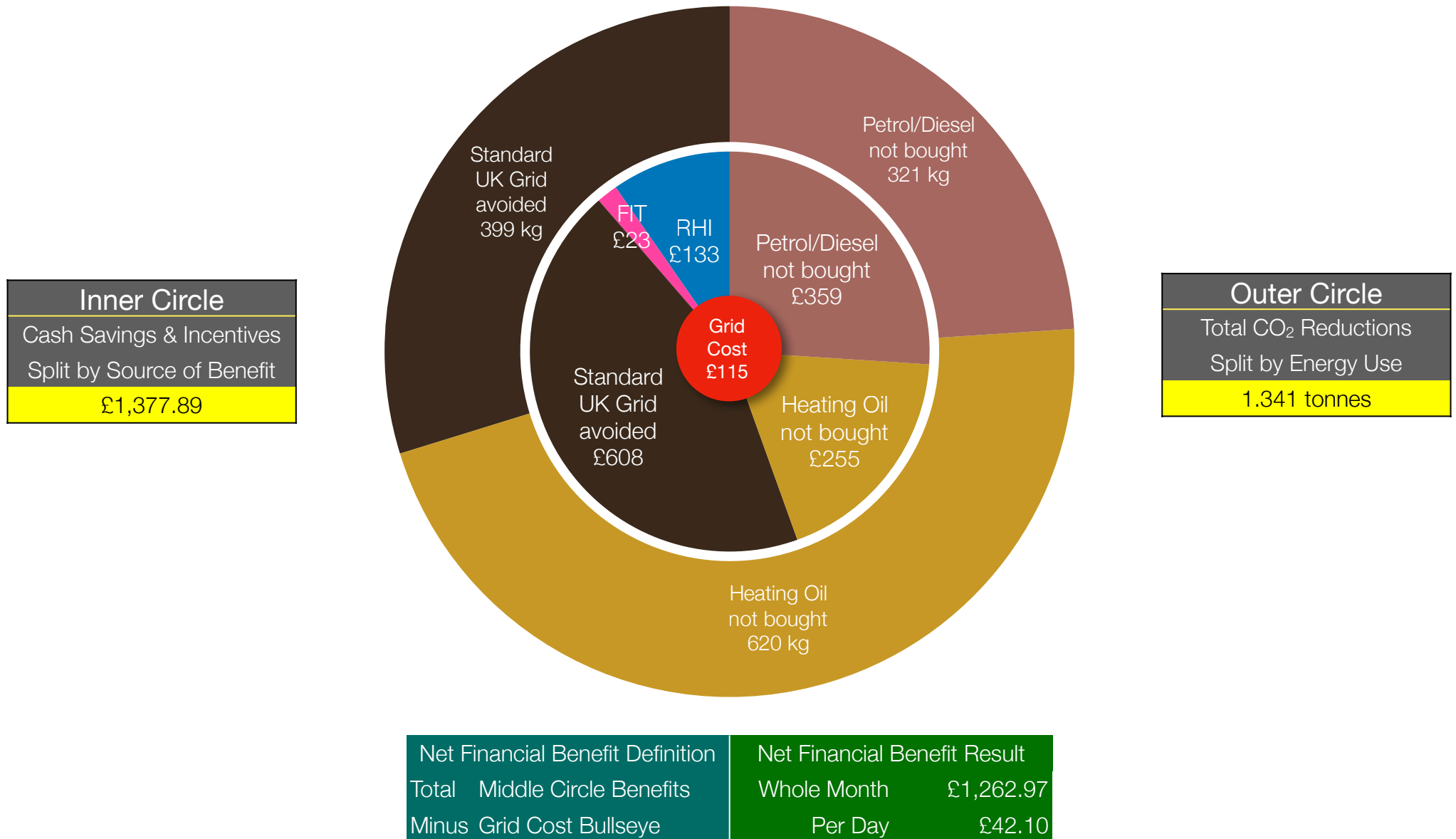
Avg Cost per Day £3.84



## Energy Sources and Energy Destinations : Overview



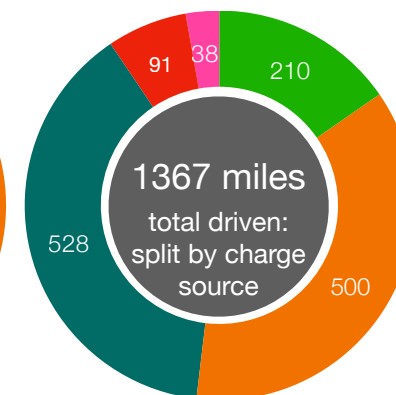
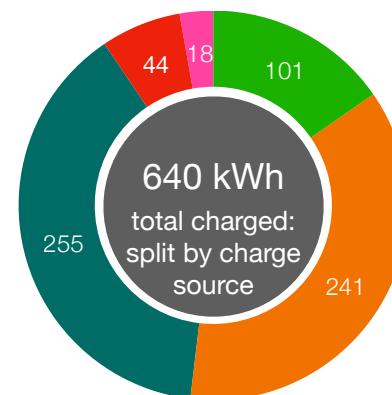
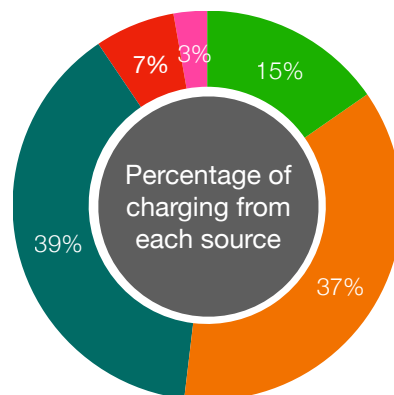
## CO<sub>2</sub> Emissions Reductions and Cash Savings/Incentives



## EV cost & carbon savings

### Tesla Model X: mileage, cost & carbon summary

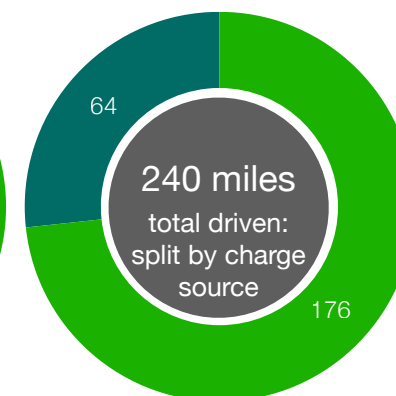
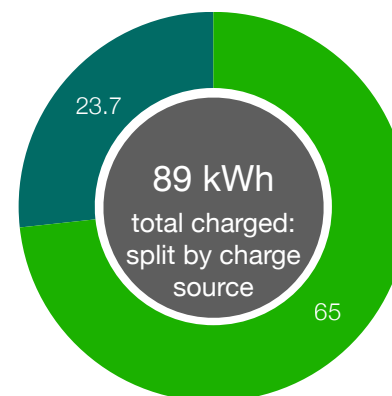
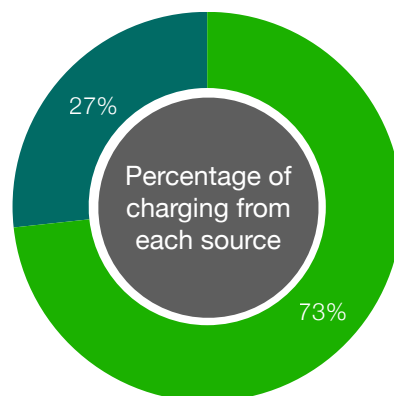
Miles driven in this month	1,367.0
Total cost, using charging mix shown	£26.09
Electricity charging cost, pence per mile	1.9085p
Cost saved vs 35mpg car @ £1.78/litre	£289.36
CO2 saved vs UK ICE avg @ 124.1g/km	273 kg



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	240.1
Total cost, using charging mix shown	£1.30
Electricity charging cost, pence per mile	0.5427p
Cost saved vs 45mpg car @ £1.78/litre	£41.79
CO2 saved vs UK ICE avg @ 124.1g/km	48 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	1,607.1
Total cost, using charging mix shown	£27.39
Fuel cost, pence per mile	1.7044p
Cost saved vs ICE cars @ £1.78/litre	£331.15
CO2 saved vs ICE, total for both cars	321 kg

## ASHP cost & carbon savings

### Air Source Heat Pump

kWh electricity input in month	818 kWh
kWh heat output in month	2,054 kWh
COP efficiency (heat ÷ electricity)	2.51
Average electricity cost per kWh, pence	5.211p
Total ASHP electricity cost in month	£42.63
Heating oil for same output @ 9.8 kWh/l	210 litres
Cost of heating oil @ £1.22/litre	£254.65

Cost saved ASHP vs oil boiler	£212.03
CO2 saved vs oil boiler @ 2.96 kg/litre	620 kg

## Whole system cost & carbon savings

### Smart energy savings

kWh electricity consumed in month	2,205.29
kWh generated by on-site solar	643.00
kWh imported from grid	1,562.29
Total grid electricity cost	£107.42

Electricity @ price cap rate: 27.25p/kWh	£600.94
CO2: electricity @ UK grid avg: 181g/kWh	399 kg

Cost saved vs standard rate electricity	£493.52
CO2 saved by 100% renewable electricity	399 kg

### Summary overview savings, incentives, and carbon reduction in month

Total energy cost in month for all uses, including electricity standing charge	£114.92
Cost Avoided: standard rate electricity not purchased	£608.03
Cost Avoided: boiler heating oil for same heat output not purchased	£254.65
Cost Avoided: petrol/diesel for same mileage in ICE cars not purchased	£358.54
<b>Total energy cost savings</b>	<b>£1,221.22</b>
Incentive: Feed In Tariff for Solar Generation	£23.46
Incentive: Renewable Heat Initiative for Air Source Heat Pump	£133.20
<b>Total incentives</b>	<b>£156.66</b>
<b>Combined Savings and Incentives</b>	<b>£1,377.89</b>
MINUS total energy cost in month for all uses, including electricity standing charge	-£114.92
<b>Overall net benefit = {(Combined Savings + Incentives) – (Energy Cost)}</b>	<b>£1,262.97</b>
Total CO2 saved: {(100% renewable electricity vs UK grid avg) + (EVs vs ICE) + (ASHP vs oil boiler)}	1.341 tonnes