

Tzannes + BlightRayner

SSDA RtS Additional Sun Studies

2b-6 Hassall Street
Parramatta

Charter Hall   **WESTERN SYDNEY**
UNIVERSITY

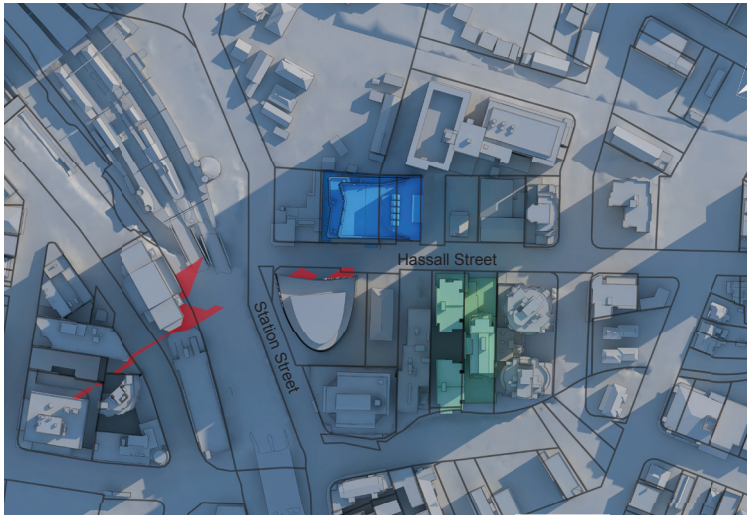
Prepared for

Charter Hall and Western Sydney University

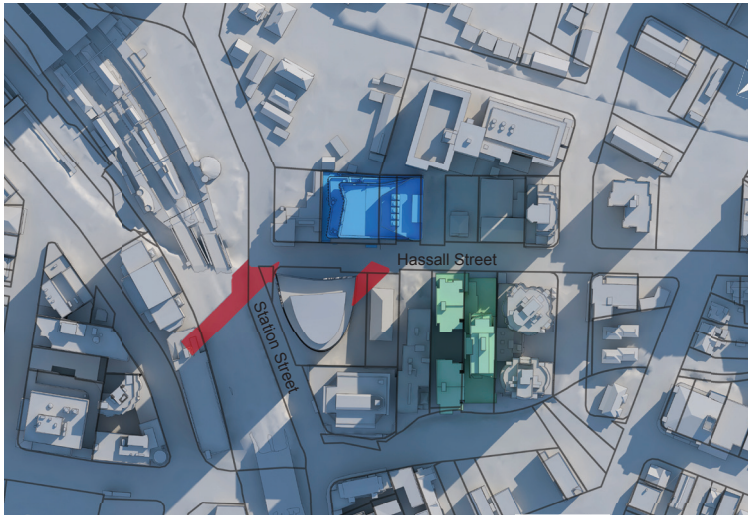
October 2019

Plan Shadow Diagram
Winter 21 June

- Proposed shadow
- Existing shadow
- 6 Hassell Street
- 9 and 11 Hassell Street
- Cadastre overlay



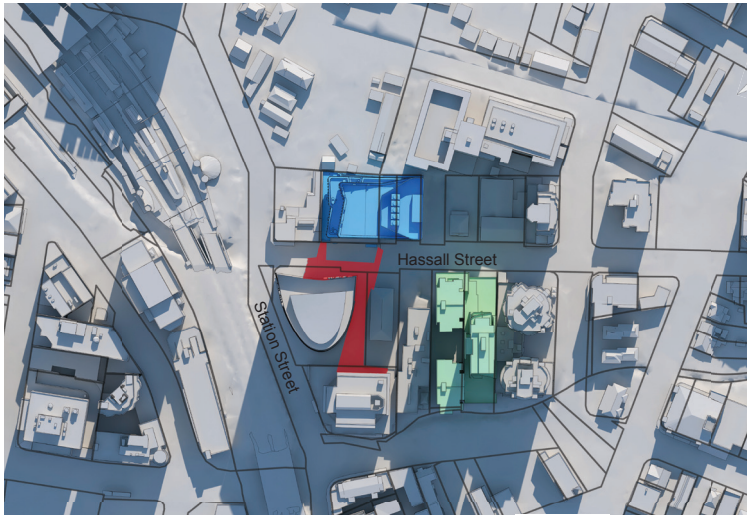
9am



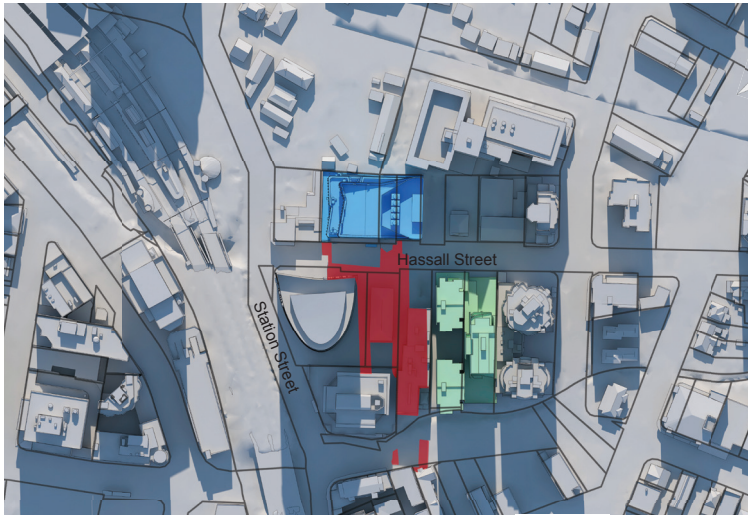
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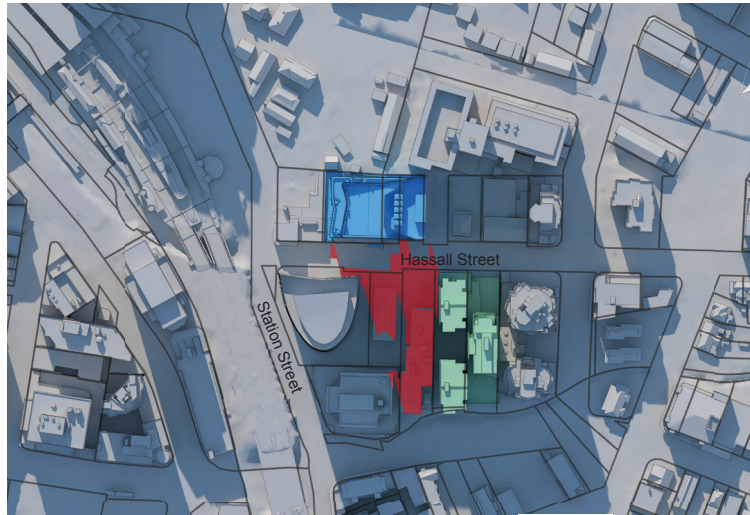
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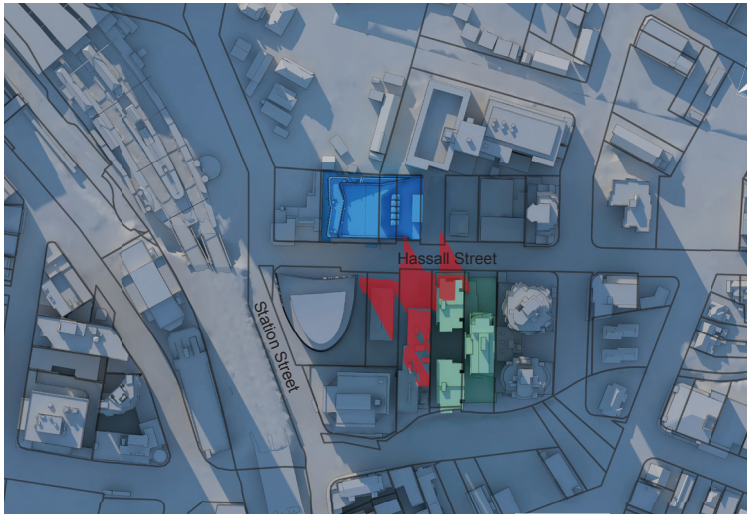
12pm



1pm



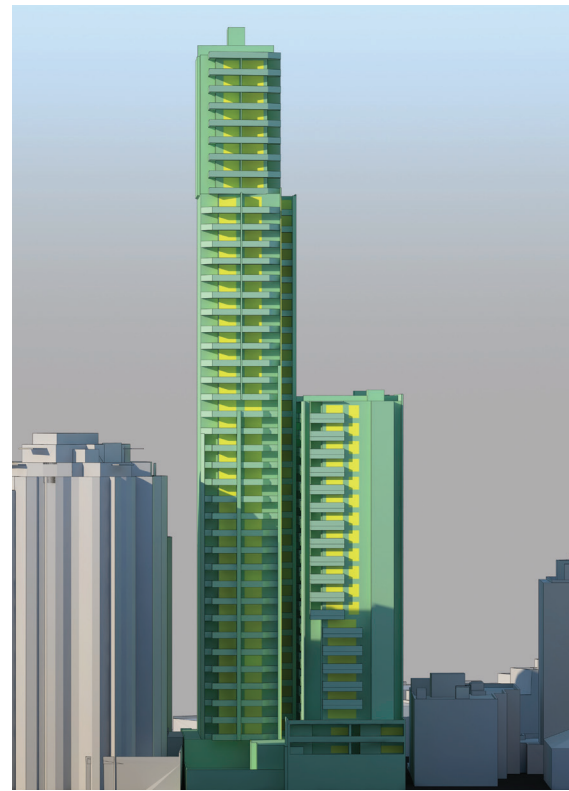
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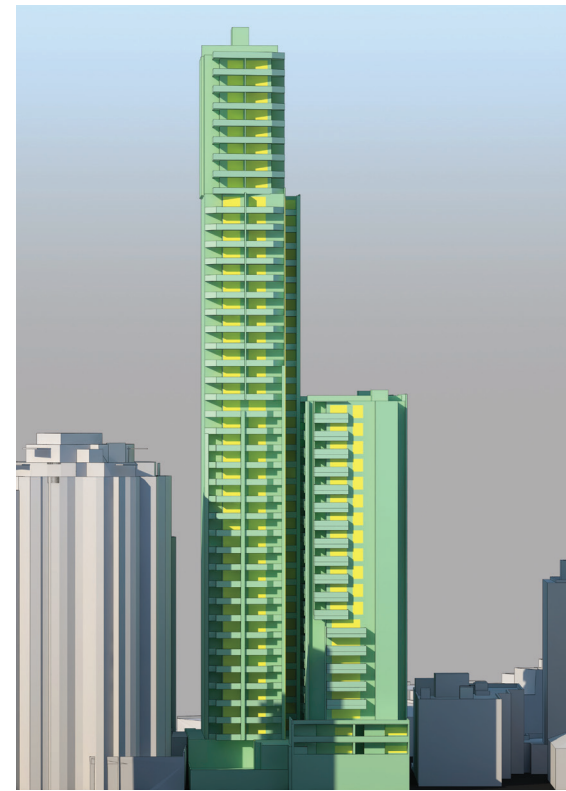
3pm

*North Elevation Shadow Diagram
11 and 9 Hassall Street (tower A)
Winter 21 June*

- Proposed shadow
- Existing shadow
- Living room windows
- 9 and 11 Hassell Street



9am



10am



11am



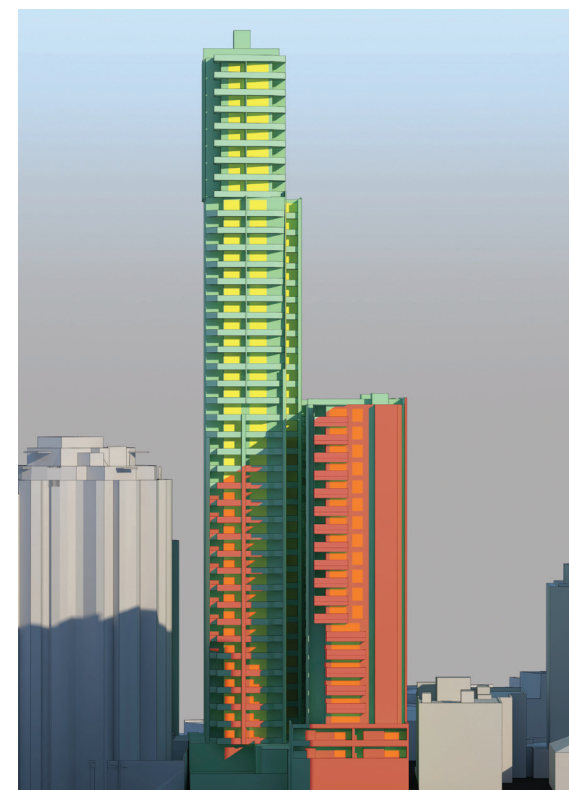
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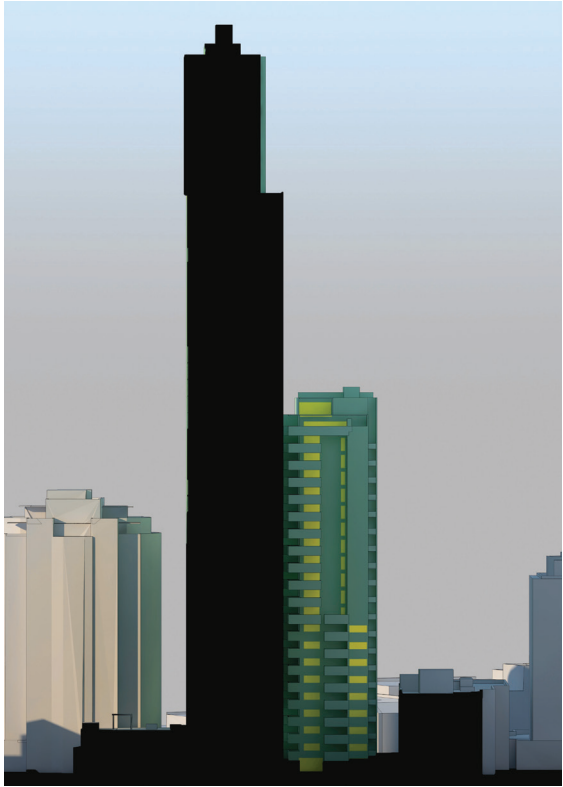
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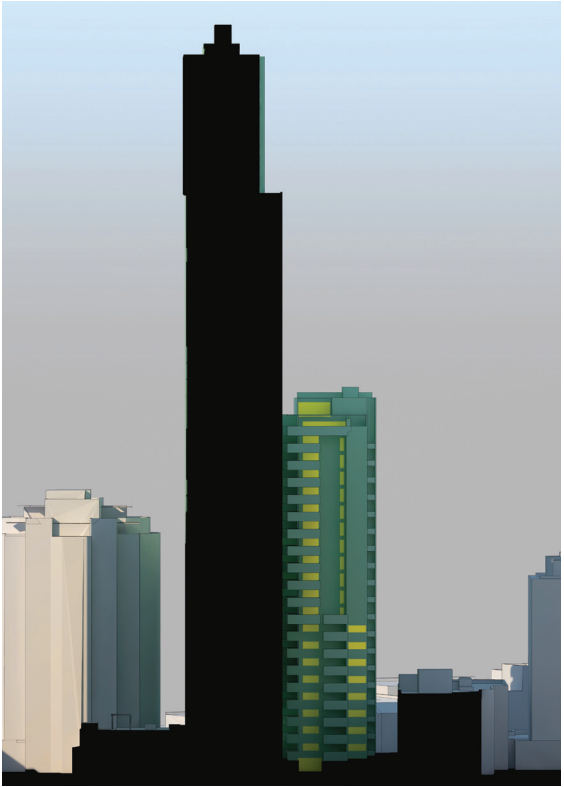
3pm

North Elevation Shadow Diagram
9 Hassall Street (tower B)
Winter 21 June

- Proposed shadow
- Existing shadow
- Living room windows
- 9 Hassall Street



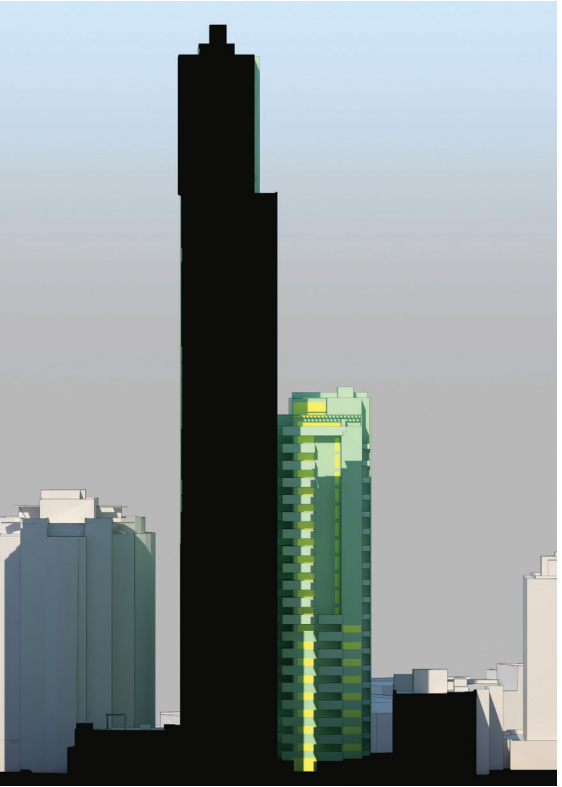
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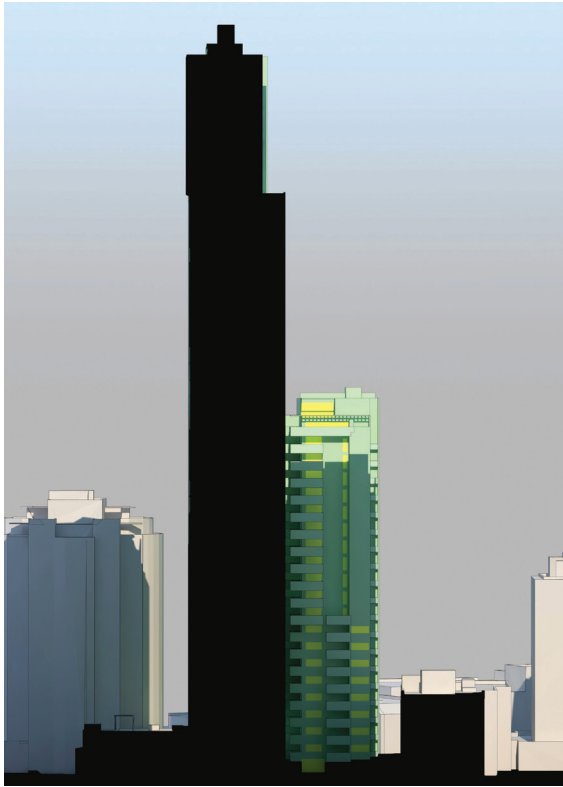
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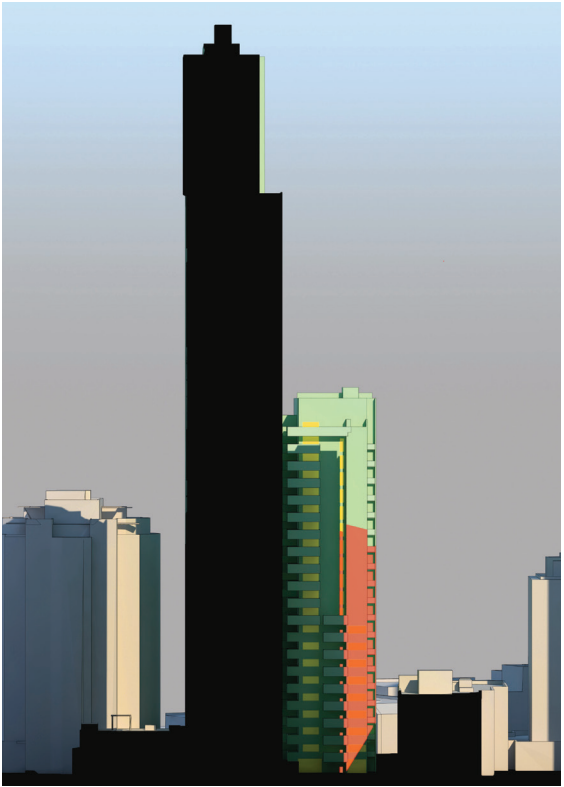
11am



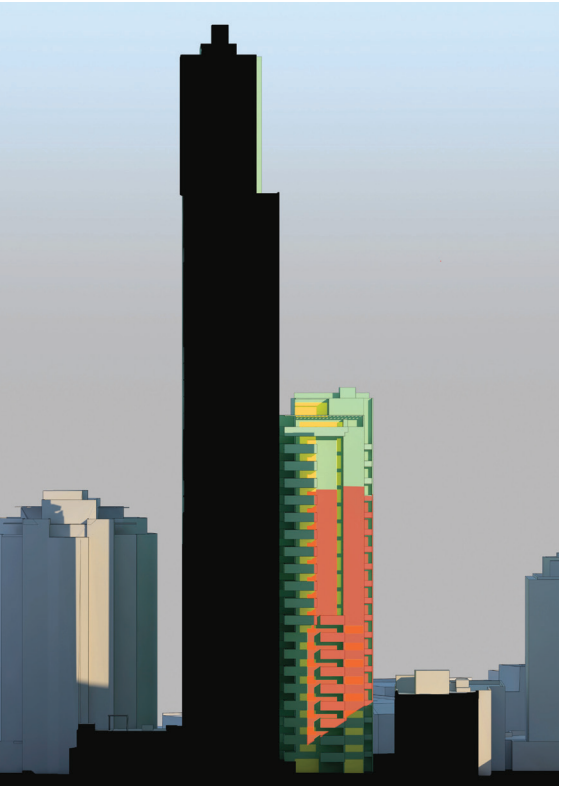
12pm



1pm



2pm

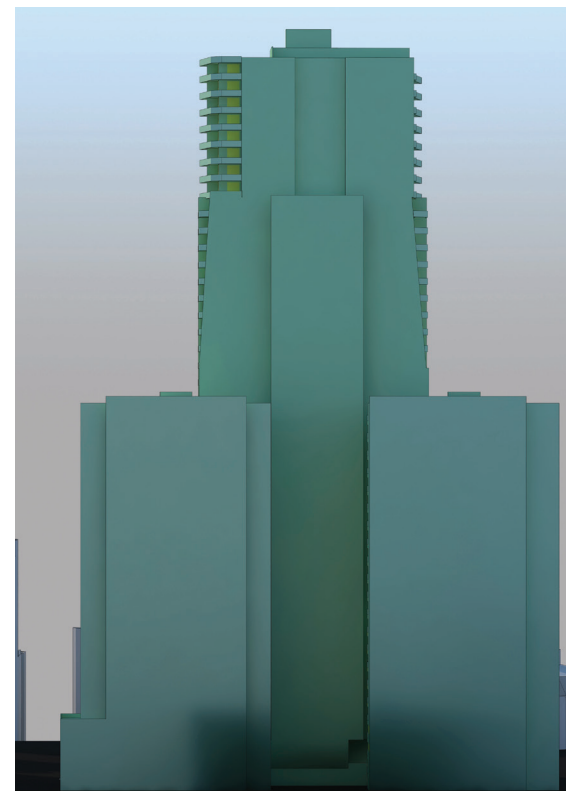


3pm

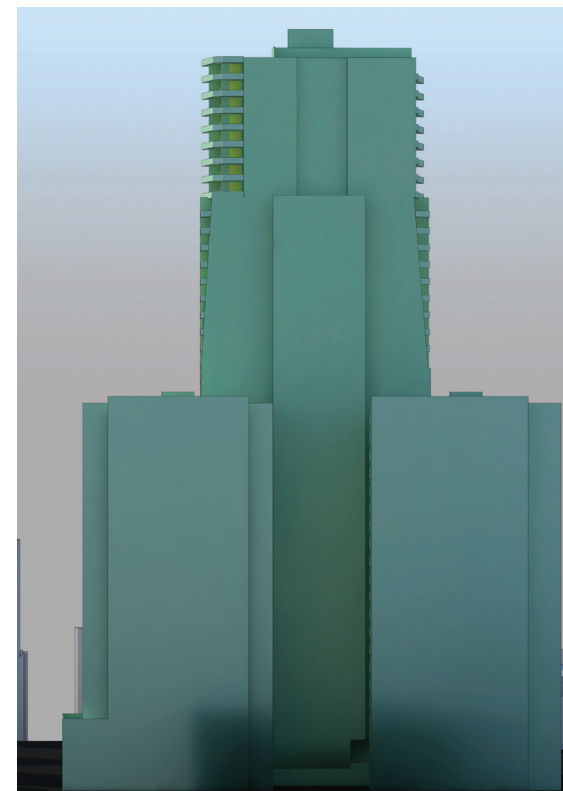
SSDA RtS
Additional Sun Studies

*West Elevation Shadow Diagram
9 and 11 Hassall Street
Winter 21 June*

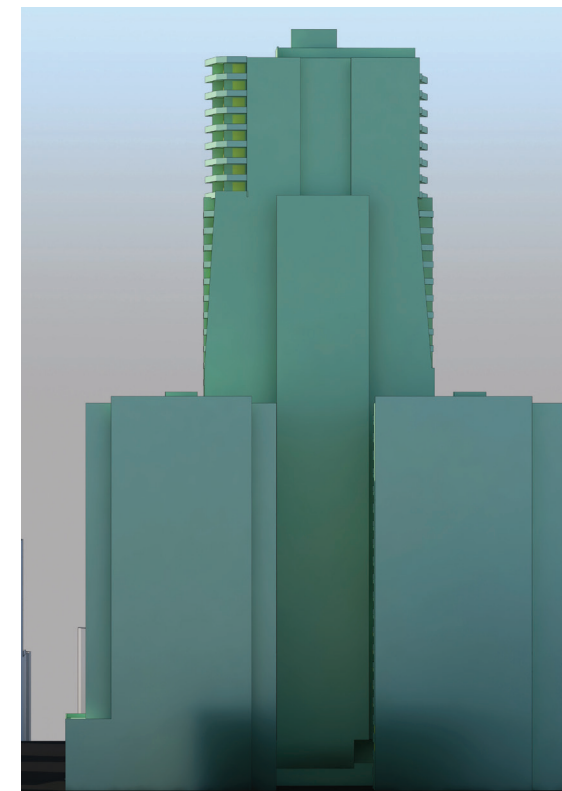
- Proposed shadow
- Existing shadow
- Living room windows
- 9 and 11 Hassell Street



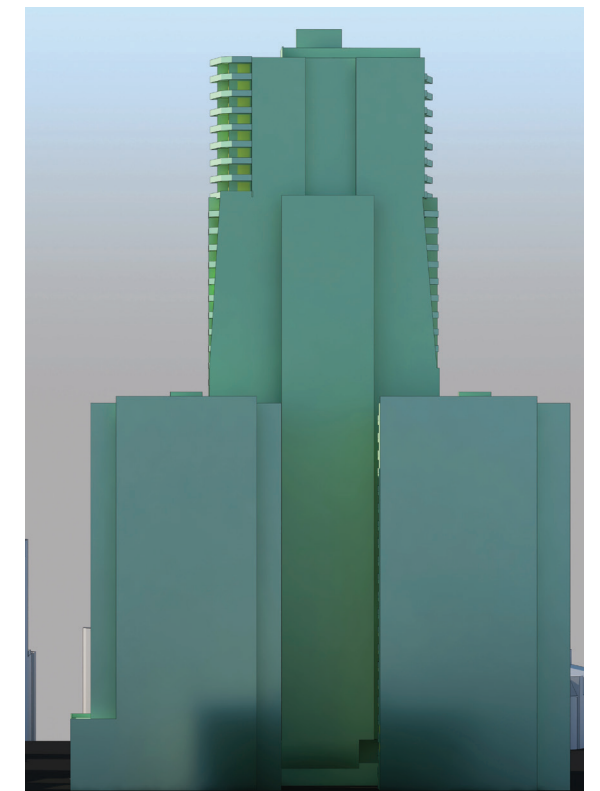
9am



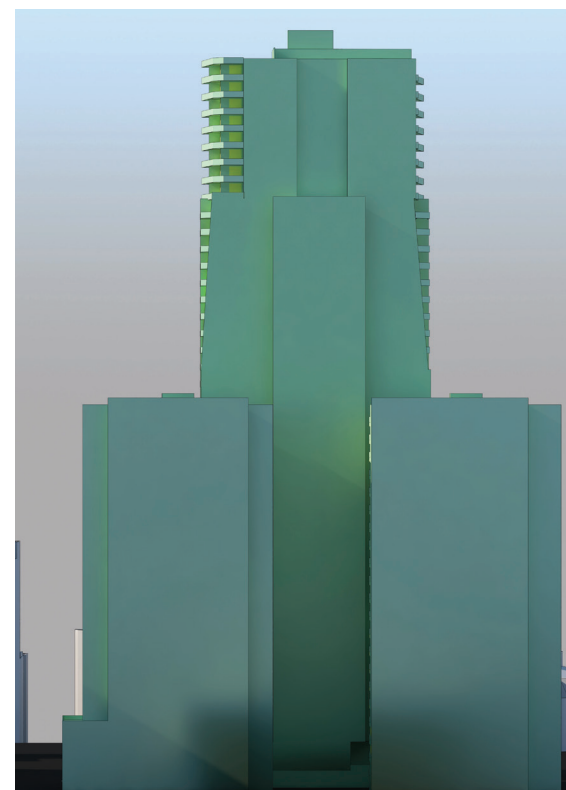
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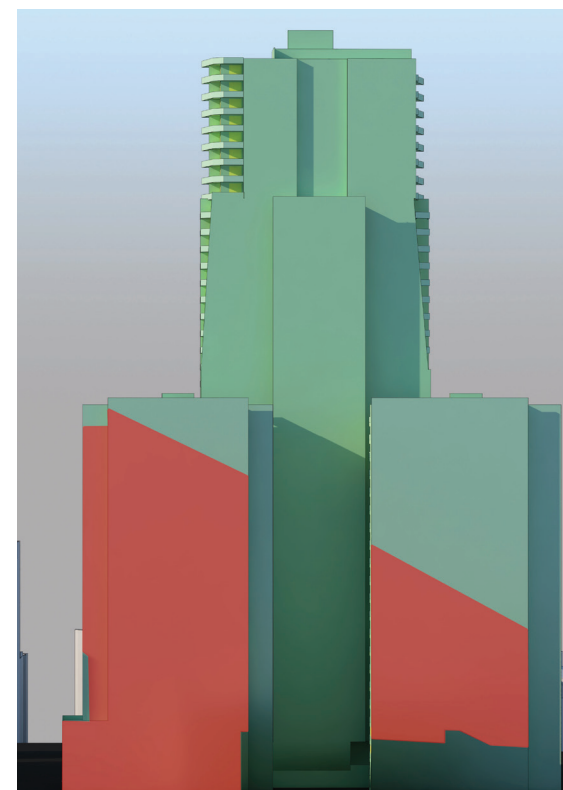
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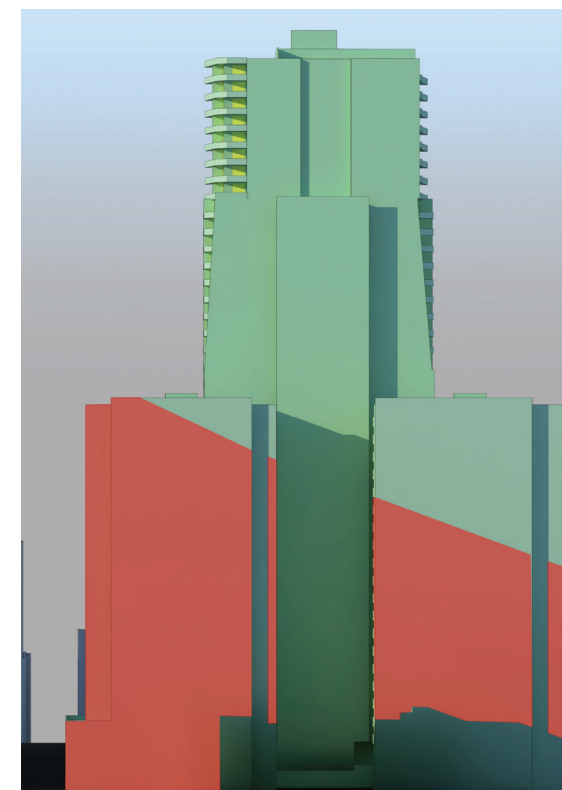
12pm



1pm



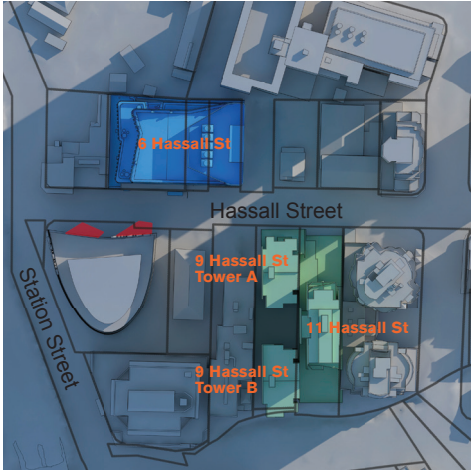
2pm



3pm

Existing Solar Access Schedule
9 Hassall Street Tower A
Winter 21 June

- Solar performance modeled by Arterra Interactive due to apartment having a primarily northern or western orientation (i.e. potentially impacted by the 6 Hassall Street Proposal)
- Solar performance derived from DA assessment due to apartment having a primarily southern or eastern orientation (i.e. unable to be impacted by the 6 Hassall Street Proposal)



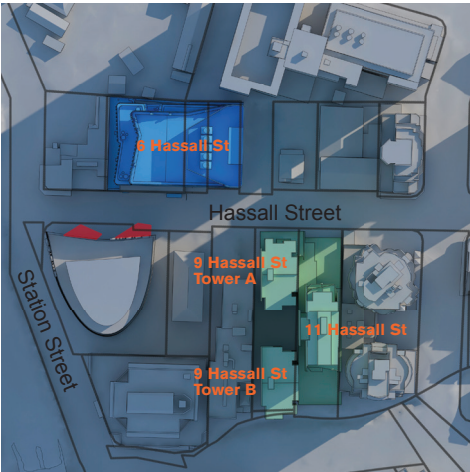
UNIT NO	HOURS OF SUNLIGHT						RECEIVES MIN 2 HOURS OF SUNLIGHT
	9AM -10 AM	10AM - 11AM	11AM - 12AM	12PM - 1PM	1PM - 2PM	2PM - 3PM	
A1 - 01	0.5	1	1	0	0	0	☑
A1 - 02	0	1	1	1	0	0	☑
A1 - 03	0	0	0	0	0	0	☐
A1 - 04	0	0	0	0	0	0	☐
A1 - 05	0	0	0	0	0	0	☐
A1 - 06	0	0	0	0	0	0	☐
A2 - 01	0.5	1	1	1	0	0	☑
A2 - 02	0	1	1	1	0	0	☑
A2 - 03	0	0	0	0	0	0	☐
A2 - 04	0	0	0	0	0	0	☐
A2 - 05	0	0	0	0	0	0	☐
A2 - 06	0	0	0	0	0	0	☐
A3 - 01	0	1	1	1	1	1	☑
A3 - 02	1	1	1	0	0	0	☑
A3 - 03	1	1	1	0	0	0	☑
A3 - 04	0	0	0	0	0	0	☐
A3 - 05	0	0	0	0	0	0	☐
A4 - 01	0	1	1	1	1	1	☑
A4 - 02	1	1	1	0	0	0	☑
A4 - 03	1	1	1	0	0	0	☑
A4 - 04	0	0	0	0	0	0	☐
A4 - 05	0	0	0	0	0	0	☐
A5 - 01	0	1	1	1	1	1	☑
A5 - 02	1	1	1	0	0	0	☑
A5 - 03	1	1	1	0	0	0	☑
A5 - 04	0	0	0	0	0	0	☐
A5 - 05	0	0	0	0	0	0	☐
A6 - 01	0	1	1	1	1	1	☑
A6 - 02	1	1	1	0	0	0	☑
A6 - 03	1	1	1	0	0	0	☑
A6 - 04	0	0	0	0	0	0	☐
A6 - 05	0	0	0	0	0	0	☐
A7 - 01	0	1	1	1	1	0	☑
A7 - 02	1	1	1	0	0	0	☑
A7 - 03	1	1	1	0	0	0	☑
A7 - 04	0	0	0	0	0	0	☐
A7 - 05	0	0	0	0	0	0	☐
A8 - 01	0.5	1	1	1	1	1	☑
A8 - 02	1	1	1	0	0	0	☑
A8 - 03	1	1	1	0	0	0	☑
A8 - 04	0	0	0	0	0	0	☐
A9 - 01	1	1	1	1	1	1	☑
A9 - 02	1	1	1	0	0	0	☑
A9 - 03	1	1	1	0	0	0	☑
A9 - 04	0	0	0	0	0	0	☐
A10 - 01	1	1	1	1	1	1	☑
A10 - 02	1	1	1	0	0	0	☑
A10 - 03	1	1	1	0	0	0	☑
A10 - 04	0	0	0	0	0	0	☐

A11 - 01	1	1	1	1	1	1	☑
A11 - 02	1	1	1	0	0	0	☑
A11 - 03	1	1	1	0	0	0	☑
A11 - 04	0	0	0	0	0	0	☐
A12 - 01	1	1	1	1	1	1	☑
A12 - 02	1	1	1	0	0	0	☑
A12 - 03	1	1	1	0	0	0	☑
A12 - 04	0	0	0	0	0	0	☐
A13 - 01	1	1	1	1	1	1	☑
A13 - 02	1	1	1	0	0	0	☑
A13 - 03	1	1	1	0	0	0	☑
A13 - 04	0	0	0	0	0	0	☐
A14 - 01	1	1	1	1	1	1	☑
A14 - 02	1	1	1	0	0	0	☑
A14 - 03	1	1	1	0	0	0	☑
A14 - 04	0	0	0	0	0	0	☐
A15 - 01	1	1	1	1	1	1	☑
A15 - 02	1	1	1	0	0	0	☑
A15 - 03	1	1	1	0	0	0	☑
A15 - 04	0	0	0	0	0	0	☐
A16 - 01	1	1	1	1	1	1	☑
A16 - 02	1	1	1	0	0	0	☑
A16 - 03	1	1	1	0	0	0	☑
A16 - 04	0	0	0	0	0	0	☐
A17 - 01	1	1	1	1	1	1	☑
A17 - 02	1	1	1	0	0	0	☑
A17 - 03	1	1	1	0	0	0	☑
A17 - 04	0	0	0	0	0	0	☐
A18 - 01	1	1	1	1	1	1	☑
A18 - 02	1	1	1	0	0	0	☑
A18 - 03	1	1	1	0	0	0	☑
A18 - 04	0	0	0	0	0	0	☐
A19 - 01	1	1	1	1	1	1	☑
A19 - 02	1	1	1	0	0	0	☑
A19 - 03	1	1	1	0	0	0	☑
A19 - 04	0	0	0	0	0	0	☐
A20 - 01	1	1	1	1	1	1	☑
A20 - 02	1	1	1	0	0	0	☑
A20 - 03	0	0	0	0	0	0	☐

Total number of Tower A apartments: 90
Total number of apartments with minimum 2 hours solar: 57
Existing Tower A Performance: 63.3%

Existing Solar Access Schedule
9 Hassall Street Tower B
Winter 21 June

- Solar performance modeled by Arterra Interactive due to apartment having a primarily northern or western orientation (i.e. potentially impacted by the 6 Hassall Street Proposal)
- Solar performance derived from DA assessment due to apartment having a primarily southern or eastern orientation (i.e. unable to be impacted by the 6 Hassall Street Proposal)



UNIT NO	HOURS OF SUNLIGHT						RECEIVES MIN 2 HOURS OF SUNLIGHT
	9AM - 10 AM	10AM - 11AM	11AM - 12AM	12PM - 1PM	1PM - 2PM	2PM - 3PM	
A1 - 07	0	0	0	0.5	0	0	
A1 - 08	0	0	0	0.5	0.5	0	
A1 - 09	1	1	1	0	0	0	
A1 - 10	1	1	1	0	0	0	
A1 - 11	0	0	0	0	0	0	
A1 - 12	0	0	0	0	0	0	
A2 - 07	0	0	0	0.5	0	0.5	
A2 - 08	0	0	0	0.5	0.5	0	
A2 - 09	1	1	1	0	0	0	
A2 - 10	1	1	1	0	0	0	
A2 - 11	0	0	0	0	0	0	
A2 - 12	0	0	0	0	0	0	
A3 - 06	0	0	0	0.5	0	0.5	
A3 - 07	0	0	0	0.5	0.5	0	
A3 - 08	1	1	1	0	0	0	
A3 - 09	1	1	1	0	0	0	
A3 - 10	0	0	0	0	0	0	
A3 - 11	0	0	0	0	0	0	
A4 - 06	0	0	0	0.5	0	0.5	
A4 - 07	0	0	0	0.5	0.5	0	
A4 - 08	1	1	1	0	0	0	
A4 - 09	1	1	1	0	0	0	
A4 - 10	0	0	0	0	0	0	
A4 - 11	0	0	0	0	0	0	
A5 - 06	0	0	0	0.5	0	0.5	
A5 - 07	0	0	0	0.5	0.5	0	
A5 - 08	1	1	1	0	0	0	
A5 - 09	1	1	1	0	0	0	
A5 - 10	0	0	0	0	0	0	
A5 - 11	0	0	0	0	0	0	
A6 - 06	0	0	0	0.5	0	0.5	
A6 - 07	0	0	0	0.5	0.5	0	
A6 - 08	1	1	1	0	0	0	
A6 - 09	1	1	1	0	0	0	
A6 - 10	0	0	0	0	0	0	
A6 - 11	0	0	0	0	0	0	
A7 - 06	0	0	0	0	0	0.5	
A7 - 07	0	0	0	0	0.5	0	
A7 - 08	1	1	1	0	0	0	
A7 - 09	1	1	1	0	0	0	
A7 - 10	0	0	0	0	0	0	
A7 - 11	0	0	0	0	0	0	
A8 - 05	0	0	0	0	0	0.5	
A8 - 06	0	0	0	0	0.5	0	
A8 - 07	1	1	1	0	0	0	
A8 - 08	1	1	1	0	0	0	
A8 - 09	0	0	0	0	0	0	
A9 - 05	0	0	0	0	0	1	
A9 - 06	1	1	1	0	0	0	
A9 - 07	1	1	1	0	0	0	
A9 - 08	0	0	0	0	0	0	

A10 - 05	0	0	0	0	0	1	
A10 - 06	1	1	1	0	0	0	
A10 - 07	1	1	1	0	0	0	
A10 - 08	0	0	0	0	0	0	
A11 - 05	0	0	0	0	0	1	
A11 - 06	1	1	1	0	0	0	
A11 - 07	1	1	1	0	0	0	
A11 - 08	0	0	0	0	0	0	
A12 - 05	0	0	0	0	0	1	
A12 - 06	1	1	1	0	0	0	
A12 - 07	1	1	1	0	0	0	
A12 - 08	0	0	0	0	0	0	
A13 - 05	0	0	0	0	0	1	
A13 - 06	1	1	1	0	0	0	
A13 - 07	1	1	1	0	0	0	
A13 - 08	0	0	0	0	0	0	
A14 - 05	0	0	0	0	0	1	
A14 - 06	1	1	1	0	0	0	
A14 - 07	1	1	1	0	0	0	
A14 - 08	0	0	0	0	0	0	
A15 - 05	0	0	0	0	0	1	
A15 - 06	1	1	1	0	0	0	
A15 - 07	1	1	1	0	0	0	
A15 - 08	0	0	0	0	0	0	
A16 - 05	0	0	1	0	0	1	
A16 - 06	1	1	1	0	0	0	
A16 - 07	1	1	1	0	0	0	
A16 - 08	0	0	0	0	0	0	
A17 - 05	0	0	1	1	0	1	
A17 - 06	1	1	1	0	0	0	
A17 - 07	1	1	1	0	0	0	
A17 - 08	0	0	0	0	0	0	
A18 - 05	0	0	1	1	1	1	
A18 - 06	1	1	1	0	0	0	
A18 - 07	1	1	1	0	0	0	
A18 - 08	0	0	0	0	0	0	
A19 - 05	0	0	0	1	1	1	
A19 - 06	1	1	1	0	0	0	

Total number of Tower B apartments: 94
Total number of apartments with minimum 2 hours solar: 44

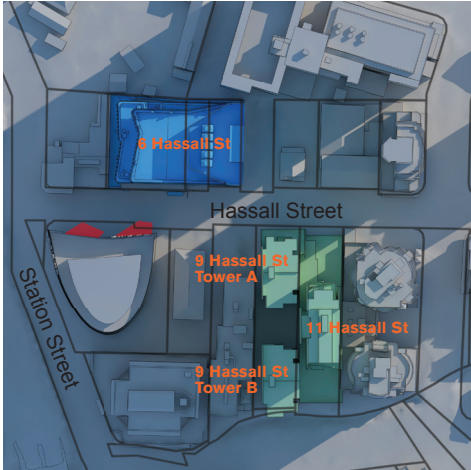
Existing Tower B Performance: 46.8%

Total number of apartments for 9 Hassall Street (Tower A+B): 184
Total number of apartments with minimum 2 hours solar for 9 Hassall Street: 101

Existing Solar Performance for 9 Hassall Street: 54.8%

Proposed Solar Access Schedule
9 Hassall Street Tower A
Winter 21 June

- Solar performance modeled by Arterra Interactive due to apartment having a primarily northern or western orientation (i.e. potentially impacted by the 6 Hassall Street Proposal)
- Solar performance derived from DA assessment due to apartment having a primarily southern or eastern orientation (i.e. unable to be impacted by the 6 Hassall Street Proposal)



UNIT NO	HOURS OF SUNLIGHT						RECEIVES MIN 2 HOURS OF SUNLIGHT
	9AM - 10 AM	10AM - 11AM	11AM - 12AM	12PM - 1PM	1PM - 2PM	2PM - 3PM	
A1 - 01	0.5	1	1	0	0	0	☑
A1 - 02	0	1	1	1	0	0	☑
A1 - 03	0	0	0	0	0	0	☐
A1 - 04	0	0	0	0	0	0	☐
A1 - 05	0	0	0	0	0	0	☐
A1 - 06	0	0	0	0	0	0	☐
A2 - 01	0.5	1	1	1	0	0	☑
A2 - 02	0	1	1	1	0	0	☑
A2 - 03	0	0	0	0	0	0	☐
A2 - 04	0	0	0	0	0	0	☐
A2 - 05	0	0	0	0	0	0	☐
A2 - 06	0	0	0	0	0	0	☐
A3 - 01	0	1	1	1	0.5	0	☑
A3 - 02	1	1	1	0	0	0	☑
A3 - 03	1	1	1	0	0	0	☑
A3 - 04	0	0	0	0	0	0	☐
A3 - 05	0	0	0	0	0	0	☐
A4 - 01	0	1	1	1	0.5	0	☑
A4 - 02	1	1	1	0	0	0	☑
A4 - 03	1	1	1	0	0	0	☑
A4 - 04	0	0	0	0	0	0	☐
A4 - 05	0	0	0	0	0	0	☐
A5 - 01	0	1	1	1	0.5	0	☑
A5 - 02	1	1	1	0	0	0	☑
A5 - 03	1	1	1	0	0	0	☑
A5 - 04	0	0	0	0	0	0	☐
A5 - 05	0	0	0	0	0	0	☐
A6 - 01	0	1	1	1	1	0	☑
A6 - 02	1	1	1	0	0	0	☑
A6 - 03	1	1	1	0	0	0	☑
A6 - 04	0	0	0	0	0	0	☐
A6 - 05	0	0	0	0	0	0	☐
A7 - 01	0	1	1	1	1	0	☑
A7 - 02	1	1	1	0	0	0	☑
A7 - 03	1	1	1	0	0	0	☑
A7 - 04	0	0	0	0	0	0	☐
A7 - 05	0	0	0	0	0	0	☐
A8 - 01	0.5	1	1	1	1	1	☑
A8 - 02	1	1	1	0	0	0	☑
A8 - 03	1	1	1	0	0	0	☑
A8 - 04	0	0	0	0	0	0	☐
A9 - 01	1	1	1	1	1	0	☑
A9 - 02	1	1	1	0	0	0	☑
A9 - 03	1	1	1	0	0	0	☑
A9 - 04	0	0	0	0	0	0	☐
A10 - 01	1	1	1	1	1	0	☑
A10 - 02	1	1	1	0	0	0	☑
A10 - 03	1	1	1	0	0	0	☑
A10 - 04	0	0	0	0	0	0	☐

A11 - 01	1	1	1	1	1	0	☑
A11 - 02	1	1	1	0	0	0	☑
A11 - 03	1	1	1	0	0	0	☑
A11 - 04	0	0	0	0	0	0	☐
A12 - 01	1	1	1	1	1	0	☑
A12 - 02	1	1	1	0	0	0	☑
A12 - 03	1	1	1	0	0	0	☑
A12 - 04	0	0	0	0	0	0	☐
A13 - 01	1	1	1	1	1	0	☑
A13 - 02	1	1	1	0	0	0	☑
A13 - 03	1	1	1	0	0	0	☑
A13 - 04	0	0	0	0	0	0	☐
A14 - 01	1	1	1	1	1	0	☑
A14 - 02	1	1	1	0	0	0	☑
A14 - 03	1	1	1	0	0	0	☑
A14 - 04	0	0	0	0	0	0	☐
A15 - 01	1	1	1	1	1	0	☑
A15 - 02	1	1	1	0	0	0	☑
A15 - 03	1	1	1	0	0	0	☑
A15 - 04	0	0	0	0	0	0	☐
A16 - 01	1	1	1	1	1	0	☑
A16 - 02	1	1	1	0	0	0	☑
A16 - 03	1	1	1	0	0	0	☑
A16 - 04	0	0	0	0	0	0	☐
A17 - 01	1	1	1	1	1	0	☑
A17 - 02	1	1	1	0	0	0	☑
A17 - 03	1	1	1	0	0	0	☑
A17 - 04	0	0	0	0	0	0	☐
A18 - 01	1	1	1	1	1	0.5	☑
A18 - 02	1	1	1	0	0	0	☑
A18 - 03	1	1	1	0	0	0	☑
A18 - 04	0	0	0	0	0	0	☐
A19 - 01	1	1	1	1	1	0.5	☑
A19 - 02	1	1	1	0	0	0	☑
A19 - 03	1	1	1	0	0	0	☑
A19 - 04	0	0	0	0	0	0	☐
A20 - 01	1	1	1	1	1	1	☑
A20 - 02	1	1	1	0	0	0	☑
A20 - 03	0	0	0	0	0	0	☐

Total number of Tower A apartments: 90
Total number of apartments with minimum 2 hours solar: 57
Proposed Tower A Performance: 63.3%

Proposed Solar Access Schedule
9 Hassall Street Tower B
Winter 21 June

- Solar performance modeled by Arterra Interactive due to apartment having a primarily northern or western orientation (i.e. potentially impacted by the 6 Hassall Street Proposal)
- Solar performance derived from DA assessment due to apartment having a primarily southern or eastern orientation (i.e. unable to be impacted by the 6 Hassall Street Proposal)



UNIT NO	HOURS OF SUNLIGHT						RECEIVES MIN 2 HOURS OF SUNLIGHT
	9AM - 10 AM	10AM - 11AM	11AM - 12AM	12PM - 1PM	1PM - 2PM	2PM - 3PM	
A1 - 07	0	0	0	0.5	0	0	
A1 - 08	0	0	0	0.5	0.5	0	
A1 - 09	1	1	1	0	0	0	
A1 - 10	1	1	1	0	0	0	
A1 - 11	0	0	0	0	0	0	
A1 - 12	0	0	0	0	0	0	
A2 - 07	0	0	0	0.5	0	0	
A2 - 08	0	0	0	0.5	0.5	0	
A2 - 09	1	1	1	0	0	0	
A2 - 10	1	1	1	0	0	0	
A2 - 11	0	0	0	0	0	0	
A2 - 12	0	0	0	0	0	0	
A3 - 06	0	0	0	0.5	0	0	
A3 - 07	0	0	0	0.5	0.5	0	
A3 - 08	1	1	1	0	0	0	
A3 - 09	1	1	1	0	0	0	
A3 - 10	0	0	0	0	0	0	
A3 - 11	0	0	0	0	0	0	
A4 - 06	0	0	0	0.5	0	0	
A4 - 07	0	0	0	0.5	0.5	0	
A4 - 08	1	1	1	0	0	0	
A4 - 09	1	1	1	0	0	0	
A4 - 10	0	0	0	0	0	0	
A4 - 11	0	0	0	0	0	0	
A5 - 06	0	0	0	0.5	0	0	
A5 - 07	0	0	0	0.5	0.5	0	
A5 - 08	1	1	1	0	0	0	
A5 - 09	1	1	1	0	0	0	
A5 - 10	0	0	0	0	0	0	
A5 - 11	0	0	0	0	0	0	
A6 - 06	0	0	0	0.5	0	0	
A6 - 07	0	0	0	0.5	0.5	0	
A6 - 08	1	1	1	0	0	0	
A6 - 09	1	1	1	0	0	0	
A6 - 10	0	0	0	0	0	0	
A6 - 11	0	0	0	0	0	0	
A7 - 06	0	0	0	0	0	0	
A7 - 07	0	0	0	0	0.5	0	
A7 - 08	1	1	1	0	0	0	
A7 - 09	1	1	1	0	0	0	
A7 - 10	0	0	0	0	0	0	
A7 - 11	0	0	0	0	0	0	
A8 - 05	0	0	0	0	0	0	
A8 - 06	0	0	0	0	0.5	0	
A8 - 07	1	1	1	0	0	0	
A8 - 08	1	1	1	0	0	0	
A8 - 09	0	0	0	0	0	0	
A9 - 05	0	0	0	0	0	0	
A9 - 06	1	1	1	0	0	0	
A9 - 07	1	1	1	0	0	0	
A9 - 08	0	0	0	0	0	0	

A10 - 05	0	0	0	0	0	0	
A10 - 06	1	1	1	0	0	0	
A10 - 07	1	1	1	0	0	0	
A10 - 08	0	0	0	0	0	0	
A11 - 05	0	0	0	0	0	0	
A11 - 06	1	1	1	0	0	0	
A11 - 07	1	1	1	0	0	0	
A11 - 08	0	0	0	0	0	0	
A12 - 05	0	0	0	0	0	0	
A12 - 06	1	1	1	0	0	0	
A12 - 07	1	1	1	0	0	0	
A12 - 08	0	0	0	0	0	0	
A13 - 05	0	0	0	0	0	0	
A13 - 06	1	1	1	0	0	0	
A13 - 07	1	1	1	0	0	0	
A13 - 08	0	0	0	0	0	0	
A14 - 05	0	0	0	0	0	0	
A14 - 06	1	1	1	0	0	0	
A14 - 07	1	1	1	0	0	0	
A14 - 08	0	0	0	0	0	0	
A15 - 05	0	0	0	0	0	0	
A15 - 06	1	1	1	0	0	0	
A15 - 07	1	1	1	0	0	0	
A15 - 08	0	0	0	0	0	0	
A16 - 05	0	0	0	0	0	0	
A16 - 06	1	1	1	0	0	0	
A16 - 07	1	1	1	0	0	0	
A16 - 08	0	0	0	0	0	0	
A17 - 05	0	0	0	1	1	1	
A17 - 06	1	1	1	0	0	0	
A17 - 07	1	1	1	0	0	0	
A17 - 08	0	0	0	0	0	0	
A18 - 05	0	0	0	1	1	1	
A18 - 06	1	1	1	0	0	0	
A18 - 07	1	1	1	0	0	0	
A18 - 08	0	0	0	0	0	0	
A19 - 05	0	0	0	1	1	1	
A19 - 06	1	1	1	0	0	0	

Total number of Tower B apartments: 94
Total number of apartments with minimum 2 hours solar: 42

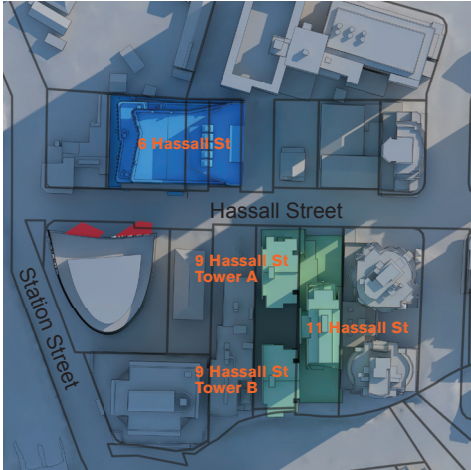
Proposed Tower B Performance: 44.6%

Total number of apartments for 9 Hassall Street (Tower A+B): 184
Total number of apartments with minimum 2 hours solar for 9 Hassall Street: 99

Proposed Solar Performance for 9 Hassall Street: 53.8%

Existing Solar Access Schedule
11 Hassall Street
Winter 21 June

- Solar performance modeled by Arterra Interactive due to apartment having a primarily northern or western orientation (i.e. potentially impacted by the 6 Hassall Street Proposal)
- Solar performance derived from DA assessment due to apartment having a primarily southern or eastern orientation (i.e. unable to be impacted by the 6 Hassall Street Proposal)



UNIT NO	HOURS OF SUNLIGHT EXISTING						RECEIVES MIN 2 HOURS OF SUNLIGHT
	9AM -10 AM	10AM - 11AM	11AM - 12AM	12PM - 1PM	1PM - 2PM	2PM - 3PM	
LEVEL 2							
1	0.5	0	1	1	1	0	☒
2	0	0	0.5	1	1	0	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 3							
1	0.5	0	1	1	1	0	☒
2	0	0	1	1	1	0	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 4							
1	0.5	1	1	1	1	0	☒
2	0	1	1	1	1	0	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 5							
1	0.5	1	1	1	1	0.5	☒
2	0	1	1	1	1	0.5	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 6							
1	0.5	1	1	1	1	0.5	☒
2	0	1	1	1	1	0.5	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 7							
1	0.5	1	1	1	1	0.5	☒
2	0	1	1	1	1	0.5	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 8							
1	0.5	1	1	1	1	1	☒
2	0	1	1	1	1	1	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐

LEVEL 9							
1	0.5	1	1	1	1	1	☑
2	0	1	1	1	1	1	☑
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 10							
1	0.5	1	1	1	1	1	☑
2	0	1	1	1	1	1	☑
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 11							
1	0.5	1	1	1	1	1	☑
2	0	1	1	1	1	1	☑
3	0	0	0	0	0	0	☐
4	0	0	0.5	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 12							
1	0.5	1	1	1	1	1	☑
2	0	1	1	1	1	1	☑
3	0	0	0	0	0	0	☐
4	1	1	1	0	0	0	☑
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 13							
1	0.5	1	1	1	1	1	☑
2	0	1	1	1	1	1	☑
3	0	0	0.5	0	0	0	☐
4	1	1	1	0	0	0	☑
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 14							
1	0.5	1	1	1	1	1	☑
2	0	1	1	1	1	1	☑
3	0	0.5	0.5	0	0	0	☐
4	1	1	1	0	0	0	☑
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 15							
1	0.5	1	1	1	1	1	☑
2	0	1	1	1	1	1	☑
3	1	1	1	0	0	0	☑
4	1	1	1	0	0	0	☑
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐

Existing Solar Access Schedule
11 Hassall Street
Winter 21 June

LEVEL 16							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	0.5	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 17							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	0.5	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 18							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	0.5	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 19							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	0.5	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 20							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 21							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 22							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓

LEVEL 23							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 24							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 25							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 26							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 27							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 28							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 29							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓

Existing Solar Access Schedule
11 Hassall Street
Winter 21 June

LEVEL 30							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 31							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 32							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 33							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 34							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 35							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 36							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 37							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓

LEVEL 38							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 39							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 40							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 41							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓

Total number of apartments: 224
Total number of apartments with minimum 2 hours solar: 150
Existing Solar Performance for 11 Hassall Street: 66.9%

Proposed Solar Access Schedule
11 Hassall Street
Winter 21 June

- Solar performance modeled by Arterra Interactive due to apartment having a primarily northern or western orientation (i.e. potentially impacted by the 6 Hassall Street Proposal)
- Solar performance derived from DA assessment due to apartment having a primarily southern or eastern orientation (i.e. unable to be impacted by the 6 Hassall Street Proposal)



UNIT NO	HOURS OF SUNLIGHT PROPOSED						RECEIVES MIN 2 HOURS OF SUNLIGHT
	9AM -10 AM	10AM - 11AM	11AM - 12AM	12PM - 1PM	1PM - 2PM	2PM - 3PM	
LEVEL 2							
1	0.5	0	1	1	1	0	☒
2	0	0	0.5	1	1	0	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 3							
1	0.5	0	1	1	1	0	☒
2	0	0	1	1	1	0	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 4							
1	0.5	1	1	1	1	0	☒
2	0	1	1	1	1	0	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 5							
1	0.5	1	1	1	1	0.5	☒
2	0	1	1	1	1	0.5	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 6							
1	0.5	1	1	1	1	0.5	☒
2	0	1	1	1	1	0.5	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 7							
1	0.5	1	1	1	1	0.5	☒
2	0	1	1	1	1	0.5	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 8							
1	0.5	1	1	1	1	0.5	☒
2	0	1	1	1	1	0.5	☒
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐

LEVEL 9							
1	0.5	1	1	1	1	0.5	☑
2	0	1	1	1	1	0.5	☑
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 10							
1	0.5	1	1	1	1	0.5	☑
2	0	1	1	1	1	0.5	☑
3	0	0	0	0	0	0	☐
4	0	0	0	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 11							
1	0.5	1	1	1	1	0.5	☑
2	0	1	1	1	1	0.5	☑
3	0	0	0	0	0	0	☐
4	0	0	0.5	0	0	0	☐
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 12							
1	0.5	1	1	1	1	0.5	☑
2	0	1	1	1	1	0.5	☑
3	0	0	0	0	0	0	☐
4	1	1	1	0	0	0	☑
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 13							
1	0.5	1	1	1	1	0.5	☑
2	0	1	1	1	1	0.5	☑
3	0	0	0.5	0	0	0	☐
4	1	1	1	0	0	0	☑
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 14							
1	0.5	1	1	1	1	0.5	☑
2	0	1	1	1	1	0.5	☑
3	0	0.5	0.5	0	0	0	☐
4	1	1	1	0	0	0	☑
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐
LEVEL 15							
1	0.5	1	1	1	1	0.5	☑
2	0	1	1	1	1	0.5	☑
3	1	1	1	0	0	0	☑
4	1	1	1	0	0	0	☑
5	0	0	0	0	0.5	0	☐
6	0	0	0	0.5	1	0	☐

Proposed Solar Access Schedule
11 Hassall Street
Winter 21 June

LEVEL 16							
1	0.5	1	1	1	1	0.5	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	0.5	0	✗
6	0	0	0	0.5	1	0	✓
LEVEL 17							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	0.5	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 18							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	0.5	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 19							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	0.5	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 20							
1	0.5	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0	✗
6	0	0	0	0.5	1	0	✗
LEVEL 21							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 22							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓

LEVEL 23							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 24							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 25							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 26							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 27							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 28							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 29							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓

Proposed Solar Access Schedule
11 Hassall Street
Winter 21 June

LEVEL 30							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 31							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 32							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 33							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0	0	0	✓
5	0	0	0	0	1	0.5	✗
6	0	0	0	0.5	1	1	✓
LEVEL 34							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 35							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 36							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 37							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓

LEVEL 38							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 39							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 40							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓
LEVEL 41							
1	1	1	1	1	1	1	✓
2	1	1	1	1	1	1	✓
3	1	1	1	0	0	0	✓
4	1	1	1	0.5	0	0	✓

Total number of apartments: 224
Total number of apartments with minimum 2 hours solar: 150
Proposed Solar Performance for 11 Hassall Street: 66.9%

Tzannes + BlightRayner