

The Built Environment Sustainability Scorecard is an initiative of the Council Alliance for a Sustainable Built Environment (CASBE). For more details see www.bess.net.au

### **Dwellings & Non Res Spaces**

Non-Res Spaces					
Name	Quantity	Area	% of total area		
Other building					
Other building 1	1	570 m²	100%		
Total	1	570 m <sup>2</sup>	100%		

## ADVERTISED PLAN

#### Supporting information

#### Floorplans & elevation notes

Credit	Requirement	Response	Status
Management 3.2	Individual utility meters annotated		-
Water 3.1	Water efficient garden annotated -		-
Energy 4.2	Floor plans showing location of photovoltaic panels as described.		-
Stormwater 1.1	Location of any stormwater management systems used in STORM or - MUSIC modelling (e.g. Rainwater tanks, raingarden, buffer strips)		-
Urban Ecology 1.1	Size and location of communal spaces		-
Urban Ecology 2.1	Vegetated areas		-
Urban Ecology 2.3	Green facade		-

#### Supporting evidence

cappering erra				
Credit	Requirement	Response	Status	
Management 2.3	Preliminary modelling report		-	
Management 2.4	Section J glazing assessment		-	
Energy 1.1	Energy Report showing calculations of reference case and proposed buildings		-	
Energy 3.7	3.7 Provide a written description of the average lighting power density to be -   installed in the development and specify the lighting type(s) to be used. -			
Energy 4.2	Specifications of the solar photovoltaic system(s).		-	
Stormwater 1.1 STORM report or MUSIC model Uploaded 21-0216_19 Diamond Street Eltha VIC_MUSIC Screendump_SPEL01.JPG MUSIC Model https://bess.net.au/t/865AA8DA		~		
IEQ 1.4	A short report detailing assumptions used and results achieved.		-	

Waste 1.1 Report detailing how the existing building is being reused on-site

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#### Credit summarv

Cr					
Ma	anagement Overall contribution 4.5%				
		56%			
	1.1 Pre-Application Meeting	0%			
	2.3 Thermal Performance Modelling - Non-Residential	100%			
	2.4 Thermal Performance Modelling - Non-Residential	100%			
	3.2 Metering	100%			
	3.3 Metering	0%			
	4.1 Building Users Guide	100%			

#### Water Overall contribution 9.0%

	Minin	num required 50%	57%	✓ Pass	]
1.1 Potable water use reduction			40%		
3.1 Water Efficient Landscaping			100%		
4.1 Building Systems Water Use Reduction			100%		

#### Energy Overall contribution 27.5%

		Minimum required 50%	60%	✓ Pass
	1.1 Thermal Performance Rating - Non-Residential		38%	
	2.1 Greenhouse Gas Emissions		100%	
	2.2 Peak Demand		100%	
	2.3 Electricity Consumption		100%	
	2.4 Gas Consumption		N/A	Scoped Out
			No	gas connection in use
	3.1 Carpark Ventilation		0%	
	3.2 Hot Water		100%	
	3.7 Internal Lighting - Non-Residential		100%	
	4.1 Combined Heat and Power (cogeneration / trigeneration)		N/A	Scoped Out
		No coge	neration or trige	neration system in use.
	4.2 Renewable Energy Systems - Solar		100%	
	4.4 Renewable Energy Systems - Other		N/A	Ø Disabled
				None
Sto	This copied document to be made av rmwater querall confortuther sole purpose of enablin	vailable g		
	its consideration and review a	Minimum required 100%	100%	✓ Pass
	1.1 Stormwater Treatment Planning and Environment Act 1	the 987.	100%	
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or	more details see www.bess.net.au	June of a contained of the Env		Page 3 of 1

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#### IEQ Overall contribution 16.5%

	м	linimum required 50%	67% 🖌 Pass	
1.4 Daylight Access - Non-Residential			67%	

#### Transport Overall contribution 9.0%

	0%
1.4 Bicycle Parking - Non-Residential	0%
1.5 Bicycle Parking - Non-Residential Visitor	0%
1.6 End of Trip Facilities - Non-Residential	N/A Ø Disabled
	None
2.1 Electric Vehicle Infrastructure	0%
2.2 Car Share Scheme	0%
2.3 Motorbikes / Mopeds	0%

#### Waste Overall contribution 5.5%

	33%
1.1 - Construction Waste - Building Re-Use	100%
2.1 - Operational Waste - Food & Garden Waste	0%
2.2 - Operational Waste - Convenience of Recycling	0%

#### Urban Ecology Overall contribution 5.5%

					50%		
	1.1 Communal Spaces				100%		
	2.1 Vegetation				50%		
	2.2 Green Roofs				0%		
	2.3 Green Walls and Facades				100%		
	3.2 Food Production - Non-Residential				0%		

#### Innovation Overall contribution 9.0%

		20%	
1.1 Innovation		20%	

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Credit breakdown	This copied document to be made available
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Management Overall contribution 20/	its consideration and review as
Wanagement Overall contribution 3%	part of a planning process under the
Section Notes: CLC - Wild	Planning and Environment Act 1987.
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1.1 Pre-Application Meeting	purpose which may breach any
Score Contribution	This credit contributes 33.3% towards the categor contributes
Criteria	Has an ESD professional been engaged to provide sustainability advice from schematic
	design to construction? AND Has the ESD professional been involved in a pre-
	application meeting with Council?
Question	Criteria Achieved ?
Project	No
2.3 Thermal Performance Modelling -	Non-Residential 100%
Score Contribution	This credit contributes 22.2% towards the category score.
Criteria	Has preliminary modelling been undertaken in accordance with either NCC2019
	Section J (Energy Efficiency), NABERS or Green Star?
Question	Criteria Achieved ?
Other building	Yes
2.4 Thermal Performance Modelling -	Non-Residential 100%
Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Has a preliminary Section J facade assessment been undertaken?
Question	Criteria Achieved ?
Other building	Yes
3.2 Metering	100%
Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Have utility meters been provided for all individual commercial tenants?
Question	Criteria Achieved ?
Other building	Yes
3.3 Metering	0%
Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Have all major common area services been separately submetered?
Question	Criteria Achieved ?
Other building	No
4.1 Building Users Guide	100%
Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Will a building users guide be produced and issued to occupants?
Question	Criteria Achieved ?
Project	Yes

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#### Water Overall contribution 5% Minimum required 50%

Water Approach				
What approach do you want to use Water?		Use the built in calculation tools		
Project Water Profile Question				
Do you have a reticulated third pipe or an on-site water recycling system?		No		
Are you installing a swimming pool?			No	
Are you installing a rainwater tank?			No	
Water fixtures, fittings and connect	ions			
Showerhead			Scope out	
Bath			Scope out	
Kitchen Taps			>= 5 Star WELS rating	
Bathroom Taps			>= 5 Star WELS rating	
Dishwashers			Scope out	
WC			>= 4 Star WELS rating	
Urinals			Scope out	
Washing Machine Water Efficiency			Scope out	
Which non-potable water source is the	e dwelling/space connected	d to?	-1	
Non-potable water source connected	to Toilets		No	
Non-potable water source connected	Non-potable water source connected to Laundry (washing machine)		No	
Non-potable water source connected	Non-potable water source connected to Hot Water System		No	
1.1 Potable water use reduction			40%	
Score Contribution	This credit contributes	71.4% towards the categor	y score.	
Criteria	What is the reduction in	n total potable water use du	e to efficient fixtures, appliances,	
	rainwater use and recy	cled water use? To achieve	points in this credit there must be	
	>25% potable water re	eduction.		
Output	Reference			
Project	488 kL			
Output	Proposed (excluding rainwater and recycled water use)			
Project	358 kL			
Output	Proposed (including rainwater and recycled water use)		use)	
Project	roject 358 kL			
Output	Dutput % Reduction in Potable Water Consumption			
Project	roject 26 %			
Output	% of connected demar	nd met by rainwater		
Project	88 %			
Output	How often does the tar	nk overflow?		
Project	Very Often			
Output	Opportunity for additio	nal rainwater connection	went to be made anolichin	
Project	227 kL	This copied docur	ment to be made available	
ADVERTIS	ED	its consider part of a plan	ation and review as ning process under the	

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3.1 Water Efficient Landscaping	100%
Score Contribution	This credit contributes 14.3% towards the category score.
Criteria	Will water efficient landscaping be installed?
Question	Criteria Achieved ?
Project	Yes
4.1 Building Systems Water Use R	eduction 100%
Score Contribution	This credit contributes 14.3% towards the category score.
Criteria	Where applicable, have measures been taken to reduce potable water consumption by
	>80% in the buildings air-conditioning chillers and when testing fire safety systems?
Question	Criteria Achieved ?
Project	Yes

### ADVERTISED PLAN

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Use the BESS Deem to Satisfy (DtS) m	ethod for Energy?		Yes
Do all exposed floors and ceilings (form	ning part of the envelope)		Yes
demonstrate a minimum 10% improve	ment in required NCC2019		
insulation levels (total R-value upwards	and downwards)?		
Does all wall and glazing demonstrate	meeting the required NCC2	019	Yes
facade calculator (or better than the to	tal allowance)?		
Are heating and cooling systems within	one Star of the most efficience (	ent	Yes
Energy Efficiency Batios (EEB) not less	than 85% of the CoP & FE	B of the	
most efficient equivalent capacity unit	available?		
Are water heating systems within one s	star of the best available, or	85% or	Yes
better than the most efficient equivaler	nt capacity unit?		
Non-Residential Spaces Energy Prof	ïle		
Heating, Cooling & Comfort Ventilation	- Electricity		-
Reference fabric & services			
Heating, Cooling & Comfort Ventilation	- Electricity		-
Proposed fabric & reference services			
Heating, Cooling & Comfort Ventilation	- Electricity		-
Proposed fabric & services			
Heating - Wood			-
Reference fabric & services			
Heating - Wood Proposed fabric & reference services			-
Heating - Wood			-
Proposed fabric & services			
Hot Water - Electricity			
Reference		This conied do	cument to be made availabl
Hot Water - Electricity		for the so	le nurnose of enabling
Proposed		its consid	leration and review as
Lighting - Reference		nart of a nl	anning process under the
Lighting - Proposed		Planning an	d Environment Act 1987
Peak Thermal Cooling Load		The documen	t must not be used for any
Reference fabric and services		nurnose	which may breach any
Peak Thermal Cooling Load Proposed fabric and services		purpose	convright
Solar Photovoltaic system			
System Size (lesser of inverter and par	el capacity)	PV System	15.0 kW peak
Orientation (which way is the system for	acing)?	PV System	Fast
Inclination (angle from horizontal)		PV System	38 0 Angle (degrees)
1.1 Thermal Performance Rating - N	on-Residential	- i v oyotoni	38%
		0.00/	
Score Contribution	This credit contributes 4	0.0% towards the categor	y score.
Criteria	What is the % reduction	in heating and cooling ene	ergy consumption against the
	reference case (NCC 20	19 Section J)?	
		AD\	/ERTISED

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2.1 Greenhouse Gas Emissions	100%		
Score Contribution	This credit contributes 10.0% towards the category score.		
Criteria	What is the % reduction in annual greenhouse gas emissions against the benchmark?		
2.2 Peak Demand	100%		
Score Contribution	This credit contributes 5.0% towards the category score.		
Criteria	What is the % reduction in the instantaneous (peak-hour) demand against the		
	benchmark?		
2.3 Electricity Consumption	100%		
Score Contribution	This credit contributes 10.0% towards the category score.		
Criteria	What is the % reduction in annual electricity consumption against the benchmark?		
2.4 Gas Consumption	N/A 💠 Scoped Out		
This credit was scoped out	No gas connection in use		
3.1 Carpark Ventilation	0%		
Score Contribution	This credit contributes 10.0% towards the category score.		
Criteria	If you have an enclosed carpark, is it: (a) fully naturally ventilated (no mechanical		
	ventilation system) or (b) 40 car spaces or less with Carbon Monoxide monitoring to		
	control the operation and speed of the ventilation fans?		
Question	Criteria Achieved ?		
Project	No		
3.2 Hot Water	100%		
Score Contribution	This credit contributes 5.0% towards the category score.		
Criteria	What is the % reduction in annual hot water system energy use (gas and electricity)		
	against the benchmark?		
3.7 Internal Lighting - Non-Reside	ntial 100%		
Score Contribution	This credit contributes 10.0% towards the category score.		
Criteria	Does the maximum illumination power density (W/m2) in at least 90% of the area of the		
	relevant building class meet the requirements in Table J6.2a of the NCC 2019 Vol 1?		
Question	Criteria Achieved ?		
Other building	Yes		
4.1 Combined Heat and Power (co	generation / N/A $\diamond$ Scoped Out		
trigeneration)			
This credit was scoped out	No cogeneration or trigeneration system in use.		



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	4.2 Renewable Energy Systems - Solar	r	100%
	Score Contribution	This credit contributes 5.0% towards the	e category score.
	Criteria	Does the solar power system provide 59	% of the estimated energy consumption of the
		building class it supplies?	
	Output	Solar Power - Energy Generation per ye	ar
	Other building	15,402 kWh	
	Output	% of Building's Energy	
	Other building	96 %	
	4.4 Renewable Energy Systems - Othe	r	N/A Ø Disabled
	This credit is disabled	None	NVERTISED
Sto	ormwater Overall contribution 14%	Minimum required 100%	PLAN
	Which stormwater modelling are you usin	ng?	MUSIC or other modelling
	1.1 Stormwater Treatment		100%
	Score Contribution	This credit contributes 100.0% towards	the category score.
	Criteria Has best practice stormwater management been demonstrated?		ent been demonstrated?
	Question	Flow (ML/year)	
	Project	0.0 % Reduction	
	Question	Total Suspended Solids (kg/year)	
	Project	89.3 % Reduction	
	Question	Total Phosphorus (kg/year)	
	Project	66.9 % Reduction	
	Question	Total Nitrogen (kg/year)	
	Project	47.7 % Reduction	

IEQ Overall contribution 11% Minimum required 50%

1.4 Daylight Access - Non-Re	esidential 67%
Score Contribution	This credit contributes 100.0% towards the category score.
Criteria	What % of the nominated floor area has at least 2% daylight factor?
Question	Percentage Achieved?
Other building	60 %

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**Transport** Overall contribution 0%

			0%	
Score Contribution	This credit contributes	25.0% towards the category sco	re.	
Criteria	Have the planning scheme requirements for employee bicycle parking been exceed		g been exceeded	
	by at least 50% (or a m	inimum of 2 where there is no pla	anning schem	e requirement)?
Question	Criteria Achieved ?			
Other building	No			
Question	Bicycle Spaces Provide	ed ?		
Other building	-			
1.5 Bicycle Parking - Non-Residentia	al Visitor		0%	
Score Contribution	This credit contributes	12.5% towards the category sco	re.	
Criteria	Have the planning sche	eme requirements for visitor bicyc	cle parking be	en exceeded by
	at least 50% (or a minir	num of 1 where there is no plann	ning scheme re	equirement)?
Question	Criteria Achieved ?		_	
Other building	No			
Question	Bicycle Spaces Provide	ed ?		
Other building	-			
1.6 End of Trip Facilities - Non-Resid	lential		N/A	Ø Disable
This credit is disabled	None			
2.1 Electric Vehicle Infrastructure			0%	
Score Contribution	This credit contributes	25.0% towards the category sco	re.	
Criteria	Are facilities provided for	or the charging of electric vehicle	es?	
Question	Criteria Achieved ?			
Project	No			
2.2 Car Share Scheme			0%	
Score Contribution	This credit contributes	12.5% towards the category sco	re.	
Criteria	Has a formal car sharin	g scheme been integrated into th	ne developme	nt?
Question	Criteria Achieved ?			
Project	No			
2.3 Motorbikes / Mopeds			0%	
Score Contribution	This credit contributes	12.5% towards the category sco	re.	
Criteria	Are a minimum of 5% c	of vehicle parking spaces designe	ed and labelle	d for motorbikes
	(must be at least 5 mot	orbike spaces)?		
Question	Criteria Achieved ?			
	No			

Waste Overall contribution 2%

1.1 - Construction Waste - Building F	le-Use	100%
Score Contribution	This credit contributes 33.3% towards the category score	e.
Criteria	If the development is on a site that has been previously o	developed, has at least 30% of
	the existing building been re-used?	
Question	Criteria Achieved ?	
Project	Yes	
2.1 - Operational Waste - Food & Gar	den Waste	0%
Score Contribution	This credit contributes 33.3% towards the category score	re.
Criteria	Are facilities provided for on-site management of food an	nd garden waste?
Question	Criteria Achieved ?	
Project	No	
2.2 - Operational Waste - Conveniend	ce of Recycling	0%
Score Contribution	This credit contributes 33.3% towards the category score	e.
Criteria	Are the recycling facilities at least as convenient for occupants as facilities for general	
	waste?	
Question	Criteria Achieved ?	
Project	No	

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#### **Urban Ecology** Overall contribution 3%

1.1 Communal Spaces	100%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Is there at least the following amount of common space measured in square meters : $^{\star}$
	1m <sup>2</sup> for each of the first 50 occupants * Additional 0.5m <sup>2</sup> for each occupant between 51
	and 250 * Additional 0.25m <sup>2</sup> for each occupant above 251?
Question	Common space provided
Other building	251 m²
Output	Minimum Common Space Required
Other building	28 m <sup>2</sup>
2.1 Vegetation	50%
Score Contribution	This credit contributes 50.0% towards the category score.
Criteria	How much of the site is covered with vegetation, expressed as a percentage of the
	total site area?
Question	Percentage Achieved ?
Project	15 %
2.2 Green Roofs	0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Does the development incorporate a green roof?
Question	Criteria Achieved ?
Project	No
2.3 Green Walls and Facades	100%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Does the development incorporate a green wall or facade?
Question	Criteria Achieved ?
Project	Yes
3.2 Food Production - Non-Resident	ial 0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Is there at least 0.25m <sup>2</sup> of space per occupant dedicated to food production?
Question	Food Production Area
Other building	0.0 m <sup>2</sup>
Output	Min Food Production Area
Other building	8 m²



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#### **Innovation** Overall contribution 2%

Innovation		
Description	Air to Air HeatVariable demand control (CO2)Recovery Systemoutside air via air to air heat exchanger.	
Points Targeted	Air to Air Heat 2 Recovery System	
1.1 Innovation	20%	
Score Contribution	This credit contributes 100.0% towards the category score.	
Criteria	What percentage of the Innovation points have been claimed (10 points maximum)?	

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