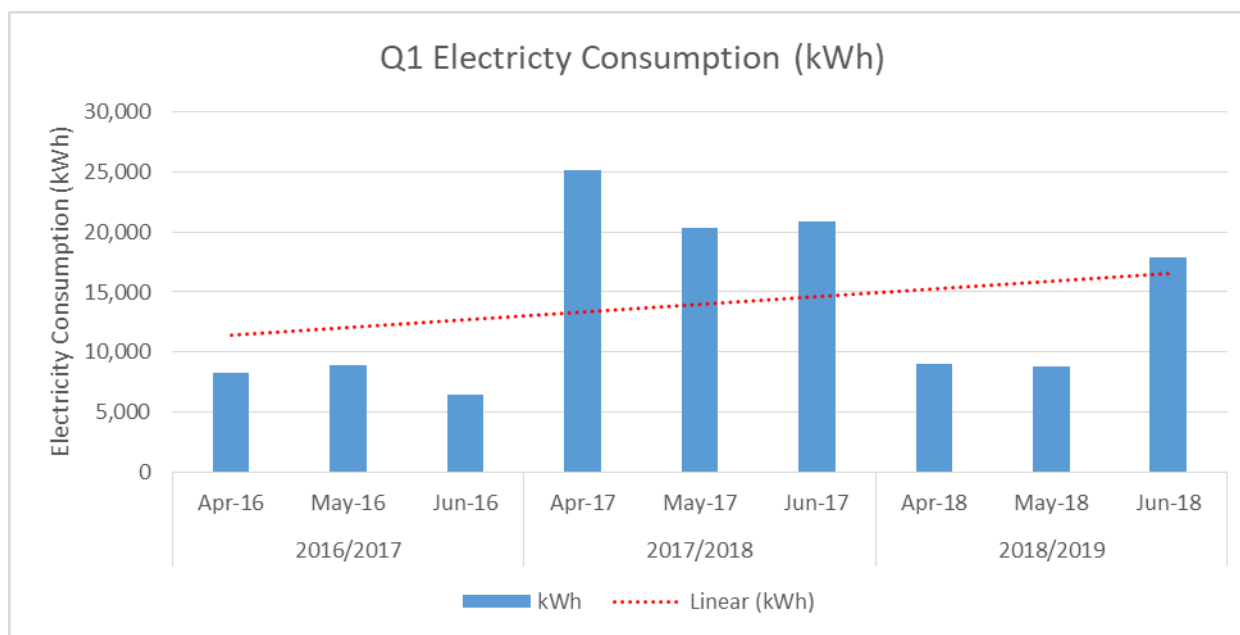
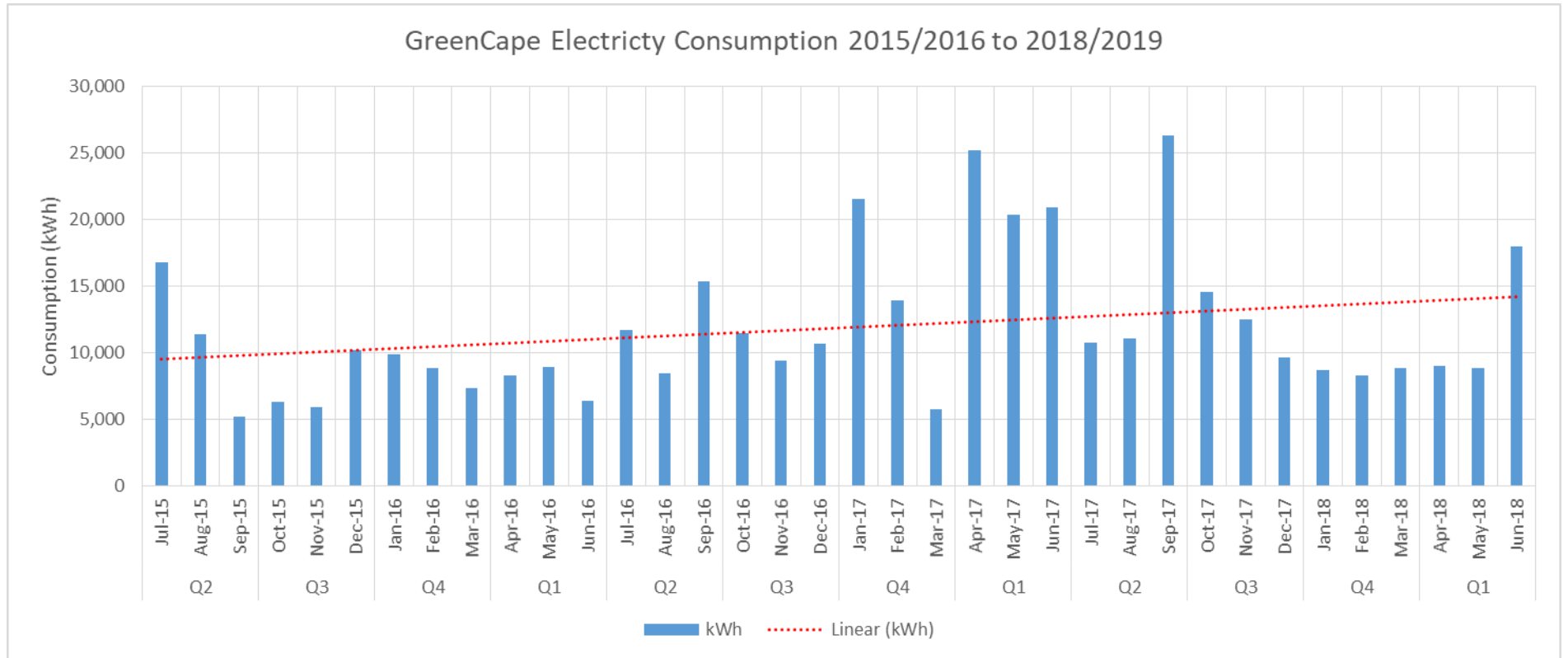


Energy@Work

July 2018

This Energy@Work is focused on Q1 of 2018/2019 (April 2018 to June 2018)

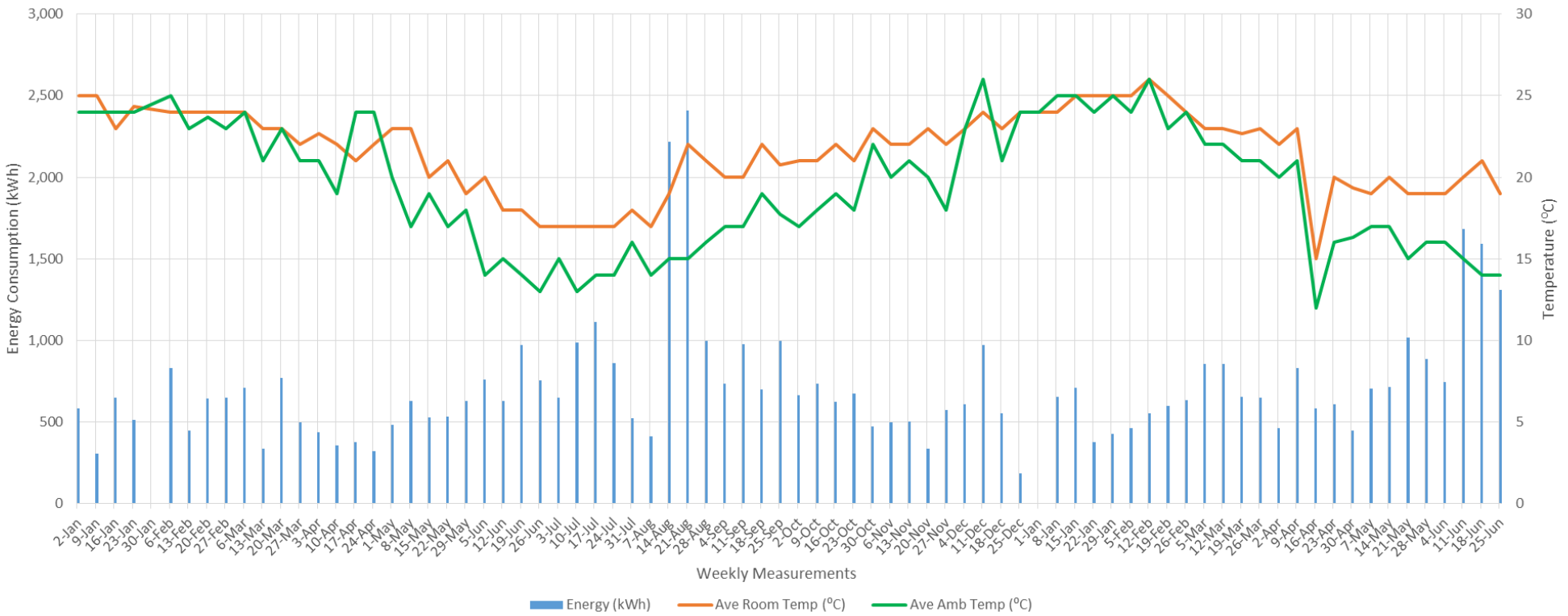


Energy consumption for Q1 (2018/2019) matches consumption of Q1 (2017/2018). However, more energy was consumed in June 2018. This is due to the HVAC unit operating for longer hours compared to the previous year (See next page)

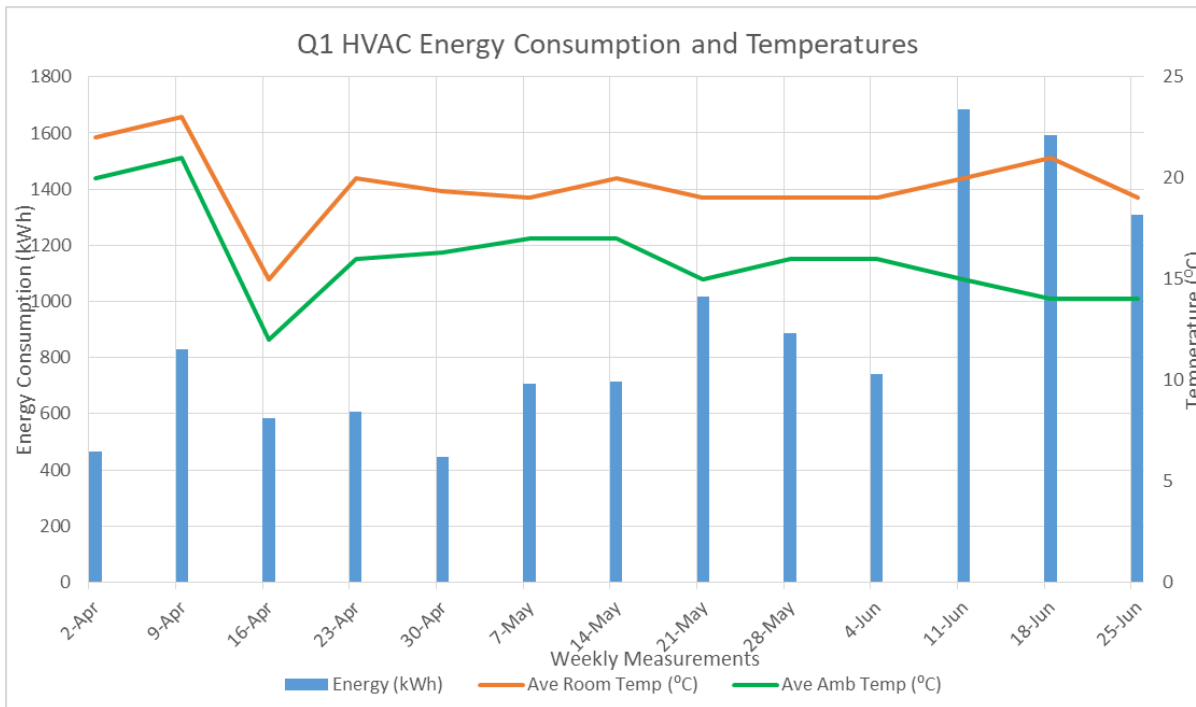
Energy@Work

July 2018

HVAC Energy Consumption and Temperatures 2017/2018



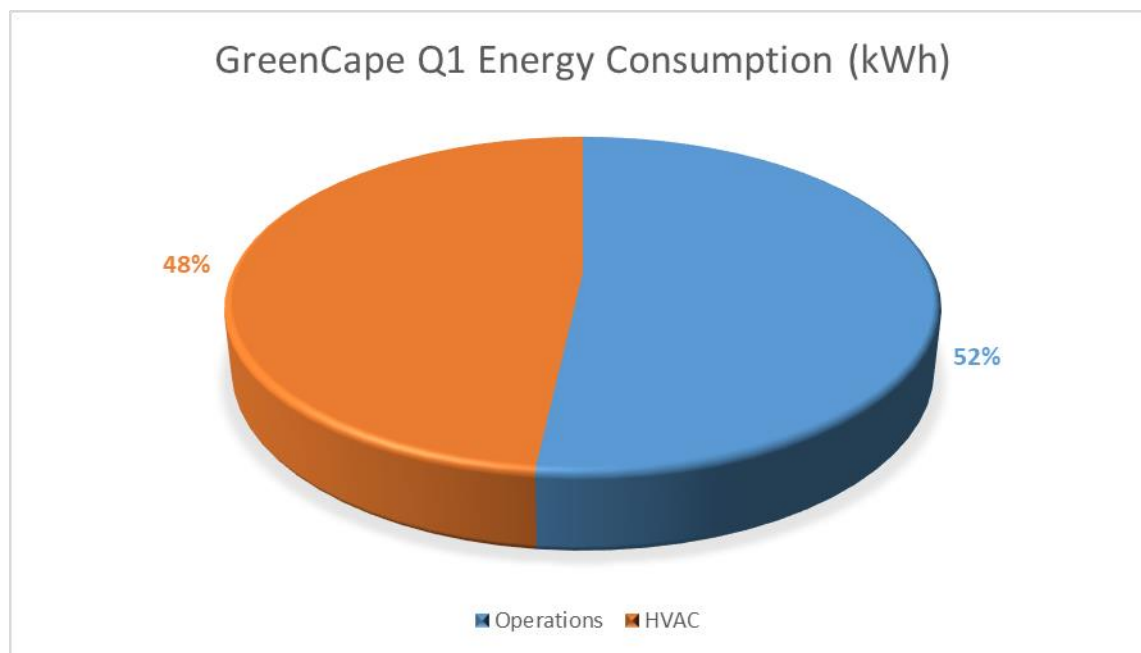
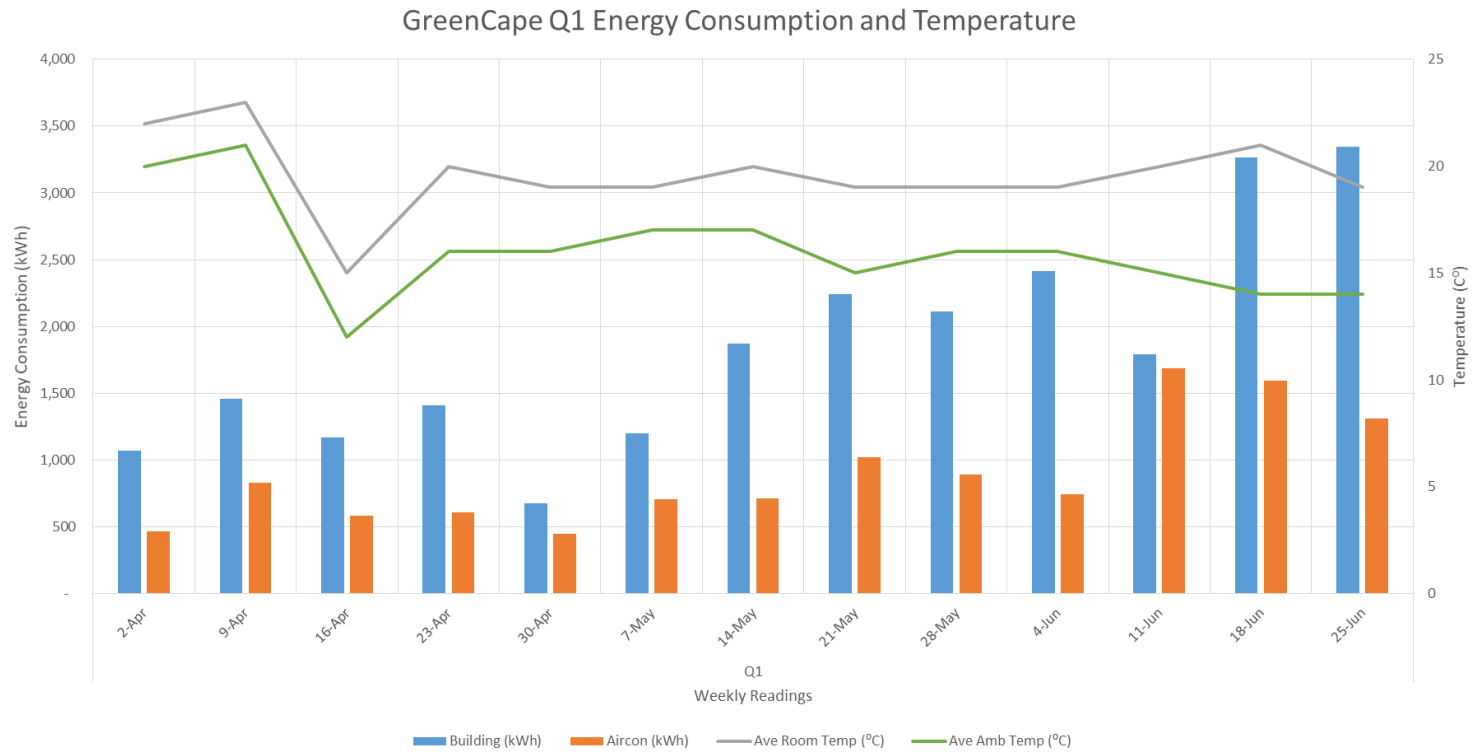
Q1 HVAC Energy Consumption and Temperatures



- The room temperature is not a constant temperature – follows ambient temperature
- The seasonal temperature trend is clearly visible, but the energy consumption does not follow the seasonal trends (hotter days should consume more energy)
- Energy consumption for Q1 (2018/2019) matches consumption of Q1 (2017/2018). However, more energy was consumed in June 2018. This is due to the HVAC unit operating for longer hours compared to the previous year.

Energy@Work

July 2018



48% of Q1's electricity consumption was from only the HVAC. The remaining 52% was consumption from everything else (lighting, computers, heaters, hydroboil, hot water geyser etc)

Energy@Work

July 2018



Inputs

| | | |
|------------------------------------|---------|--------------------------|
| Total Energy Usage | 146,112 | kWh/annum |
| Total Mains Electricity Equivalent | 146,112 | kWh/annum |
| Total Emissions | 175,334 | kgCO ₂ /annum |

Results

| | | |
|-------------------------------------|--------|---------------------------|
| Energy Intensity | 176.04 | kWh/m ² /annum |
| Benchmark Building Energy Intensity | 238.96 | kWh/m ² /annum |

| | | |
|------------------------------------|--------|--|
| Total Emissions | 211.25 | kgCO ₂ /m ² /annum |
| Benchmark Building Total Emissions | 286.76 | kgCO ₂ /m ² /annum |

Points towards Green Star SA rating** 9

| 1 | 2 | 3 | 4 | 5 |
|----------------|----------------|----------------|----------------|---|
| 79-100% | 57-78% | 34-56% | 12-33% | INDUSTRY AVERAGE |
| LESS EFFICIENT | LESS EFFICIENT | LESS EFFICIENT | LESS EFFICIENT | |
| 6 | 7 | 8 | 9 | 10 |
| 12-33% | 34-56% | 57-78% | 79-99% | 100% |
| MORE EFFICIENT | MORE EFFICIENT | MORE EFFICIENT | MORE EFFICIENT | MORE EFFICIENT (PER ENERGY PILLARS & SETTING) |

**indicates the number of energy points achieved if the project were to target a Green Star SA - Existing Building Performance rating

| Year | Qtr | Consumption (kWh) | kWh/sqm | kWh/Pax |
|----------------|-----|-------------------|--------------|---------------|
| 2015/2016 | Q2 | 33 354 | 40.19 | 680.69 |
| | Q3 | 22 341 | 26.92 | 455.95 |
| | Q4 | 26 044 | 31.38 | 531.51 |
| 2016/2017 | Q1 | 23 642 | 28.48 | 482.49 |
| | Q2 | 35 381 | 42.63 | 722.06 |
| | Q3 | 31 485 | 37.93 | 642.56 |
| | Q4 | 41 175 | 49.61 | 840.31 |
| 2017/2018 | Q1 | 66 372 | 79.97 | 1 354.52 |
| | Q2 | 48 032 | 57.87 | 980.25 |
| | Q3 | 36 640 | 44.14 | 747.76 |
| | Q4 | 25 760 | 31.04 | 525.71 |
| 2018/2019 | Q1 | 35 680 | 42.99 | 728.16 |
| Average | | 35 492 | 42.76 | 724.33 |

Assumptions:

- Gross Lettable Area (GLA) = 830 sqm
- Occupancy hours (45 hours per week)
- Number of occupants = 49

Results:

- Average South African quarterly consumption = **55.75 kwh/sqm**
- For Q1 (2018/2019) GC is **12.76 kWh/sqm less** than the South African average