

CARBON FOOTPRINT REDUCTION

Estimated total renewable yield:

529,037 kWh/yr Onsite BIPV + Offsite PV (Solar Leasing within DC site)

Each year this can:



Power approximately **122** 4-room HDB flats¹



Avoid approximately **215,847** kgC0₂ emissions²



Be equivalent to planting **8,633**

trees³

Onsite BIPV

Location : North-West Façade & Roof System Capacity : 207.8kWp

Offsite PV (Solar Leasing)

Location : Dulwich College Junior School, Performing Arts, Senior School, Gym System Capacity : 301.9kWp

Embodied Carbon: 16% savings from GM2021 reference SGBC 3-Tick concrete (CUI 0.32) Structural Steel 59.5% CFA

Average Monthly Household Electricity Consumption by Dwelling Type Elergy Market Authority Electricity Grid Emission Factor https://ecotree.green/

GM2021 PLATINUM-ZEB TARGET SCORING

Dulwich College (Phase 3) targets to achieve Platinum-Zero Energy Building rating with Health & Wellbeing, Intelligence & Maintainability Badge.

Energy Savings (Pathway 3): 102.58%

Sustainable Sections Target Scoring: 41.52 points

10.27 pts

ADGE

m

Maintainability



Energy Use Intensity (kWh/m²/yr)

ENERGY EFFICIENCY

	Without Renewables	With Renewables (BIPV + PV)
Overall Energy Savings	36.05% (286.7 MWh/year)	102.58%
Energy Use Index (EUI)	77.07 kWh/m²/yr (56% lower than the average EUI of private schools in 2021 ¹)	-3.11 kWh/m²/yr





1: BCA Building Energy Benchmarking Report 2021