

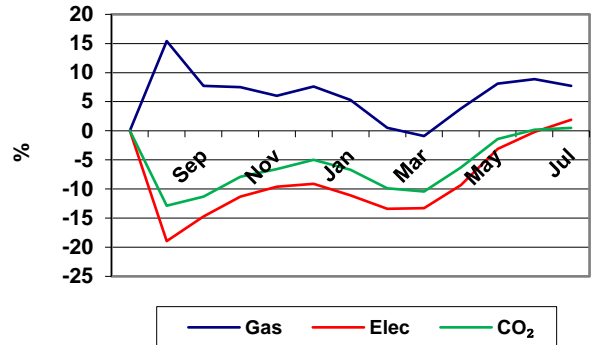
**CO<sub>2</sub>**

CO<sub>2</sub> emissions for this month are 283 tonnes, a 5.4% increase on 2019/20 July emissions.

Total CO<sub>2</sub> emissions for the year are 5,602 tonnes, a 0.5% increase on last year's emissions.

Since 2005 CO<sub>2</sub> emissions have reduced by 37.4%. In addition, as the Campus has expanded over this period, CO<sub>2</sub> emissions per m<sup>2</sup> of floor area have reduced by 59%.

**% variation from 2019/20 consumption**



**Gas**

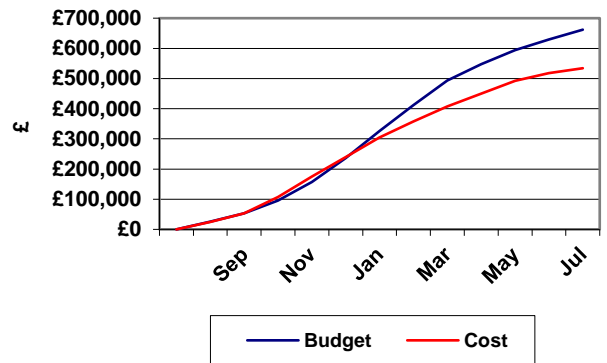
Gas consumption for this month is 494,521 kWh, a 21.1% decrease on 2019/20 July consumption.

The cost of the gas consumed this month is £25,731, an increase of 14% on last year's figure.

Total Gas consumption for the year is 16,708,728 kWh, a 7.7% increase on 2019/20 consumption.

The cost of the Gas consumed in the year is £534,128, an increase of 12% on last year's figure.

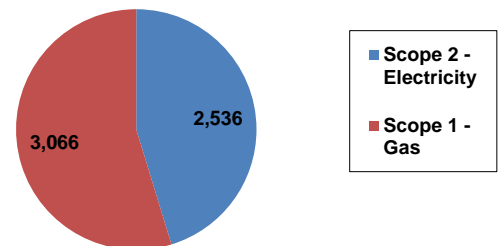
**Gas cost vs. budget**



**CO<sub>2</sub> Emissions Split (tonnes)**

**CHP**

The Tower CHP generated 53,806 kWh of electricity.



## Electricity

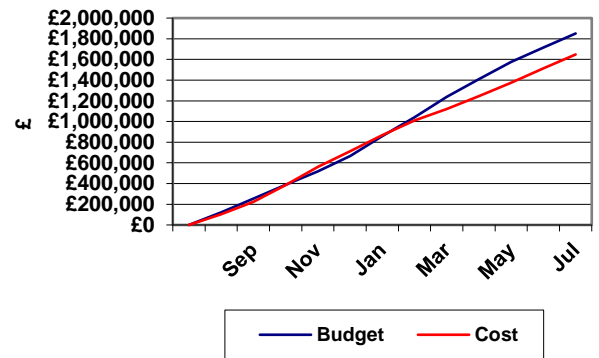
Electricity consumption for this month is 767,969 kWh, a 37.2% increase on 2019/20 July consumption.

The cost of the electricity used this month is £136,535, an increase of 45.5% on last year's figure.

Total Electricity consumption for the year is 10,105,677 kWh, a 1.9% increase on 2019/20 consumption.

The cost of the Electricity used in the year is £1,648,297, an increase of 6.9% on last year's figure.

Electricity cost vs. budget



## Water

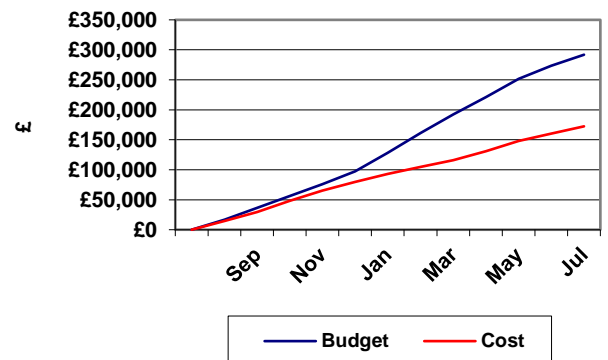
Water consumption for this month is 2,889 m<sup>3</sup>, a 22.6% increase on 2019/20 July consumption.

The cost of the Water used this month is £13,114, an increase of 11.4% on last year's figure.

Total Water consumption for the year is 44,319 m<sup>3</sup>, a 26.8% decrease on 2019/20 consumption.

The cost of the Water used in the year is £172,411, a decrease of 24% on last year's figure.

Water cost vs. budget



## Renewable Energy

The NHC PV system generated 3,201 kWh of electricity.

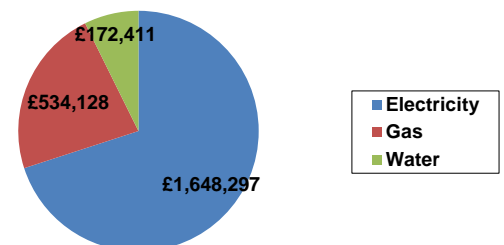
The SLB PV system generated 2,958 kWh of electricity.

The Curve PV system generated 3,700 kWh of electricity.

The Cornell PV system generated 3,695 kWh of electricity.

The Curve rainwater harvester saved 14 m<sup>3</sup> of water.

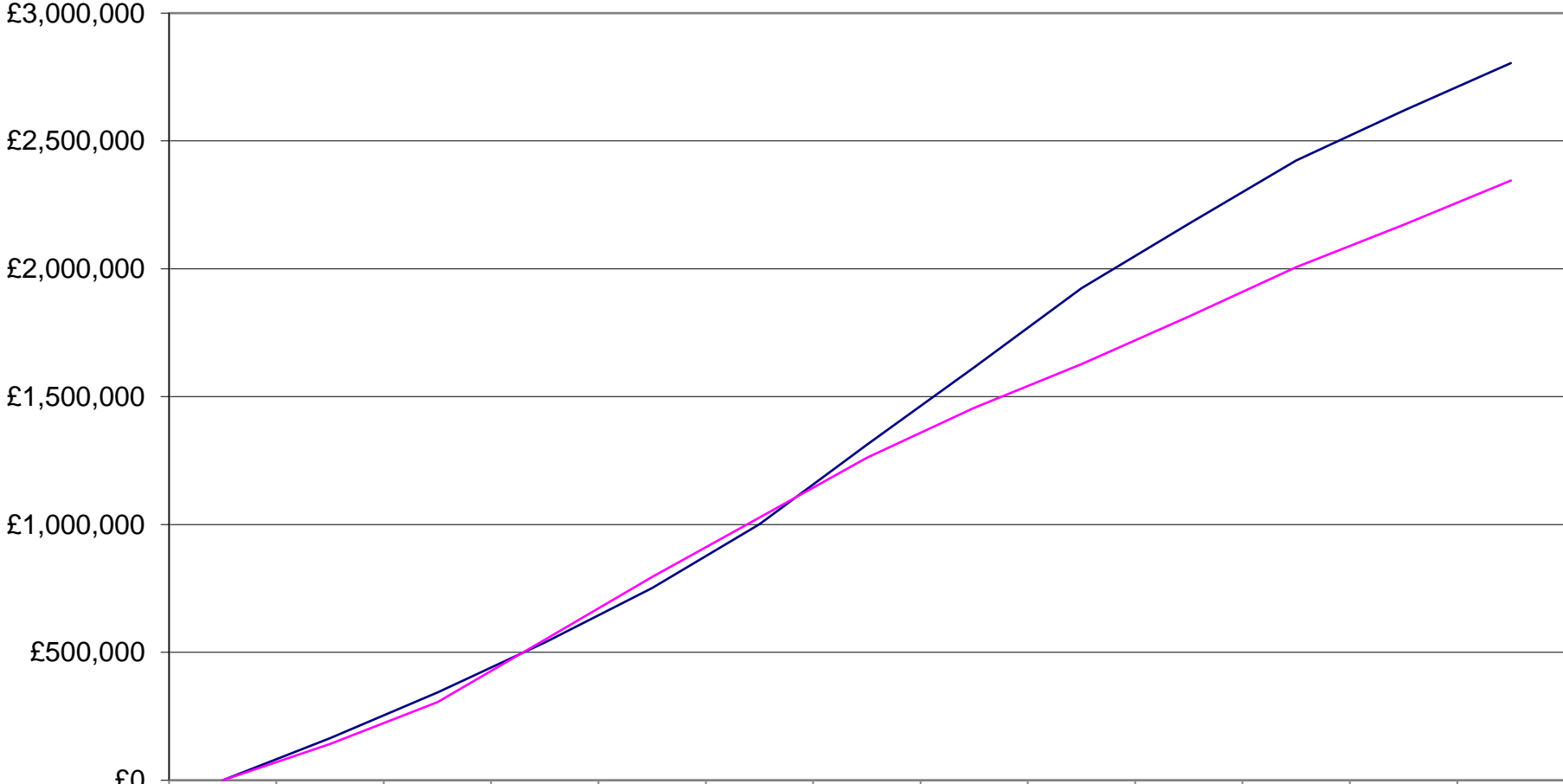
Utility Costs



## Increases in Consumption

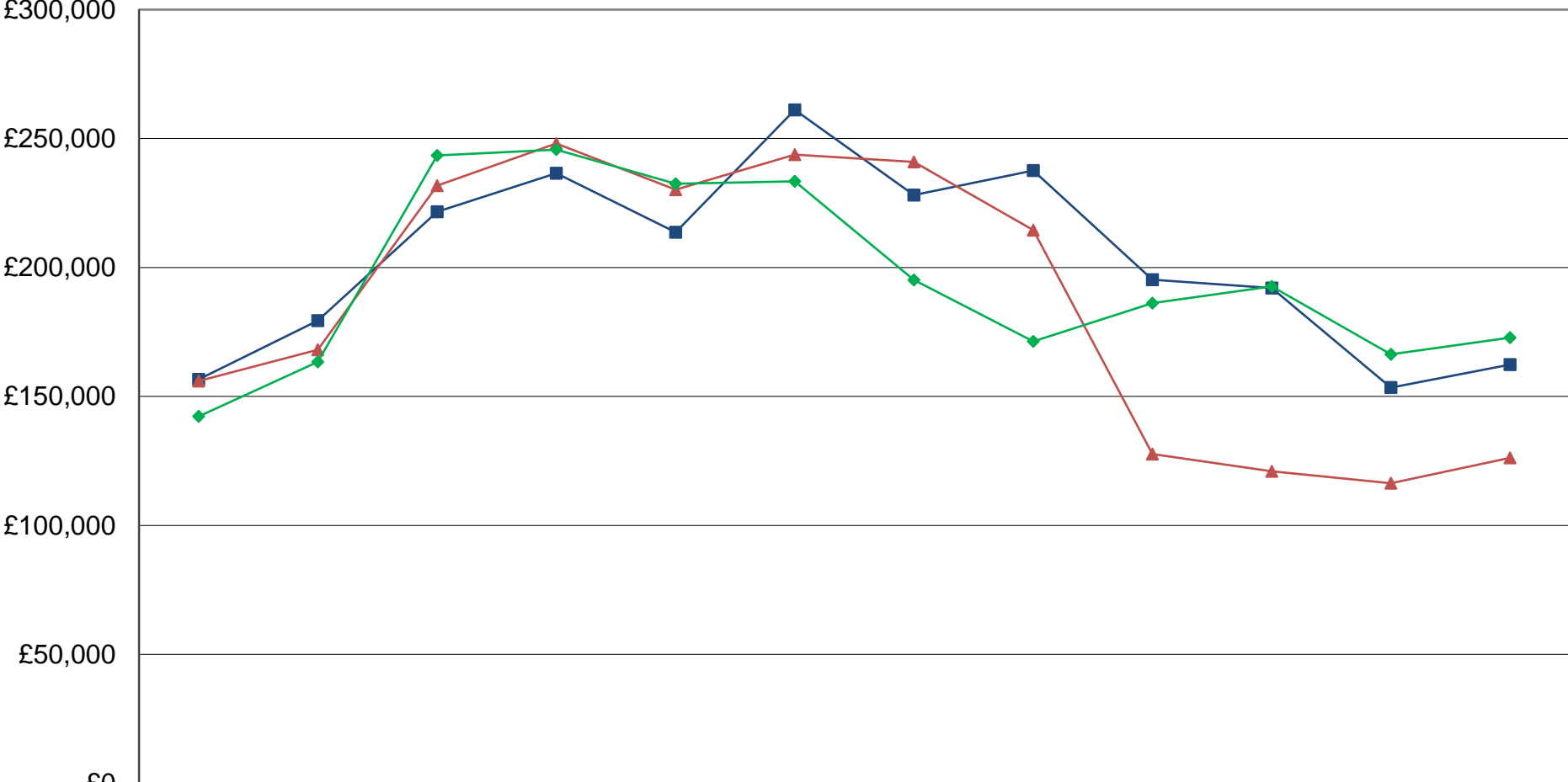
There were no major increases in consumption in July.

# Energy Spend vs Budget



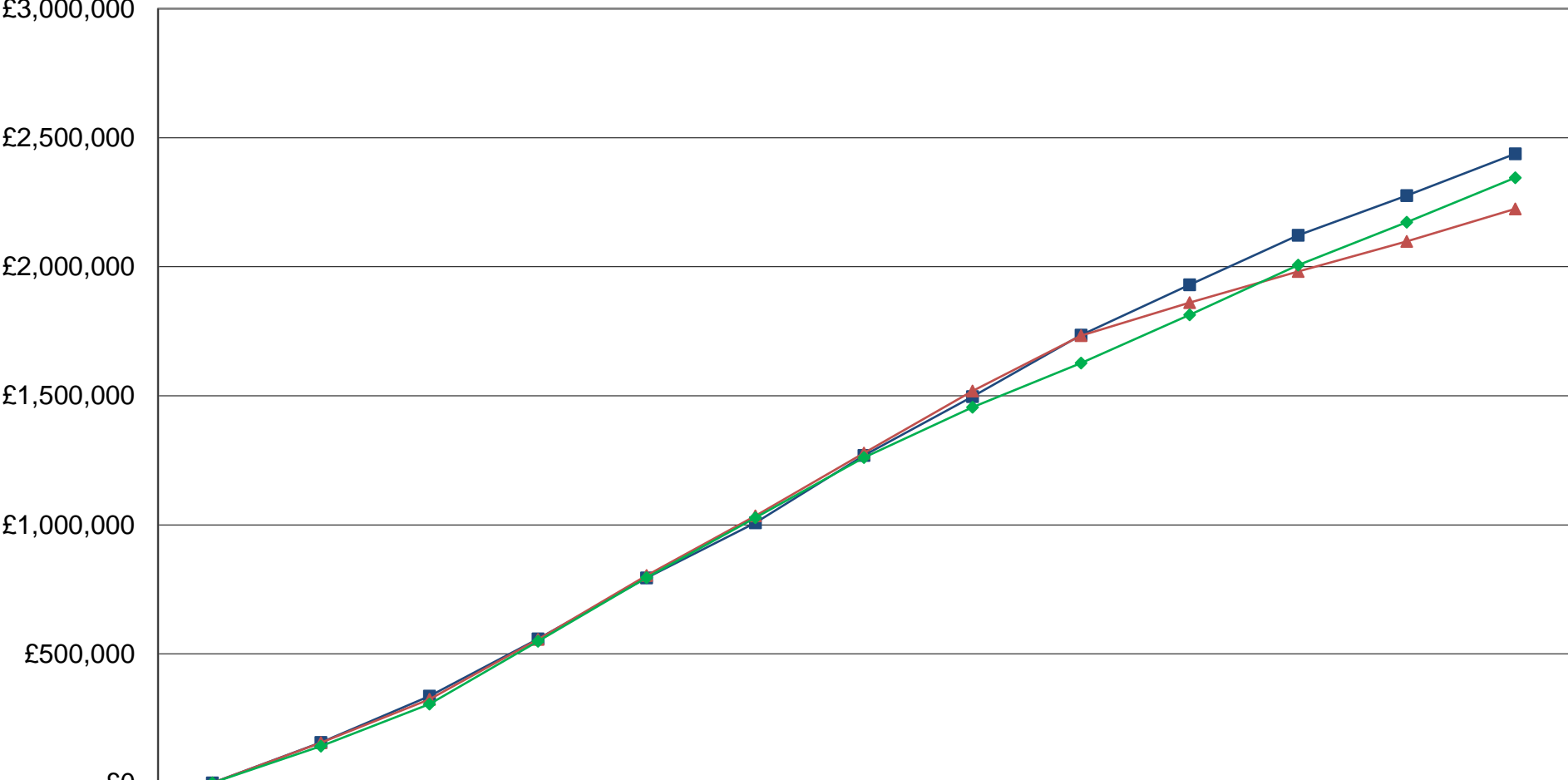
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Adjusted Budget	£0	£164,729	£343,928	£538,396	£751,944	£1,001,580	£1,311,771	£1,614,288	£1,924,633	£2,176,548	£2,423,135	£2,618,737	£2,804,598
Actual Spend	£0	£142,258	£305,720	£549,132	£794,837	£1,027,339	£1,260,792	£1,455,921	£1,627,236	£1,813,388	£2,006,047	£2,172,372	£2,345,197

# Energy Costs Per Month



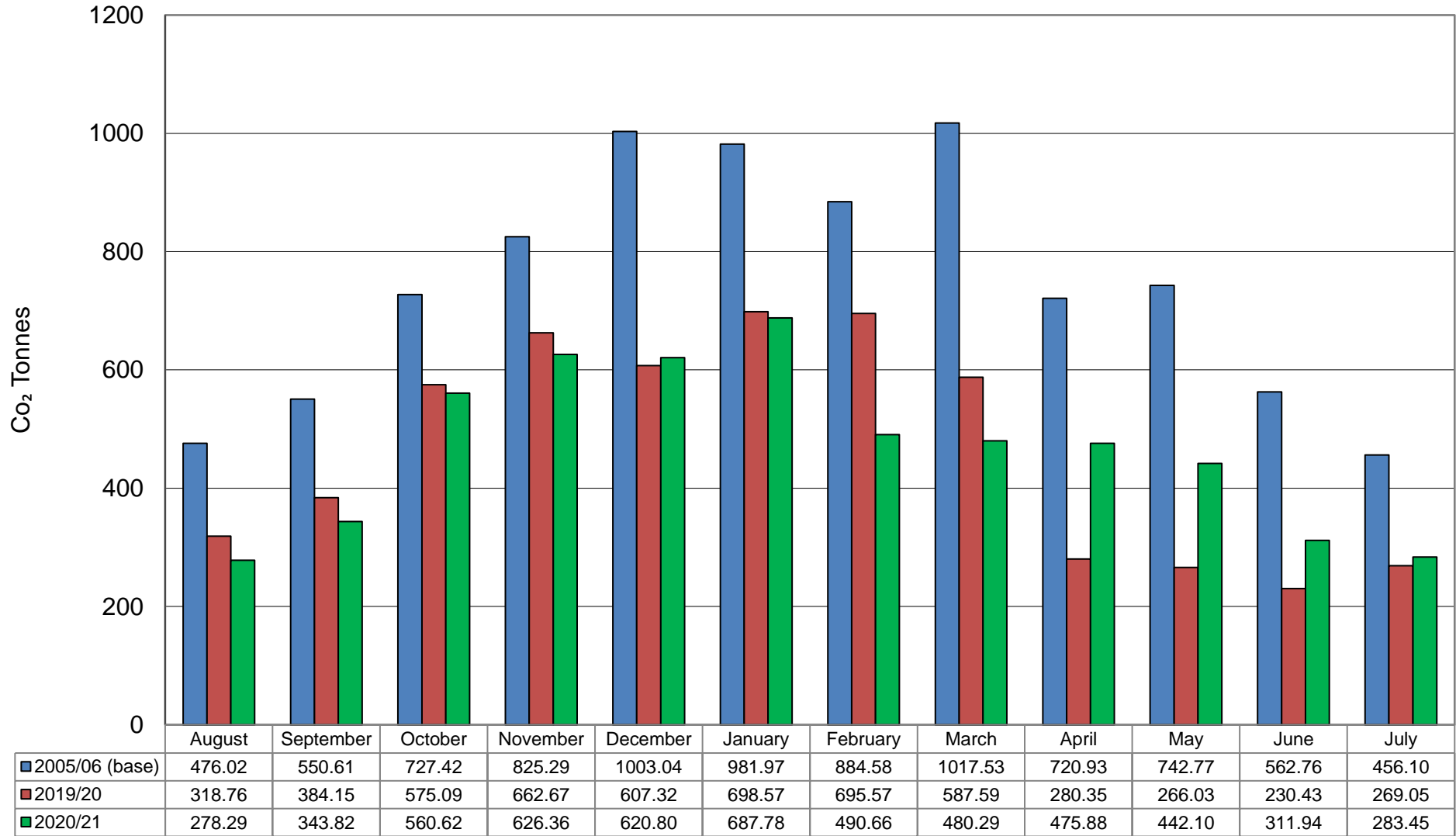
£0	August	September	October	November	December	January	February	March	April	May	June	July
■ 2018/19	£156,654	£179,441	£221,629	£236,589	£213,665	£261,134	£228,113	£237,654	£195,247	£192,060	£153,432	£162,336
▲ 2019/20	£156,042	£168,114	£231,727	£248,099	£230,173	£243,738	£240,943	£214,465	£127,671	£120,994	£116,350	£126,241
◆ 2020/21	£142,258	£163,462	£243,413	£245,704	£232,502	£233,453	£195,129	£171,315	£186,153	£192,659	£166,324	£172,825

# Cumulative Energy Cost

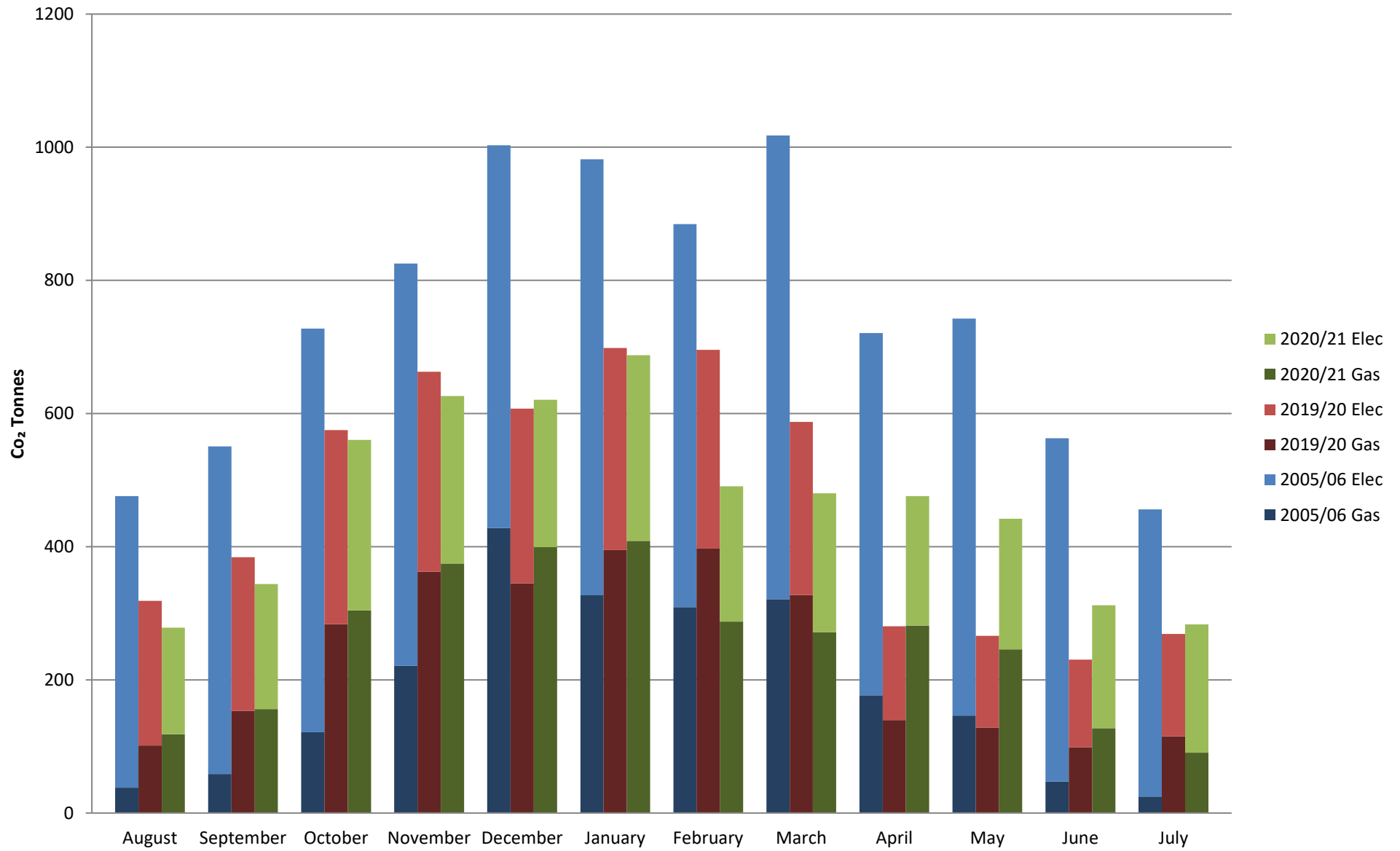


	£0	August	September	October	November	December	January	February	March	April	May	June	July
2018/19	£0	£156,654	£336,095	£557,724	£794,313	£1,007,978	£1,269,112	£1,497,225	£1,734,879	£1,930,126	£2,122,186	£2,275,618	£2,437,954
2019/20	£0	£156,042	£324,156	£555,883	£803,982	£1,034,155	£1,277,893	£1,518,836	£1,733,302	£1,860,973	£1,981,967	£2,098,317	£2,224,558
2020/21	£0	£142,258	£305,720	£549,132	£794,837	£1,027,339	£1,260,792	£1,455,921	£1,627,236	£1,813,388	£2,006,047	£2,172,372	£2,345,197

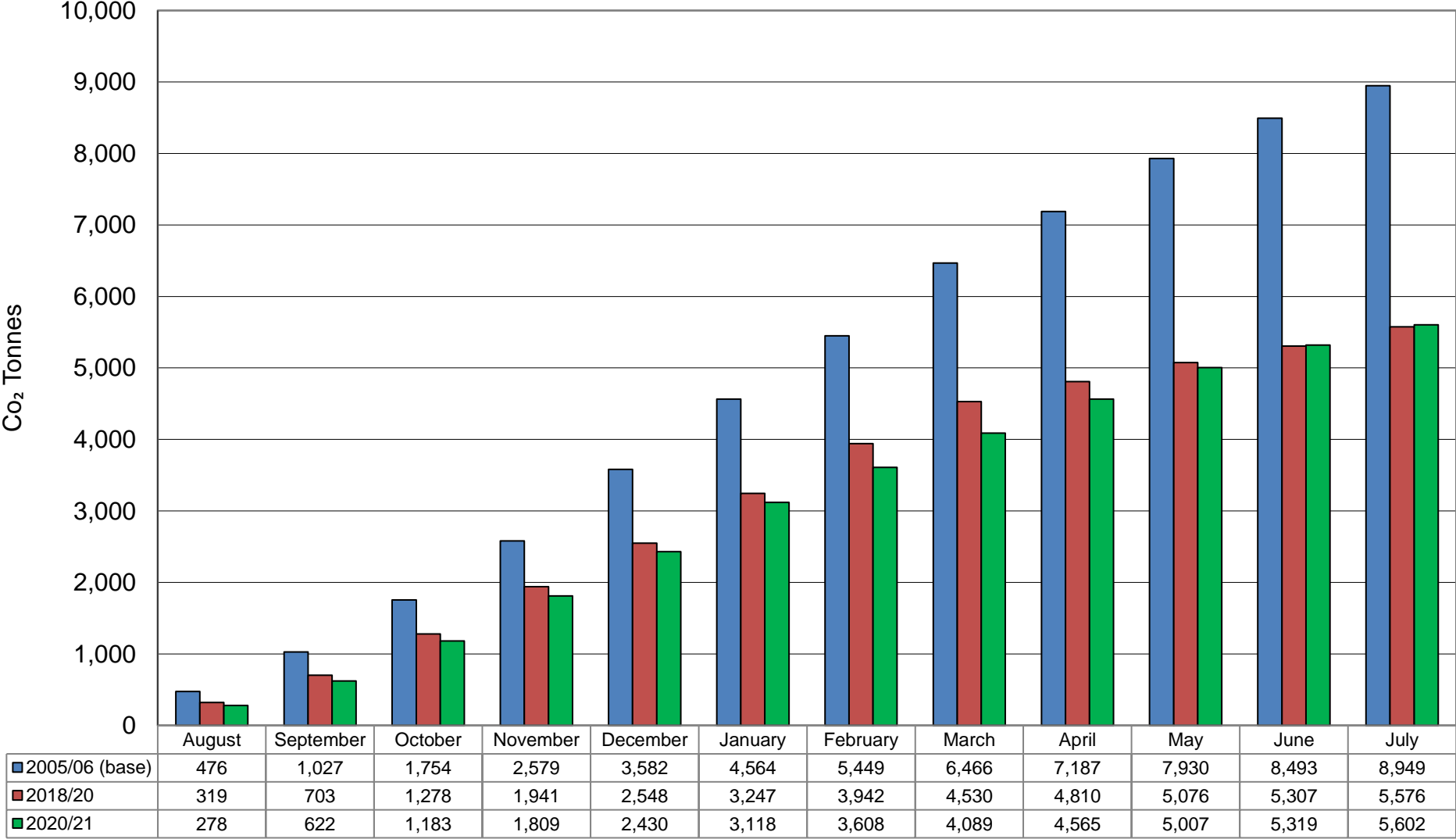
## Co<sub>2</sub> Emissions Per Month



# Co<sub>2</sub> Breakdown

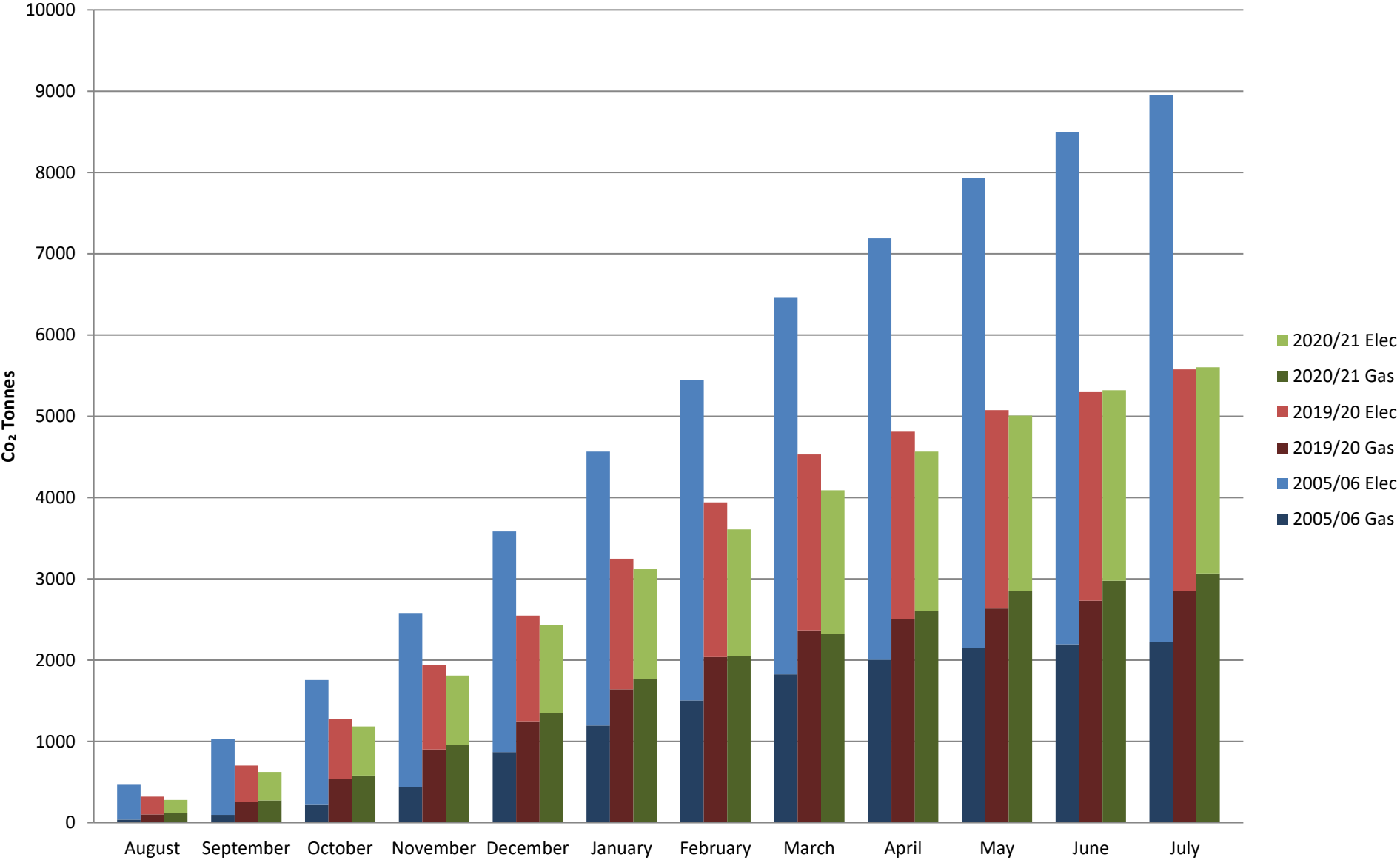


### Co<sub>2</sub> Emissions Cumulative

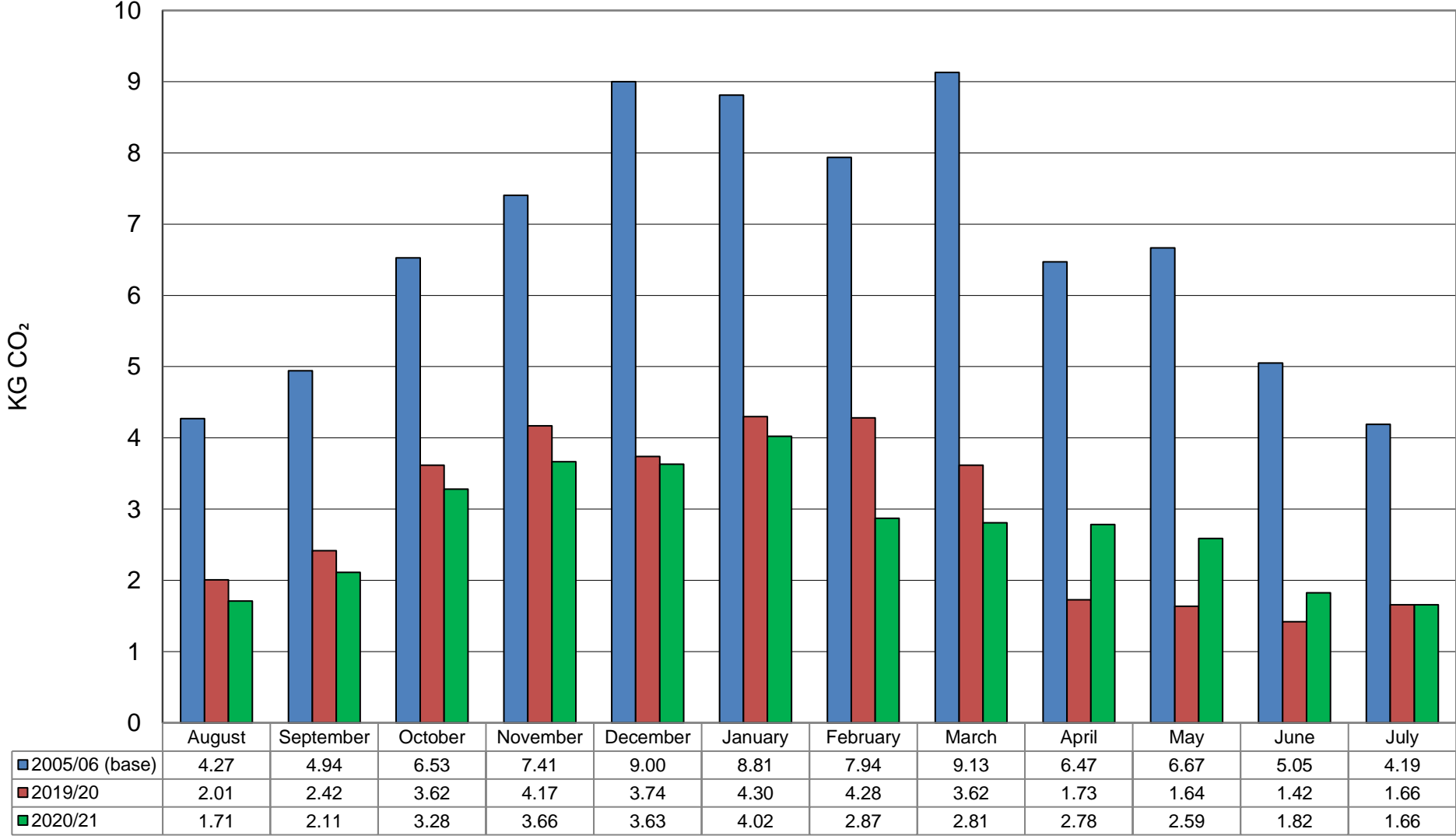




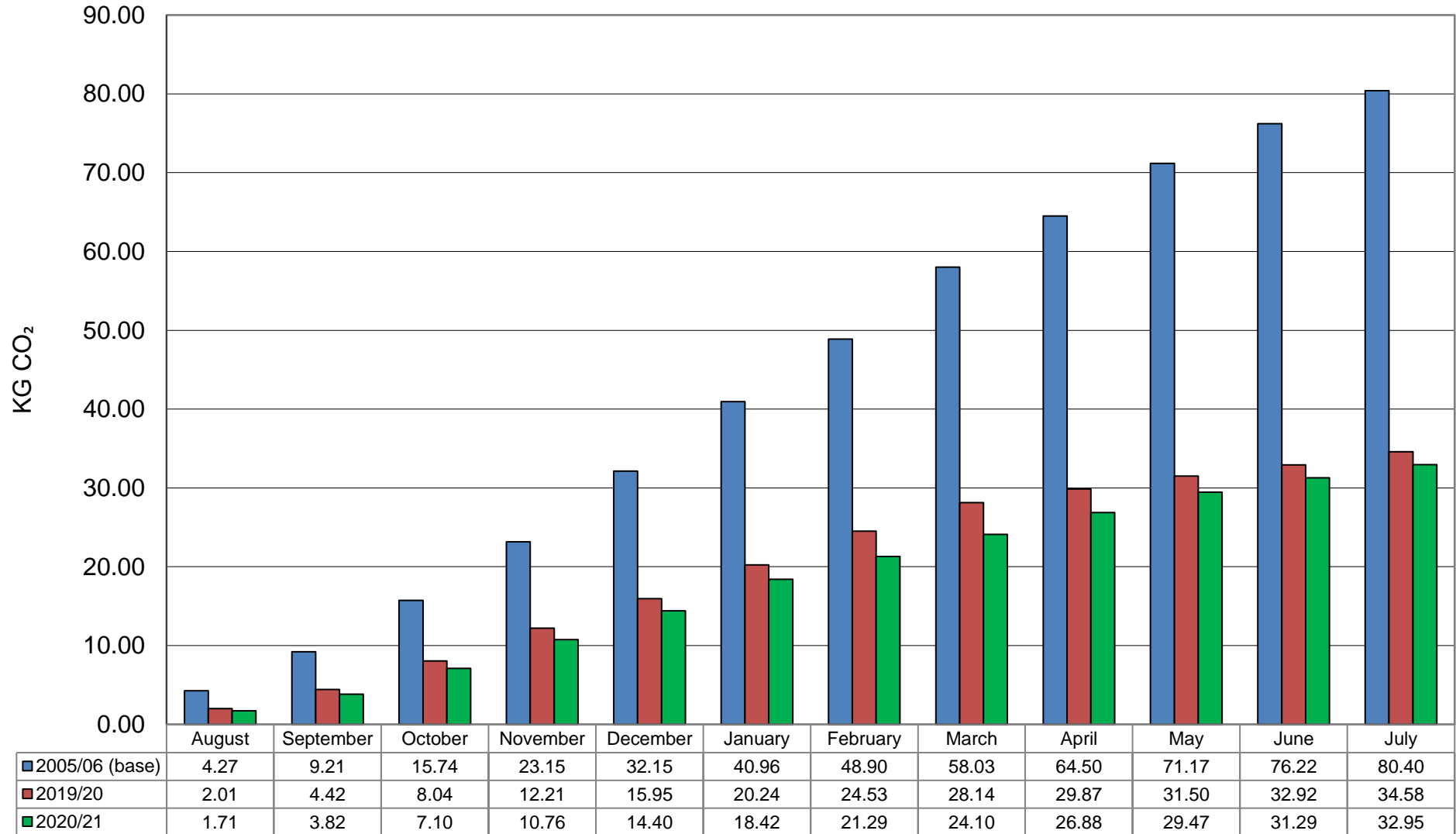
# Co<sub>2</sub> Breakdown Cumulative



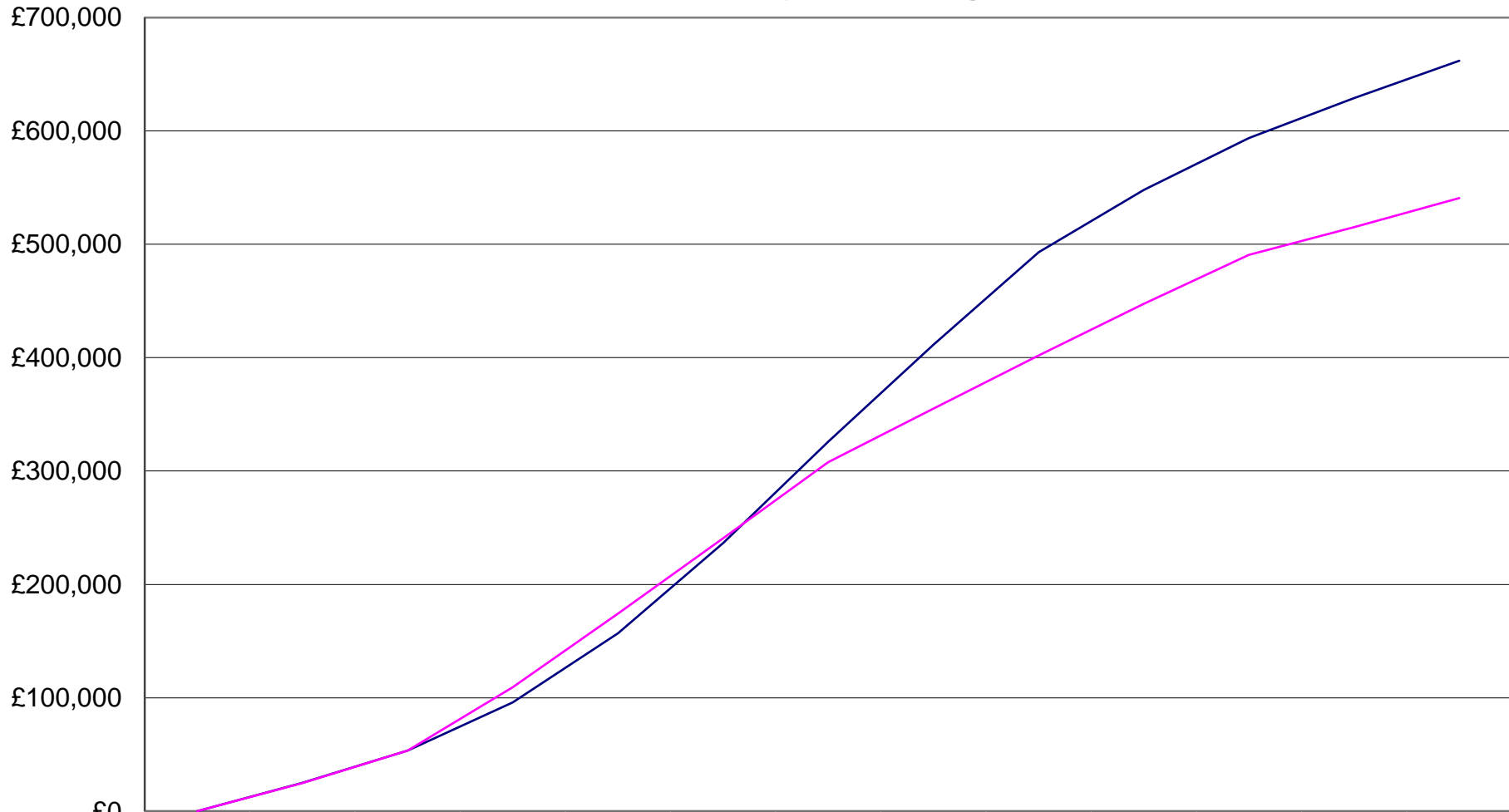
### CO<sub>2</sub> Emissions Per m<sup>2</sup>



## CO<sub>2</sub> Emissions Cumulative per m<sup>2</sup>

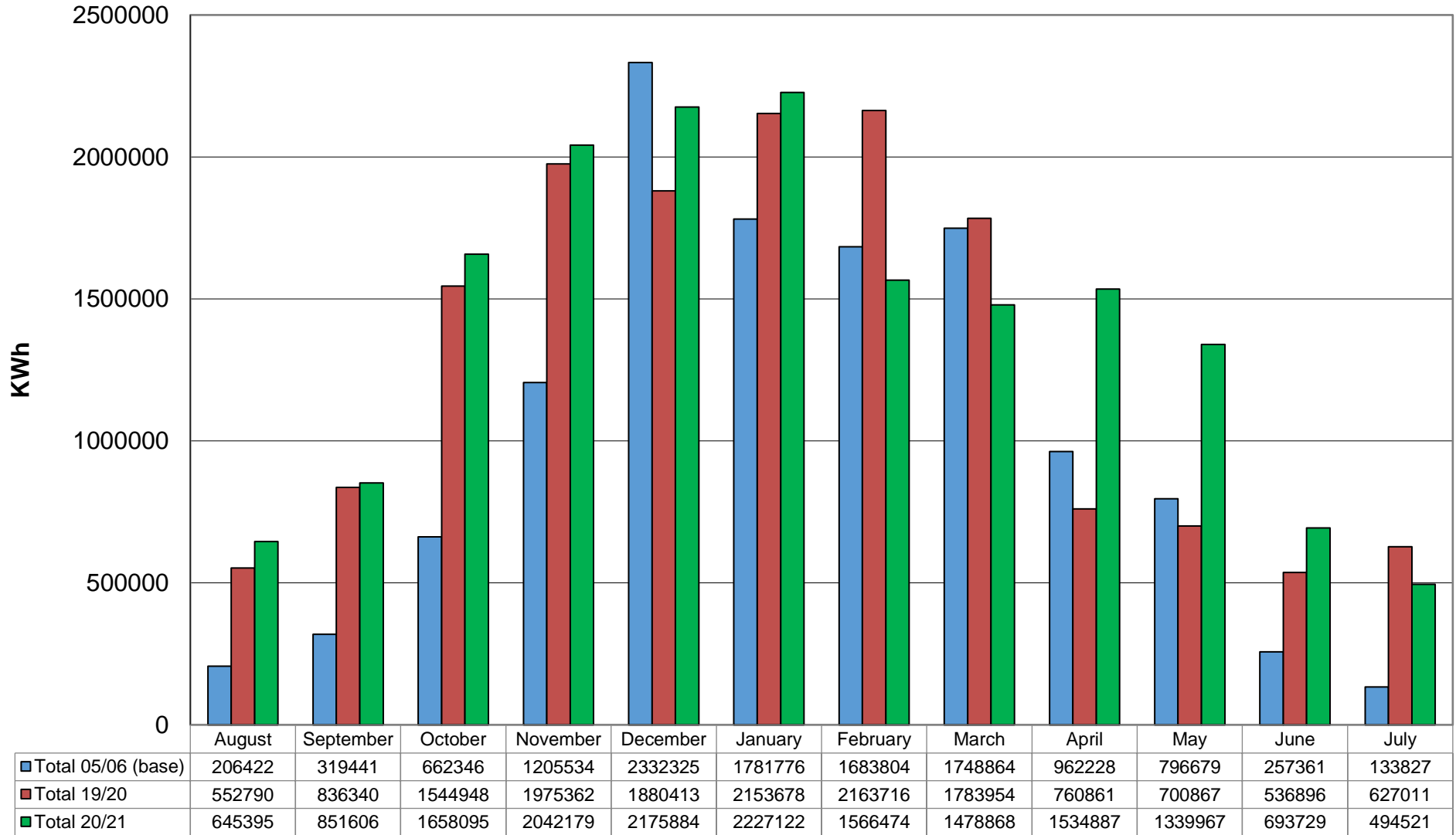


### Gas cost vs DD adjusted budget

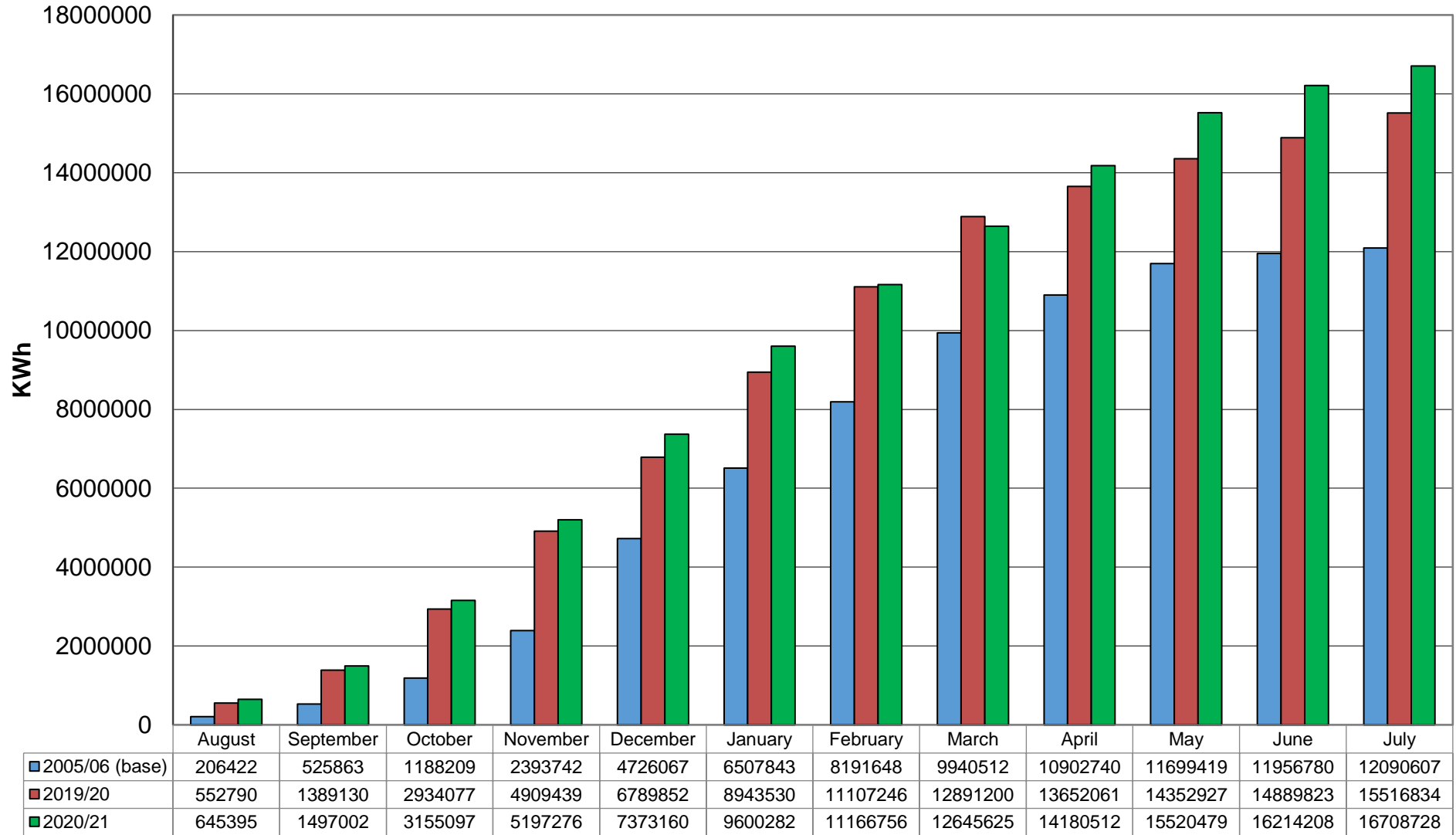


		August	September	October	November	December	January	February	March	April	May	June	July
— DD Budget	£0	£25,025	£53,518	£95,890	£157,000	£236,583	£325,851	£411,262	£493,142	£547,883	£593,832	£628,982	£661,931
— Actual Spend	£0	£24,889	£53,472	£109,231	£174,256	£240,632	£307,958	£355,112	£401,956	£447,511	£490,794	£515,078	£540,809

## Gas Consumption Per Month



## Gas Cumulative





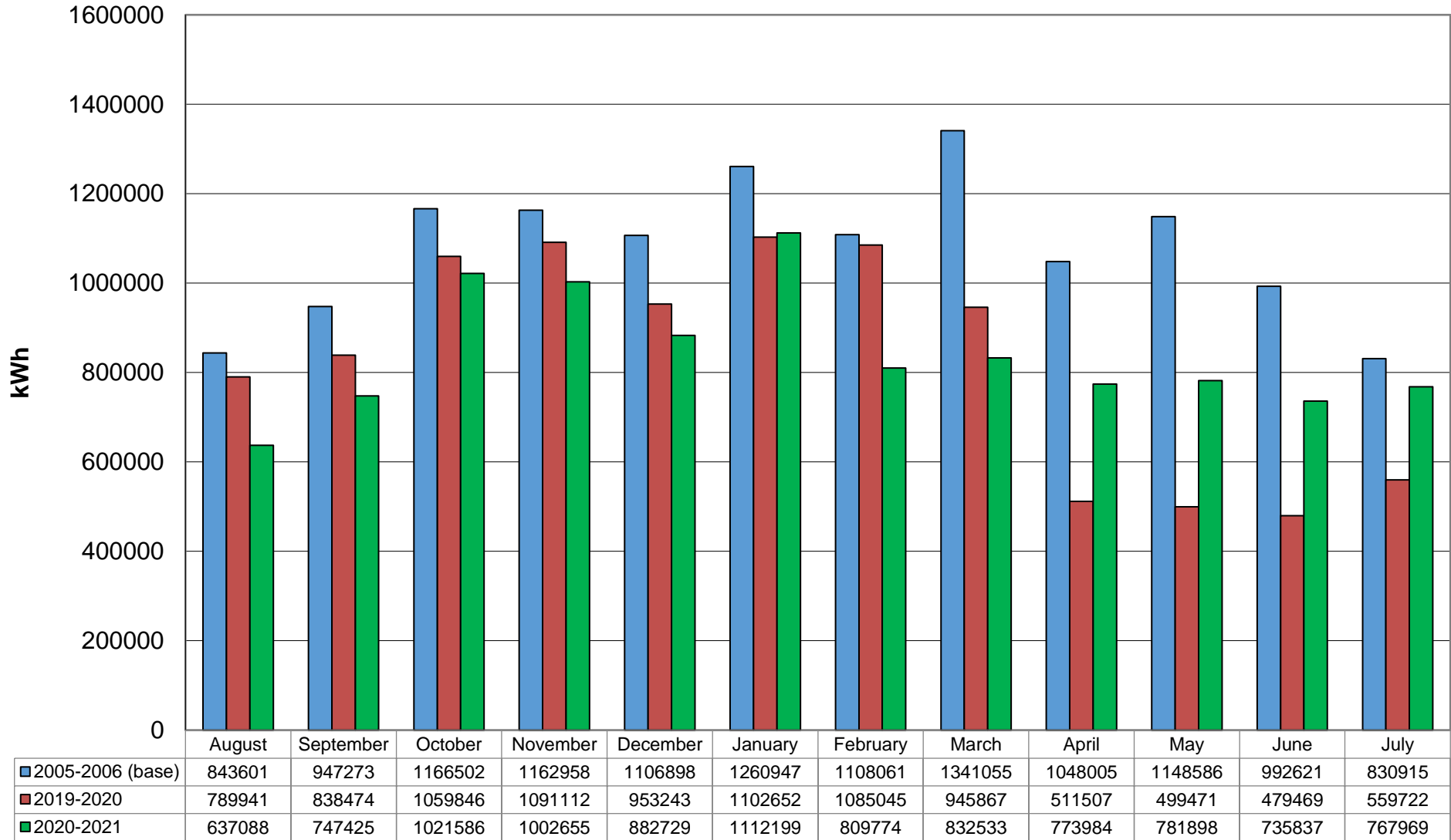
## Electricity spend vs Budget



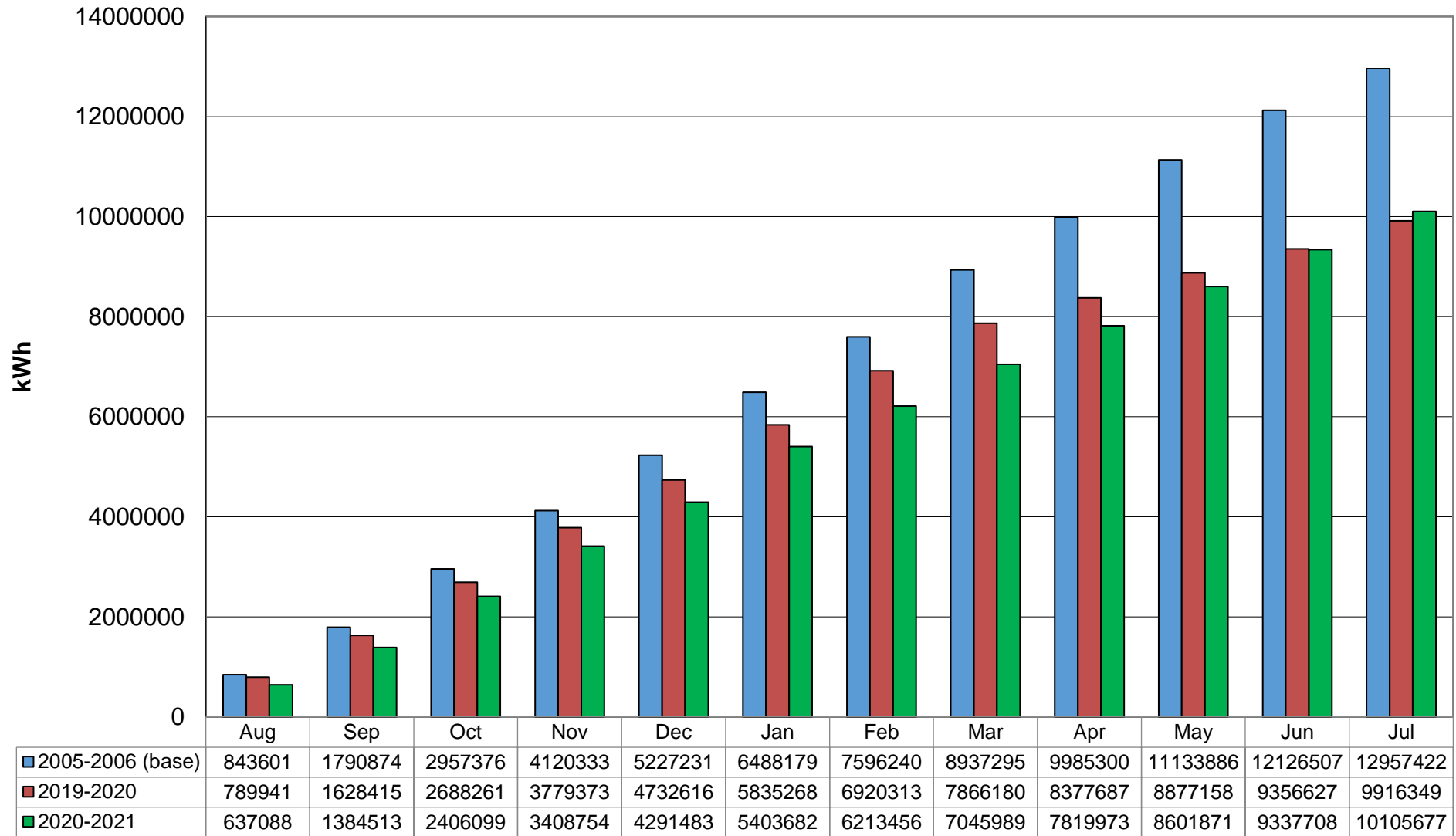
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Adjusted Budget	£0	£122,858	£254,062	£386,502	£519,236	£667,812	£857,551	£1,041,633	£1,239,087	£1,407,733	£1,577,560	£1,716,518	£1,850,825
Actual spend	£0	£102,583	£222,846	£390,698	£553,197	£703,968	£856,101	£991,077	£1,103,272	£1,229,300	£1,361,613	£1,492,209	£1,626,445



## Electricity Consumption Per Month

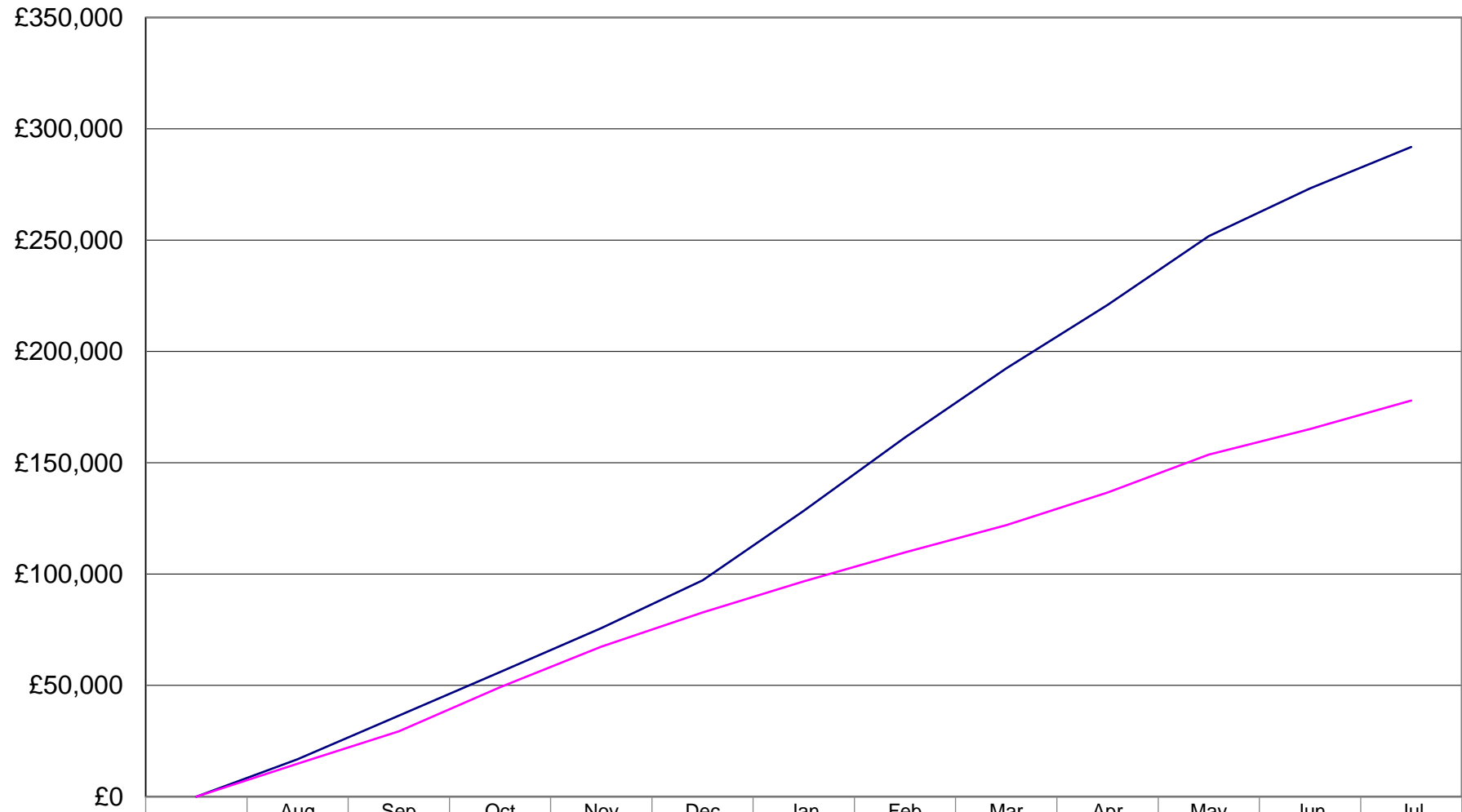


## Electricity Consumption Cumulative



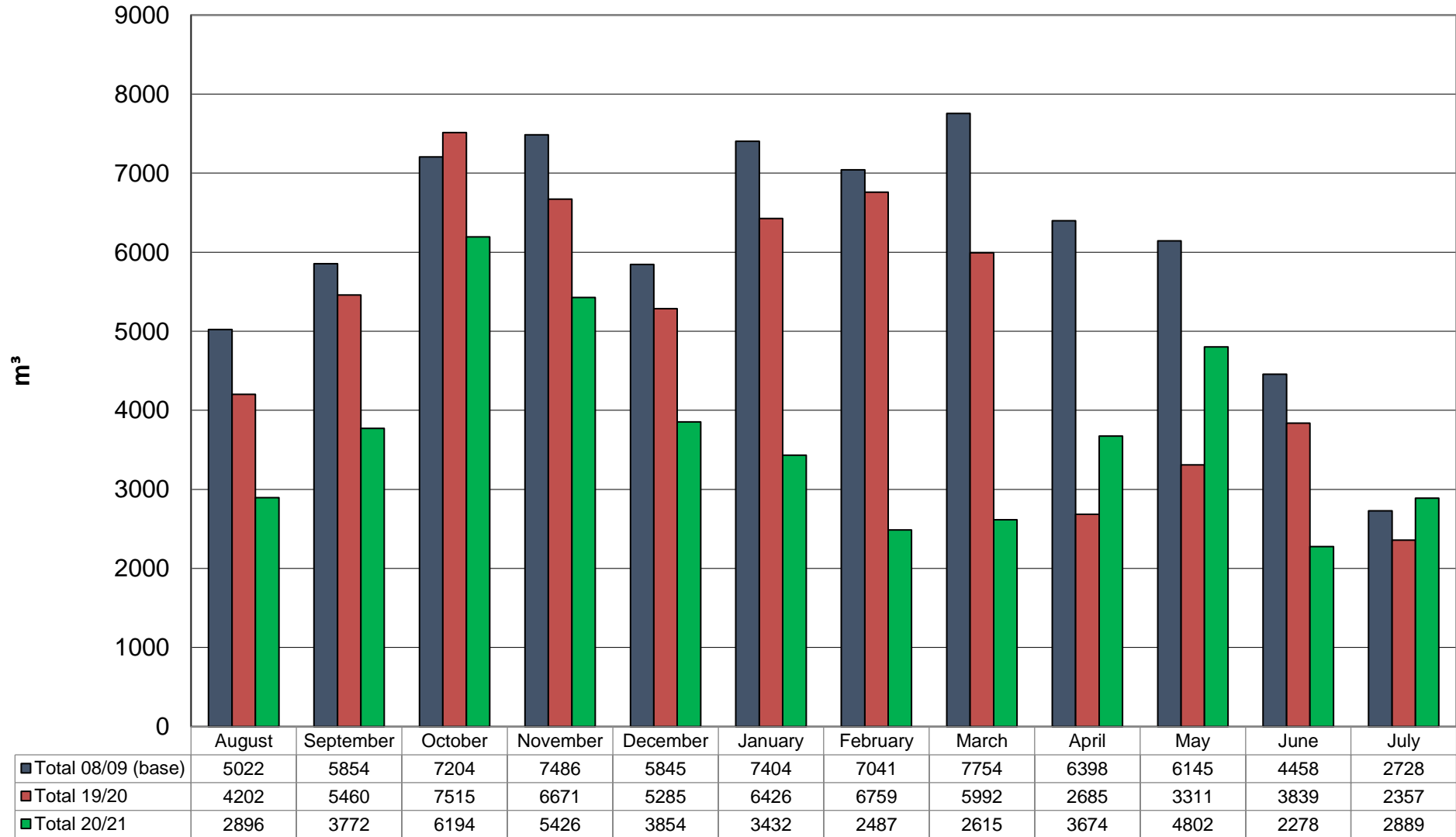


## Water spend vs budget



		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Adjusted Budget	£0	£16,846	£36,348	£56,004	£75,707	£97,185	£128,368	£161,392	£192,405	£220,932	£251,742	£273,237	£291,842
Actual spend	£0	£14,786	£29,402	£49,203	£67,384	£82,739	£96,733	£109,732	£122,008	£136,578	£153,640	£165,085	£177,944

## Water Consumption Per Month



# Water Cumulative

