

Sustainable Buildings SEPP

Non residential development Policy and digital systems update

Presented by Government Architect NSW for Department of Planning, Housing and Infrastructure

13 September 2023



always.on Country.

Gadigal Country, Hyde Park, Sydney CBD. Image: Destination NSW.



Today's speakers





Abbie Galvin

Government Architect New South Wales



Jillian Hopkins

Principal Design Advisor GANSW

Today's session

Sustainable Buildings SEPP Policy Overview

5 Policy Provisions in Detail

Questions & Answers

Responding to feedback

The session will be recorded and published on the website. We will also update FAQs.

Sustainable Buildings SEPP

Frequently asked questions about the new policy August 2022



Overview

In August 2022, the NSW Government released the new State Environmental Planning Policy (Sustainable Buildings) 2022 (Sustainable Buildings SEPP) and associated amendments to the Environmental Planning and Assessment Regulations 2001 and the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021.

The SEPP package will come into effect on 1 October 2023. The policy incorporates provisions from the State Environmental Planning Policy (Building Sustainability Index) BASIX 2004 (BASIX SEPP) and introduces new measures for non-residentia buildings.

These Frequently Asked Questions will support industry, local government, and state agencies to implement the new policy.

About the SEPP and Regulation

1. Why do we need a Sustainable Buildings SEPP and EP&A Regulation amendment?

Together, the Sustainable Buildings SEPP and Regulation amendment will help the NSW Government deliver its commitments under the NSW Net Zero Plan stage 1: 2020-2030 and the national Trajectory for Low Energy Buildings. The SEPP is a first step in introducing sustainability measures for non-residential buildings and updating standards for residential buildings previously enabled through the BASIX SEPP and non-regulatory frameworks such as NABERS.

The SEPP sets out a framework for buildings in NSW to contribute to NSW's target of achieving net zero by 2050. The new provisions set out a modern, transparent and fair framework to support the delivery of sustainable buildings in NSW. The proposed SEPP is an important change for buildings in NSW to meet the net zero objectives. The new settings provide improved flexibility and the ability for industry to lead and respond to the requirement to achieve net zero emissions and move towards a circular economy.

2. When will it come into effect?

The SEPP was notified on 29 August 2022 and will come into effect on 1 October 2023. Delayed commencement will allow the industry time to adjust to the new standards. The SEPP will be reviewed in 2025 and then every three years to ensure the building sector continues to contribute to NSW delivering on its net zero target in a staged manner.

3. Who has been consulted about the policy?

The department has engaged a range of stakeholders on these policy initiatives including local government, peak bodies, environment groups, and industry groups representing developers, builders, designers, architects, and engineers and the sustainability sector. The increased BASIX standards were also publicly exhibited from December 2021. March 2022. Can Councils set higher energy and water standards? Does the SB SEPP require a Section J report to be prepared using the NABERS pathway?

What is the format for embodied emissions reporting?

How have heritage buildings been considered in the policy?



Sustainable Buildings SEPP



Policy overview September 2023 Abbie Galvin Government Architect NSW



Policy statistics



The Sustainable Buildings SEPP will reduced emissions by:



2.6 Mt

Over ten years of the policy.



8.5 million

Trees planted (equivalent)



Vehicles off the road (equivalent)

Globally, buildings contribute to:

38% Carbon emissions

35% Energy consumption

50% Resource consumption *

*World Green Building Council 2023

In Australia, by 2050:

85%

of Australia's built environment emissions will be from embodied carbon +

+Green Building Council of Australia 2023

Policy aims

The shared aims of the Sustainable Buildings SEPP reflect NSW commitment to sustainable development.

It can be considered the initial framework on which future policy initiatives can build.

The policy will support consistency in assessment and provide an invaluable source of data to help the government monitor improvements over time.



Extract from SB SEPP Chapter 1:

The Sustainable Buildings SEPP aims to:

- (a) encourage the design and delivery of sustainable buildings,
- (b) ensure consistent assessment of the sustainability of buildings,
- (c) record accurate data about the sustainability of buildings, to enable improvements to be monitored,
- (d) monitor the embodied emissions of materials used in the construction of buildings,
- (e) minimise the consumption of energy,
- (f) reduce greenhouse gas emissions,
- (g) minimise the consumption of mains-supplied potable water,
- (h) ensure good thermal performance of buildings.

Policy Provisions

The Sustainable Buildings SEPP introduces new performance provisions for non-residential development in NSW.

Chapter 3 applies to:

- All non residential development except in excluded land use zones (rural, heavy industry, waterways etc)
- Energy and water standards and net zero provisions for large commercial development:
 - Hotels and motels > 100 rooms
 - Serviced apartments > 100 apartments
 - Commercial offices > 1,000 sqm NLA
- Net zero statement for state significant development:
 - Educational facilities
 - Cultural facilities
 - Health buildings



	Non – Residential measures	Policy provisions:	Applies to:
	General provisions	Consider waste minimisation, water reduction, energy storage + generation.	All non-residential development
2	Embodied emissions reporting	Disclose quantities of key materials and associated embodied emissions	All non-residential development
3	Net Zero statement	Show that development does not use fossil fuels or can transition by 2035	Large commercial + certain SSD
4	Water performance	Achieve water standards and verify these 24 months post occupancy.	Large commercial
วิล	Energy performance +	Achieve energy standards and verify these 24 months post occupancy	Large commercial
ōb	Offsets purchase	Offset on site fossil fuel use and energy performance gap	Large commercial

Policy Provisions - clarifications

Minor policy updates are in progress to resolve any ambiguity.

Changes will be 'made' before 1 October 2023 and reflected in the legislation.



Issue	Example of legislation update
Application of chapter 3	Review CIV lower limit so that the chapter does not apply to smaller non-residential developments less than \$5M CIV.
Verification of quantities	Enable a NABERS assessor to verify material and emissions quantities, as well as designers, engineers, quantity surveyors.
Crown land	Clarify how the embodied emissions reporting requirements apply to development on Crown Land in relation to crown building works certificates and post-occupation.
24 months after occupation certificate	Enable requests for 1 year extension on achieving energy and water standards where reasonable – for example staged development or change of owner.

Technical guidance





Project life cycle





Digital implementation



We have been working on digital integration into the NSW Planning Portal.

New questions for non-residential development will streamline the application process and improve the user experience over a project life cycle.

Pre DA Development application		Construction certificate	Occupation Certificate + beyond		
NSW Planning Portal – updated I Major Projects Portal – updated – new non-residential tab		Post consent portal – updates in	In development		
		progress			

NSW Planning Portal



Digital updates – SEPP Exemptions

Sustainable Buildings

Is the development exempt from the <u>State Environmental Planning</u> <u>Policy (Sustainable Buildings) 2022, Chapter 3</u>, relating to nonresidential buildings? * <u>What is this?</u>

OYes ONo Refer to the <u>State Environmental Planning Policy (Sustainable Buildings) 2022,</u> <u>Chapter 3.1</u>, for details of non-residential developments to which the SEPP applies or does not apply.

[If yes] Provide reason for exemption, select all that apply:

- Development that is permitted with or without consent or is exempt or complying development under <u>State Environmental Planning Policy (Exempt</u> and Complying Development Codes) 2008
- Development that is permitted with or without consent or is exempt or complying development under <u>State Environmental Planning Policy</u> (Resources and Energy) 2021, Chapter 2
- Development that is permitted with or without consent or is exempt or complying development under <u>State Environmental Planning Policy</u> (Transport and Infrastructure) 2021, Chapter 5
- Development on land wholly in RU1, RU2, RU3, E5, IN3, C1, C2, C3, W1, W2, W3 or W4
- Development for purposes of residential care facilities
- Development that is wholly residential
- □ An alteration or addition with a Capital Investment Value under \$10 million
- □ A modification to a development application, where the original application was lodged before 1 October 2023

1. General Sustainability



Policy provisions for all non-residential development September 2023 **Jillian Hopkins** Principal Design Advisor GANSW





General Sustainability summary



Measure	General sustainability
Policy requirement	 The development must consider minimisation of waste from demolition and construction reduction in peak demand for electricity, incl efficient technology, reduction in the reliance on artificial lighting and mechanical heating and cooling through passive design, generation and storage of renewable energy, metering and monitoring of energy consumption, minimisation of the consumption of potable water.
Application	All non-residential development - DA
SEPP reference:	Clause 3.2 (1) General sustainability
What's new?	Questions, data and free text fields added to the NSW Planning portal development application processes to capture the policy response.



General Sustainability policy



Policy – extract

(b)

(c)

(d)

(e)

(f)

State Environmental Planning Policy (Sustainable Buildings 2022)

3.2 Development consent for non-residential development

(1) In deciding whether to grant development consent to non-residential development, the consent authority must consider whether the development is designed to enable the following —

- (a) the minimisation of waste from associated demolition and construction, including by the choice and reuse of building materials,
 - a reduction in peak demand for electricity, including through the use of energy efficient technology,
 - a reduction in the reliance on artificial lighting and mechanical heating and cooling through passive design,
 - the generation and storage of renewable energy,
 - the metering and monitoring of energy consumption,
 - the minimisation of the consumption of potable water.

NSW Planning Portal



Digital update – General Sustainability Question - DA

General Sustainability

Has the proposed development been designed to enable any of the following sustainability measures?* Select all that apply

- □ The minimisation of waste from associated demolition and construction, including by the choice and reuse of building materials
- A reduction in peak demand for electricity, including through the use of energy-efficient technology
- A reduction in the reliance on artificial lighting and mechanical heating and cooling through passive design
- $\hfill\square$ The generation and storage of renewable energy
- $\hfill\square$ The metering and monitoring of energy consumption
- The minimisation of the consumption of potable water
 Other

Provide further detail on the general sustainability provisions and list any relevant documents that accompany this application.

Is the development seeking certification from a sustainability rating system? $$_{\rm OYes}$$

ONo



[If yes] Which sustainability rating/s will the development achieve?

- NABERS certification
- Green Star Buildings certification
- Green Star Communities certification
- LEED Certification
- Passive House certification
- Living Building Challenge certification
- Other

What star rating or sustainability level will be achieved by the development?

General Sustainability process



Applicant steps

- Review policy provision for general sustainability provisions
- **DA** Tick boxes and add free field text in the NSW Planning Portal, cross reference any drawings or reports that illustrate general sustainability provisions
- **DA** Fill in optional information about other rating tools in the NSW Planning Portal at DA Stage

General Sustainability process



Applicant steps

- Review policy provision for general sustainability provisions
- **DA** Tick boxes and add free field text in the NSW Planning Portal, cross reference any drawings or reports that illustrate general sustainability provisions
- **DA** Fill in optional information about other rating tools in the NSW Planning Portal at DA Stage

Assessor steps

- Confirm that the Sustainable Buildings SEPP applies to the development by checking chapter 3.1 of the policy
- **DA** Review answers on the NSW Planning Portal to consider if applicant has addressed this provisions and take into account during determintation.

2. Embodied Emissions Reporting



Policy provisions for all non-residential development September 2023 **Jillian Hopkins** Principal Design Advisor GANSW





Embodied Emissions Summary



Measure	Embodied Emissions Disclosure				
Policy requirement	 Describe the use of low-emission construction technologies in the development (e.g. reuse of materials, recycled content) Disclose (at DA and update at CC) quantities of key materials used and associated embodied emissions Material quantities to be certified by quantity surveyor / builder / designer / and NABERS assessor 				
Application	All non-residential development				
SEPP reference:	Clause 3.2 (2) Embodied emissions quantified				
Regulation reference	Schedule 2 (35B) Emissions reporting at DA Schedule 1 (10A) Emissions reporting at CC				
What's new? Embodied Emissions Technical Note	 NABERS Embodied Emissions Materials Form defined as pathway. NABERS Agreement(s) to Rate incorporate embodied emissions – optional Embodied emissions technical note in final stages. Regulation update to enable NABERS assessor to verify quantities Regulation update to clarify that this provision also applies to Crown Land Low emissions technologies defined in the Planning Portal to include modular construction, pre fabrication, parametric design, electric 				
	construction vehicles.				

Embodied Emissions Policy

Policy – extract

State Environmental Planning Policy (Sustainable Buildings 2022)	
3.2 Development consent for non-residential development	
(2) Development consent must not be granted to non-residential development unless the consent authority is satisfied the embodied emissions attributable to the development have been quantified	
DA - extract	CC – extract
Amendment of Environmental Planning and Assessment Regulation 2021	Amendment of Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021
 35B embodied emissions for non-residential development under Sustainable Buildings SEPP (1) A development application for non-residential development under State Environmental Planning Policy (Sustainable Buildings) 2022 must - (a) Disclose the amount of embodied emissions attributable to the development, (b) Describe the use of low emissions construction technologies in the development . 	10A embodied emissions for non-residential development under Sustainable Buildings SEPP (2) A development application for non-residential development under State Environmental Planning Policy (Sustainable Buildings) 2022 must - (a) Disclose the amount of embodied emissions attributable to the development, (b) Describe the use of low emissions construction technologies in the development .
<i>(2) The amount disclosed under subsection (1) (a) must be determined using—</i> (a) The form published on the NSW planning portal as in force from time to time, and (b) An itemised list of building materials for the development prepared by a quantity surveyor. Example – a bill of materials or bill of quantities.	(3) The amount disclosed under subsection (2) must be determined using — (a) The form published on the NSW planning portal as in force from time to time, and (b) An itemised list of building materials for the development prepared by a quantity surveyor. Example – a bill of materials or bill of quantities.

- (3) The amount disclosed under subsection (1) (a) must be certified by —
- (a) a quantity surveyor, or
- (b) A qualified designer, or
- (c) An engineer, or
- (d) NABERS assessor

(4) The amount disclosed under subsection (2) must be certified by -

- (a) a quantity surveyor, or
- (b) A qualified designer, or
- (c) An engineer, or
- (d) NABERS assessor



Embodied Emissions Technical Note



The Embodied Emissions Reporting Technical Note outlines how materials and their embodied emissions will be measured and disclosed for both residential and non-residential development type.

The 4-Page Technical Note will be available in September 2023 and is structured under the following headings:

- When is reporting required?
- How are emissions reported?
- What must be reported?
- Residential reporting requirements
- Non residential reporting requirements
 - NABERS Embodied Emissions Materials Form (from 1 October 2023)
 - NABERS Embodied Emissions Framework and Tool (from mid 2024)
- Considering materials
- Further information

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Embodied Emissions and the NABERS Framework



NABERS Embodied Emission Materials Form

> [INTERIM] October 2023

Material quantities only - no emissions factors, pending finalisation of NABERS embodied emissions framework NABERS Embodied Emissions Framework and Tool

> [Final] July 2024

Materials and embodied emissions, using the NABERS embodied emissions framework – national consistency

NSW Government

4 Parramatta Square

Parramatta NSW 2150 nabers gov au

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Instructions Step 1 – About the building Step 2 – Quantities of materials Step 3 – Certification



New non-residential developments must complete this form

From 1 October 2023, all new non-residential developments must report on embodied emissions using this form in NSW, where the NSW government's State Environmental Planning Policy (Sustainable Buildings SEPP) 2022 applies. You must disclose the amounts of key materials at the development application and construction certificate stages.

Embodied carbon emissions are generated across the full life cycle of a building from "cradle to grave". Embodied carbon made up 16% of the whole-of-life carbon footprint of Australia's buildings in 2019 [1]. The purpose of this form is to report on material quantities only, to support project team discussions about potential reduction in emissions from key materials. The form does not include embodied emissions factors. This reporting form will be updated to reflect the NABERS Embodied Carbon tool when it's available in 2024.

Step 1: About the building

In the 'About the building' tab, you will add the location, function, and type of building you are planning to construct. You will also need to add information that describes the building, including gross floor area, number of floors, area of carpark, and more. Collecting this information will allow the NSW Government to compare similar buildings.

Step 2: Quantity of materials

In the 'Quantity of materials' tab, you will add the amounts of materials that you will use to construct your building. You only need to complete those fields relevant to your building. Leave fields that aren't relevant to your building blank. We recognise that there will be uncertainty, particularly at DA stage, so please use your best estimates where information is unknown (e.g., based on past projects).

Instructions: Explains purpose of form; that minimum of 80% of cold shell emissions required; and that this form is an interim arrangement to be superseded by NABERS framework when available in 2024

Ins	structions	
s	tep 1 – About the building	
	Step 2 – Quantities of materials	
l	Step 3 – Certification	

Building location and site data					
	vilding location and site data Value Unit		Note	Comment	
Durang appress					
Pestcode				Required	Postcode of building
Town/city	Post code not found			Town/city/suburb/region automated from postcode (may not give exact town same)	Town/city/subsrb/wg/cn of the building site.
Distance to nearest major city/town			km	Enter for rural/regional locations only	Declare the shortest route by road to your site from the centre of your nearest major city (>100,000 people). The route must be traversab
Devicest at an a	Disease salest			Denind	a senstralier buck.
New build or major renovation?	Please select			Required	orage of demonstrations.
Floor area by NCC building classification	Gross (GFA)	Net (NLA/NSA/UFA)	Unit	Note	
Please enter all floor areas relevant to your building. Leave	areas blank if not applical	ble. Please enter Gross Flo	x Area (GFA)		
for all building classifications. Please also enter the corresp Analysis and the second for that hulldline classifications	onding not area (Not Lettal	ble Area, Not Sollable Area	or Usable Floo	r i i i i i i i i i i i i i i i i i i i	
Class for Detected residential hubbans			er?	Excurred for Class for Datashed residential bounes, towebounes	Oreas Flaw Area (OFA), as defeed by the AVOS Australian Cost Management Manual
Class 1b: Doarding houses and hostels			en!	Required for Class 1b: Boarding house, quest house, hostel	Net area (Net Lettable Area, Net Sellable Area, Uzable Floor Area), as defined by the PCA's Method of Measurement
Class 2: Multi-unit residential buildings			er.	Required for Class 2: Multi-unit residential, including apartment buildings	
Class 3. Other residential buildings			er!	Required for Class 3. Other residential buildings	
Class 4: Residential inside non-residential			m/	Required for Class 4: Residential building inside a non-residential building, e.g., caretaker resi	terce
Class 5: Office buildings			en ²	Required for Class 5: Office building	
Class & Retail buildings			m ^a	Required for Close 6: Retail building, e.g., shop, restaurant, café	
Class 7a: Carparks			er!	Required for Class 7a: Carparks	
Class 7b. Warehouse-type buildings			m*	Required for Class 7b: Warehouses, wholesalers and storage facilities	
Class 8. Industrial buildings			er*	Required for Class 8: Industrial buildings, e.g., factories and workshops	
Class for Healthcare buildings			er*	Required for Class 9a: Healthcare, e.g., hospitals, clinics, day surgelies	
Class 9b: Cvic buildings			m	Required for Class 9b: Club buildings, e.g., theatres, club centres, train stations	
Class Sc. Aged care and personal care buildings			er ^e	Required for Class 9c: Aged care and personal care	
Class 10a: Non-habitable buildings			m ^a	Required for Class 10a: Non-habitable buildings including shects, carports and private garages	
Class 100 Miscelaneous structures			m 	Required for Class 10: Miscelanecus structures, including tences, masts, antennas, retainin Required for Class 10: Bushfee shoftee ant attached to a Class. In bublics	g waits and swimming pools
Class TOC Dustile stellers			nr Int	Required for Class ToC, Dustrine sheters not acached to a class ta building.	
roter		1	Ant.	Prequies, com or en apois most de more man o.	
Project information	Value		Unit	Nota	
Total cest of project			AUD excl. GST	Required	Include labour, materials, transport, plant, equipment and professional fees, Exclude GST, land, finance, escalation and other costs,
Duilding design life			yeara	Required	If uncertain, enter 50 years
Estimated envelope life			years	Optional	
Estimated replacement cycle for mechanical senices			years	Optional	
Estimated replacement cycle for vertical transportation			years	Optional	
Dimensions of the building and the site	Value		Unit	Note	
Sito area			1	Required	Total and if she to solve all boundary. For shared sites, enter the area for the doclased building, plus the building's share of all common weighted by GFA. For example, if a site was 10.000 m^3 , then was 50.000 m^3 , then was 50.000 m^3 , there was 50.000 m^3 to 1000 m^3 .
Sto eccupancy	Please select			Roginet	Sele occupancy means that the main building is the only building on the site. Shared occupancy means multiple buildings on one site
Building footprint area	Contraction of the		41	Raquired	Total floor area of the ground floor measured to the outside edge of the floorplace.
Typical floor area (if different to building footprint area)			14	Drily needed if different to row above	
Typical floor peender			9	Required	
Area of external carpark (not included in GFA)			*	Regared, Enter G Frot applicable	
Area of external hardstand (not included in GFA)			9 ²	Required. Enter 6 if not applicable	
Area of other fund landscaping (net included in GPA)			e ²	Required, Enter C If not applicable	Include all other impervous areas. For example, paties, paths and onveways (hill aready included in carpaxis and hardstands above)
hamber of hoors/screys soore grade, including ground toor			10	Nagaras Paralas de Para de Analas de Calendaria	
Number of Rock Storey's basis grade			10	Hagarse, Enter & Fritz applicates.	
Total hands about state				Descared	Measured from the average fricked state to the bishest point of the hidden excluden sectors area distinguish average changes are
is a report of the second s		1	-	1044110	Interest of the second se
Structural material choices	Value		Unit	Note	
	Please select			Required	
Foundation type	and the second se			Designal	
Poundation (ype Frame type (dominant)	Please select			2041179	

Instructions: Explains purpose of form; that minimum of 80% of cold shell emissions required; and that this form is an interim arrangement to be superseded by NABERS framework when available in 2024

Step 1: About the Building: Project address, sizes and metrics, location, key materials – noting that this could be a cover sheet

Step 2: Quantity of materials complete all blue cells that are applica	be to the building. Leave item	s that aren't applicable bi	ana.	Fit out blue cells				
Material category	Sub-category 1	Sub-category 2	Sub-category 3	Value	Unit of measu	re Comment	AIQS ACMM Code	ICM53 (Level 3 Codes Construction
Structure	Jacob and a second s						l and a construction of	
The structural parts of the building the his includes fill below the substructu excludes external areas such as har	t are below ground (substruct re, foundations, basement lev dstands, carparks, patios, etc.	ure) and above ground (s els, suspended floors, w	uperstructure). all structure, roof structu	re, stairs, lift shafts and	I balconies.			
overage of structural material spend			1.5		S	Required. Coverage of <u>spend</u> for structural elements entered below. Minimum requirement + 50%. Exclude head contractor preliminaries and marpins.		
oncrete in-situ	s10 MPa			3	11 ⁴	Please enter reinforcing steel as part of "Reinforcing steel" below	01_58 or 02-11	02 or 03
ancrete in-situ	>10 MPs to ±20 MPs				11	Please enter reinforcing steel as part of "Reinforcing steel" below	01_58 or 02-11	02 or 03
ancrete in-situ	+20 MPa to x32 MPa	1			m*	Please enter reinforcing steel as part of "Reinforcing steel" below	01_58 or 02-11	02 or 03
oncrete in-stu	>32 MPs to #40 MPs				01	Pease enter reinforcing steel as part of "Reinforcing steel" below	01_58 or 02-11	02 or 03
anothe masks	and title to all title			-	-	Dasag anter ramburing shall as part of "Databuring shall halow	01 58 er 02.11	02 or 03
oncrete in ally	AD HOR IN ADD HOR			-	2	These even and any even as part of "San broken start" below	01 68 or 05.11	42 or 63
sacrete in ally	of the track MPa	1	6		-	Desse enter reinforcing steel as part of "Gainforcing steel" below	01 58 er 02.11	02 ~ 03
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and the second s	-100 MPB 10 K100 MPB	1.			-	rease and rear removing soon as part of "Reinforcing steer below	01_00001000111	02 00 03
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oncrete pre-casit panel	2	15	10		-	vrease enter reinforcing steel in relevant line flows below. If not known at DA stage, please make your best estimate. If not known at CC stage, please ask your suppler.	01_58 or 02-11	02 or 03
oncrete block	Hollow core	32	22		m*	Enter as <u>cubic metres</u> , calculated as (area in m ²) * (thickness in mm./ 1000). Dease include all block fill coverants and all reinforcion sheal in relevant line have abrive/helow	01_58	02 or 03
oncrete Binck brick	Srat				-	Enter as cubic metres, calculated as (area in m ²) * (Bicliness in mm / 1000).	01.58	02 or 03
oncrete block/brick	Seld AAC	100			-	Solid Aerated Autoclaved Concrete (AAC) block.	01.58	62 er 03
						Enter as <u>cubic metres</u> , calculated as (area in m ^e) * (thickness in mm / 1000).		
lotar	1.5	1.1	200 a		10		01_58	42 or 03
enforcing steel	Bar & mesh	8	241		10	Include all reinforcing steel barrinesh in the building's structure in this row. Usually the is calculated as kgint per concrete element and then summed. Example: 10 m ² of 40 MPa concrete \$100 barries 5 mill of 50 MPa concrete all 100 barries 1 700 barries tabal	01_58 ar 02-11	02 or 03
Seinforcing steel	Fibre & strand	1.1.1			kg.	include all steel hore reinforcing and steel strand in the building's structure in this	01 58 or 02-11	02 or 03
huttural steel	Hat roled structural				1	Examples include universal beams, universal columns and welfed beams	01.58	62 or 03
muttural steel	Cold formed structural	100	1			Examples include C nucles 7 nucles and all light nause sheet travers	01.58	02 or 03
Province and a	Other welded structural				-	complete include & particle, a particle and an effective states of the state	01.58	02 or 03
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An order an entern	Theat				-	Four any advisice or compound here	01.50	12 44 43
	Joest	V.			10		01_30	02.01.03
The skin of the building that separate This includes the roof cladding, wall o walls. Coverage of envelope material spend	s the internal building from the ladding, windows, doors and in ,	external environment. dernaliexternal shading.	It also includes insulation	and the internal wall lin	ning of envelope	Resulted. Coverage of gapping for the envelope terms you have entered below. Women requirement: EVS: Councils hand contention preliminaries and experts. Enter an eff of the area for field advected for inveltion the nortical particular. There are a set of the nortical particular terms of the nortical particular.]	
Roof cladding	Profiled silee!	8	2		-	all metal-coaled and pre-painted steel sheets where sheet is the base metal. Examples include: galvanized steel, pro-painting (procalume) coaled steel and pro-alumnium-magnesium (ZAM) coated steel, whether painted or unpainted.	05_RF	03 or 04
Roof cladding	Profiled aluminium		*		~	Enter as m ² of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted atuminum sheets.	05_RF	03 or 64
Roof cledding	Profiled and	*	8		-	Enter as m ⁴ of roof area. Exclude allowances for overlap in the roofing sheets. This row also includes pre-painted zinc sheets.	05_FF	03 or 04
Reof cladding	Membrane	×			e*	Enter as m ⁴ of root area. Exclude allowances for overlap in the membrane sheets.	04_RF	03 or 04
losf ciedding	Tiles (traditional city)				-	Enter as m ⁴ of roof area. Exclude allowances for overlap between the ties.	05_04	03 or 04
loof cladding	Tiles (concrete)				a* .	Enter as m ^a of roof area, Exclude allowances for overlap between the tiles.	01_R#	03 or 04
loof cledding	Other (Please describe >>)		-		*	Pease enter a description for any roofing that does not fit a predefined classification	05_RF	03 or 04
Vall cladding	Bricks (traditional clay)	P1 + (10 ⁴	Enter as m ⁴ of wall area	06_EW	03 or 04
Vall cladding	Bricke (concrete)	10			**	Enter as m ⁴ of well area	06_EW	03 or 04
Wall cledding	Nortar and render				kp.		06_EW	03 or 04
Val cledding	Profiled steel	2	8		~	Enter as inf of wait area. Euclude allowances for overlap in the cladding sheets, officuts, etc. This row includes all instal-coated and pro-parited steel sheets where steel is the base inefail. Examples include: gainvaries discut zin-adumnum (zincature) coated steel and zin-adumnum- mannesum (Zincature) whether camine or uncertaint.	ol_ew	03 or 04
Wall cledding	Profiled aluminum	8	5		-	Enter as of ef wall area. Exclude allowances for overlap in the cladding sheets, offcuts, etc. This row also includes pre-partied aurimum sheets.	06_EW	03 or 04
Wall cladding	Profiled zinc	8	8		-	Enter as m ⁴ of wall area. Exclude allowances for overlap in the cladding sheets, officuts, etc. This row also includes pre-partied cinc sheets.	06_EW	03 or 04

Enter as inf of wall area. Exclude allowances for overlap between

Enter as m^e of wall area. Exclude allowances for offcuta, etc.

Wall cledding

Wall cledding

Fibre cement board

Instructions: Explains purpose of form; that minimum of 80% of cold shell emissions required; and that this form is an interim arrangement to be superseded by NABERS framework when available in 2024

Instructions

Step 1 – About the building Step 2 – Quantities of materials Step 3 – Certification

Step 1: About the Building: Project address, sizes and metrics, location, key materials – noting that this could be a cover sheet

Step 2: Material Quantities: Itemised list of materials, separated into budling components and specific materials; prompt to comment on sub materials; designed so that emissions factors could be added later

- Substructure
- Superstructure
- Internal walls (structural)
- Façade

03 or 04

03 or 04

03 or 04

01_EW

06 EW

- External works
- Services \$\$

_	
Ir	nstructions
	Step 1 – About the building
	Step 2 – Quantities of materials
	Step 3 - Certification

Step 3: Certifier details	Fill out blue cells	
The material quantities must be determined through an itemise and certified by a quantity surveyor, designer, engineer or NAB	d list of building materials (such as a bill of q ERS Assessor.	uantities)
Person that completed this form	Value	Note
Name		Required
Company		Required
ABN		
Profession		Required
Qualification or registration		Required
Person that certified the details in this form	Value	Note
Name		Required
Company		Required
ABN		
Profession		Required
Qualification or registration		Required
Confirmation of certification	Value	Note
Are 80% of material costs captured for the building's structure, envelope and external works?	Please select	Required
If no - why not?		
Additional comments from data provider		

Instructions: Explains purpose of form; that minimum of 80% of cold shell emissions required; and that this form is an interim arrangement to be superseded by NABERS framework when available in 2024

Step 1: About the Building: Project address, sizes and metrics, location, key materials – noting that this could be a cover sheet

Step 2: Material Quantities: Itemised list of materials, separated into budling components and specific materials; prompt to comment on sub materials; designed so that emissions factors could be added later

- Substructure
- Superstructure
- Internal walls (structural)
- Façade
- External works
- Services \$\$

Step 3: Certification: Identify who has filled in the form and the details of the professional who has verified it

NSW Planning Portal



Digital update – Embodied Emissions reporting – DA

Embodied emissions for non-residential development

Does the NABERS Embodied Emissions Materials Form accompany this application? * <u>What is this?</u>

OYes ONo

This application must be accompanied by a NABERS Embodied Emissions Materials Form certified by an engineer, qualified designer, quantity surveyor or NABERS assessor and include a bill of quantities. Refer to the <u>Embodied Emissions Technical</u> Note for guidance.

[If yes] Provide details of the qualified person certifying the embodied emission amounts disclosed in the form *

First name	Surname	Qualification		Registration
Business name	ABN	Designer Engineer		
		NABERS assessor Quantity surveyor		

Has a voluntary NABERS Agreement to Rate relating to embodied emissions been prepared for each large commercial development type?*



Low emissions construction technologies

Describe any low emissions construction technologies used in the development * <u>What is this?</u>

Examples include modular construction systems, parametric design to optimise structures, robotic fabrication to reduce product waste, carbon neutral manufacturing practices or materials that include recycled content, locally sourced materials and other innovations.

Is the development designed to retain or reuse an existing building?*



[If yes] What percentage of the total development has been re-used? * _____%

Is the development designed to use recycled materials (optional)?

OYes

ONo

Has a whole of Life Cycle Analysis (LCA) been prepared (optional)?

OYes

ONo

NSW Planning Portal



Digital update – Embodied Emissions reporting – CC

Embodied emissions for non-residential development

Does the NABERS Embodied Emissions Tool accompany this application?

OYes

ONo

[If yes] Provide details of the qualified person certifying the embodied emission amounts disclosed in the form *



Note: that the reporting form will be updated in the NSW Planning Portal when the NABERS Embodied Emissions Framework is released.

Embodied emissions reporting process



Applicant steps

- Review policy provision and technical note relating to embodied emissions reporting and low emissions construction technology.
- **DA-** Download the NABERS Embodied Emissions Materials Form from the NABERS website, complete all tabs for at least 80% materials
- **DA-** Consider whether to enter a voluntary NABERS Agreement to Rate relating to embodied emissions
- **DA-** Enter data about emissions reporting and low emissions technology into the NSW Planning Portal and upload form
- **CC or crown building works** Update embodied emissions form an upload to NSW Planning Portal and answer questions.

Embodied emissions reporting process



Applicant steps

- Review policy provision and technical note relating to embodied emissions reporting and low emissions construction technology.
- **DA-** Download the NABERS Embodied Emissions Materials Form from the NABERS website, complete all tabs for at least 80% materials
- **DA-** Consider whether to enter a voluntary NABERS Agreement to Rate relating to embodied emissions
- **DA-** Enter data about emissions reporting and low emissions technology into the NSW Planning Portal and upload form
- **CC or crown building works** Update embodied emissions form an upload to NSW Planning Portal and answer questions.

Assessor steps

- Confirm that the Sustainable Buildings SEPP applies to the development by checking chapter 3.1 of the policy
- **DA** Review answers to the low emission construction technology questions in the NSW Planning Portal.
- **DA** Check that emissions report and Bill of Quantities or Quantity Surveyor's report has been uploaded to the NSW Planning Portal and verified as required.
- **CC or crown building works** Review resubmitted form at construction certificate phase.

3. Net Zero Statement



Policy provisions for certain SSD and large commercial development September 2023 **Jillian Hopkins** Principal Design Advisor GANSW





C

Net Zero Statement



leasure		Net Zero Statement		
Policy requirement		 Demonstrate that the development will: not use fossil fuels onsite, or incorporates the infrastructure, or space for the infrastructure, necessary for the development to not use fossil fuels onsite after 1 January 2035 The statement must be certified by a mechanical or electrical engineer 		
Application		Prescribed Large Commercial and Prescribed State Significant Development (health, education, cultural)		
SEPP reference:		Clause 3.3 for Large Commercial and Clause 3.4 for State Significant Development		
Regulation reference:		Schedule 2 (35C) Net Zero statement at DA		
What's new? Net Zero Technical Note		Net Zero technical note and template in final stages; to be released in August 2023. Net Zero trigger questions integrated into the NSW Planning Portal. Correlation with City of Sydney Net Zero Planning Proposal		

Net Zero Statement



Policy provision - extract

State Environmental Planning Policy (Sustainable Buildings 2022)

3.3 Other considerations for large commercial development

(1) In deciding whether to grant development consent to large commercial development, the consent authority must consider whether the development minimises the use of on-site fossil fuels, as part of the goal of achieving net zero emissions in New South Wales by 2050.

3.4 Other considerations for certain State significant development

(1) This section applies to non-residential development that is State significant development specified in <u>State</u> <u>Environmental Planning Policy (Planning Systems) 2021</u>, Schedule 1, sections 13–15.

(2) In deciding whether to grant development consent to development to which this section applies, the consent authority must consider whether the development will minimise the use of on-site fossil fuels, as part of the goal of achieving net zero emissions in New South Wales by 2050.

DA - extract

Amendment of Environmental Planning and Assessment Regulation 2021

35CNet zero statement for non-residential development under Sustainable Buildings SEPP

(1) This section applies to a development application for the following development under State Environmental Planning Policy (Sustainable Buildings) 2022—

(a) large commercial development,

(b) non-residential development that is State significant development specified in State Environmental Planning Policy (Planning Systems) 2021, Schedule 1, sections 13–15.

(2) The development application must include evidence that the development-

(a) will not use on-site fossil fuels after the occupation and use of the development commence, or

(b)incorporates the infrastructure, or space for the infrastructure, necessary for the development to not use on-site fossil fuels after 1 January 2035. Note — Infrastructure includes plant, equipment and ventilation.

(3) The development application must include details of the following -

(a) any renewable energy generation and storage infrastructure forming part of the development,

(b)passive and technical design features that minimise energy consumption by users of the development.

(4) The development application must include the following information if available ---

(a) the estimated annual energy consumption for the building in kilowatt hours per square metre of floor area,(b) the estimated amount of emissions relating to energy use in the building, including direct and indirect emissions.

(5) The evidence and information required to be included in a development application under this section must be certified by a mechanical or electrical engineer.



Net Zero Statement Technical Note



The Net Zero Statement Technical Note outlines how to prepare a Net Zero Statement for large commercial and certain state significant developments (health, education, cultural uses).

The 3-Page Technical Note will be available in September 2023 and is structured under the following headings:

- What is a net zero development?
- How to design for net zero?
- Who can prepare a net zero statement?
- What is included in the net zero statement?
 - Cover letter and verification
 - On-site fossil fuel usage
 - Energy consumption and usage (including calculations)
 - Renewable energy and storage
- Checklist of inclusions
- Further information

Checklist

Cover Letter	
Project details and overview	
Confirm if development is fossil fuel-free or requires a transition strategy.	٥
Certified and signed by a mechanical or	п

Certified and signed by a mechanical or electrical engineer

On-Site Fossil Fuel Usage

If development is fossil fuel-free:

Provide evidence of fossil fuel-free operations If development is fossil fuel dependent:

Provide details of each fossil fuel system used and electrification transition strategy.

Provide evidence the development will operate without fossil fuel by 2035 by confirming it -

Incorporates infrastructure or space for necessary infrastructure to transition – plant, equipment, ventilation etc

Energy Consumption & Use

Have energy reduction initiatives been described for the following? -

Passive design features – building orientation, natural ventilation, insulation, glazing performance, air tightness etc.

Technical design features - energy efficient HVAC and lighting systems, smart controls and occupancy sensors etc.

Renewable Energy and Storage

Have renewable energy or storage initiatives been described? – solar panels, photovoltaics, wind turbines etc.

Estimated Energy Consumption if available

Estimated fossil fuel consumption per year

Estimated electricity consumption per year

Total estimated energy consumption per year kWh/y/m² of GFA

Estimated GHG emissions for energy use if available

Estimated direct (scope 1) GHG emissions per year

Estimated indirect (scope 2 and 3) GHG

Total estimated GHG emissions per year

NSW Planning Portal



Digital update - Net Zero Statement - DA

Net zero statement for non-residential development

Is the development designed to operate as a net zero development immediately? *

OYes

ONo

[If no] Is the development designed to Incorporate infrastructure, or space for the infrastructure necessary for the development to not use on-site fossil fuels after 1 January 2035? *

OYes

ONo

Which of the following net zero provisions has the development incorporated?

- Electric HVAC system
- Future plant space allocated
- Location of current plant room enables future conversion
- Access to plant room enables machinery to be changed over
- Electrified services and appliances
- Renewable energy generation and storage
- Other {please list]

What is the estimated annual energy consumption for the building?

kWh/m²

What is the estimated amount of emissions relating to energy use in the building, including direct and indirect emissions?



Prompt to upload Net Zero Statement

Net Zero Statement process



Applicant steps

- Review policy provision and technical note relating to net zero statement discuss with project team if aiming to operate Net Zero immediately or to transition by 2035.
- **DA** Mechanical or services engineer to prepare Net Zero Statement, including cover sheet and key calculations.
- **DA** Upload Net Zero Statement and fill in key data fields on the NSW Planning Portal.

Net Zero Statement process



Applicant steps

- Review policy provision and technical note relating to net zero statement discuss with policy team if aiming to operate Net Zero immediately or to transition by 2035.
- **DA** Mechanical or services engineer to prepare Net Zero Statement, including cover sheet and key calculations.
- **DA** Upload Net Zero Statement and fill in key data fields on the NSW Planning Portal.

Assessor steps

- Confirm that the project is large commercial and that the SEPP applies.
- **DA** Check that a Net Zero Statement has been uploaded to the NSW Planning Portal. Rely on the verification by qualified professional. Where practical, cross check that the information provided in the statement is reflected in drawings and specifications.

4. Water Standards



Policy provisions for large commercial development September 2023 **Jillian Hopkins** Principal Design Advisor GANSW





Water Standards

3 stars NABERS water rating all large commercial

Measure	Energy standards and offsets			
Policy requirement	At DA, enter a commitment agreement. At CC, report on progress. After OC, demonstrate 24 months after OC that the development has achieved the water standards			
Application	Prescribed Large Commercial only			
SEPP reference:	Clause 3.3 for Large Commercial			
Regulation reference:	Schedule 2 (79A) Energy requirements – condition of DA consent			
What's new?	NABERS Agreement to rate, relating to water, established. Water related questions integrated into planning portal at all phases. Extension of time (1 year) enabled to account for unforeseen circumstances.			

Water Standards



Policy provision - extract

State Environmental Planning Policy (Sustainable Buildings 2022)

3.3 Other considerations for large commercial development

(2) Development consent must not be granted to large commercial development unless the consent authority is satisfied the development is capable of achieving the standards for energy and water use specified in Schedule 3.

(3) For the purposes of subsection (2), development is capable of achieving a standard specified in Schedule 3 if there is a NABERS commitment agreement in place to achieve the standard.

Schedule 3 Standards for energy and water use for large commercial development

2 Water use

The standard for water use for large commercial development is a 3 star NABERS water rating.

DA – extract

Amendment of Environmental Planning and Assessment Regulation 2021

35D Energy and water use for large commercial development under Sustainable Buildings SEPP

(2)The development application must be accompanied by a copy of a NABERS commitment agreement that demonstrates the development is capable of achieving the standards for energy and water use specified in State Environmental Planning Policy (Sustainable Buildings) 2022, Schedule 3.

CC - extract

Amendment of Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021

10BEnergy and water use standards for large commercial development under Sustainable Buildings SEPP

(2) The application must be accompanied by reports about the standards for energy and water use achieved by the development, taking into account the standards specified in State Environmental Planning Policy (Sustainable Buildings) 2022, Schedule 3.

(5) The report for water use may be in the form of annotated drawings and specifications.

NSW Planning Portal



Digital update - Water - DA & CC

Water - DA

Have NABERS Agreement(s) to Rate relating to water use been prepared for each prescribed large commercial use in the development?

OYes

ONo

This application must be accompanied by a NABERS Agreement to Rate to demonstrate the development is capable of achieving the SB SEPP water standards. For mixed use development, separate agreements are required for each prescribed large commercial use.

Enter details of the Agreement(s): *

Type of Agreement	Targeted	Star Rating	Agreement Reference
☑ NABERS Agreement to Rate (Office)	5.5	stars	AR12345
□ NABERS Agreement to Rate (Hotel)	4.0	stars	AR12345
✓ NABERS Agreement to Rate (Motel)	4.5	stars	AR12345
NABERS Agreement to Rate (Serviced Apartment)	4.0	stars	AR12345

Water - CC

What method has been carried out to produce the required water report?

Annotated drawings

Specifications

Other

Provide details and document references for the water report.

Water Standards process



Applicant steps

- Enter into a NABERS Agreement to Rate for each large commercial development type impacted by the water standards, including upfront payment of fee.
- **At DA** Upload NABERS Agreement to Rate and fill in key data fields on the NSW Planning Portal relating to water use.
- At CC or crown building works Answer key data fields relating to water use and cross reference existing specifications and drawings that demonstrate progress.
- At 24 months after occupation Liaise with NABERS to finalise water rating, and upload NABERS certificate to demonstrate onto the NSW Planning Portal.

Water Standards process



Applicant steps

- Enter into a NABERS Agreement to Rate for each large commercial development type impacted by the water standards, including upfront payment of fee.
- **At DA** Upload NABERS Agreement to Rate and fill in key data fields on the NSW Planning Portal relating to water use.
- At CC or crown building works Answer key data fields relating to water use and cross reference existing specifications and drawings that demonstrate progress.
- At 24 months after occupation Liaise with NABERS to finalise water rating, and upload NABERS certificate to demonstrate onto the NSW Planning Portal.

Assessor steps

- Confirm that the project is large commercial or prescribed state significant, and that the SEPP applies.
- At DA Check that a NABERS Agreement to Rate for each large commercial development type impacted by the water standards has been uploaded including upfront payment of fee, and that the targeting star rating aligns with the SB SEPP standard.
- At CC or crown building works Check that relevant data fields have been answered in the NSW Planning Portal and that any measures to reduce water consumption have been reflected in the identified specification or drawings.
- At 24 months after occupation Check that NABERS water rating has been achieved (and certificate uploaded) cross check on NABERS website.

5. Energy Standards



Policy provisions for large commercial development September 2023 **Jillian Hopkins** Principal Design Advisor GANSW





Energy Standards + Offsets

4 stars NABERS energy rating hotels, motels + serviced apartments

5.5 stars NABERS
energy rating offices

Measure			Energy standards and offsets		
Policy requirement		ment	 At DA, enter a commitment agreement. At CC, report on progress and submit Section J report. After OC, demonstrate 24 months after OC that the development: Has achieved the energy standards Has purchased offsets for any performance gap Has purchased offsets for any on site fossil fuel use. 		
Application			Prescribed Large Commercial only		
SEPP reference:		ce:	Clause 3.3 for Large Commercial		
F	Regulation ret	ference:	Schedule 2 (79A) Energy requirements – condition of DA consent		
١	What's new?	Perfor- mance gap report	 NABERS Agreement to rate, relating to energy, established. NSW Performance Gap Assessment template in development. Energy related questions integrated into planning portal at all phases. Extension of time (1 year) enabled to account for unforeseen circumstances. SEPP exemptions for City of Sydney hotels / motels / offices – to direct these development types to the city's energy standards. 		

Energy Standards



Policy provision - extract

State Environmental Planning Policy (Sustainable Buildings 2022)

3.3 Other considerations for large commercial development

(2) Development consent must not be granted to large commercial development unless the consent authority is satisfied the development is capable of achieving the standards for energy and water use specified in Schedule 3.

(3) For the purposes of subsection (2), development is capable of achieving a standard specified in Schedule 3 if there is a NABERS commitment agreement in place to achieve the standard.

(4) Subsection (2), to the extent it relates to energy use, does not apply to large commercial development on land to which the following local environmental plans apply—

- (a) Sydney Local Environmental Plan 2012,
- (b) Sydney Local Environmental Plan (Green Square Town Centre) 2013,
- (c) Sydney Local Environmental Plan (Green Square Town Centre Stage 2) 2013.

(5) Despite subsection (4), subsection (2) applies to large commercial development to the extent that the development relates to prescribed serviced apartments.

Schedule 3 Standards for energy and water use for large commercial development

1 Energy use

(1) The standard for energy use for development for the purposes of prescribed office premises is a 5.5 star NABERS energy rating.

(2) The standard for energy use for development for the purposes of prescribed hotel or motel accommodation is a 4 star NABERS energy rating.

(3) The standard for energy use for development for the purposes of prescribed serviced apartments is a 4 star NABERS energy rating.

(4) To avoid doubt, different standards may apply to the same building if it is used for different purposes.

DA - extract

Amendment of Environmental Planning and Assessment Regulation 2021

35D Energy and water use for large commercial development under Sustainable Buildings SEPP

(2)The development application must be accompanied by a copy of a NABERS commitment agreement that demonstrates the development is capable of achieving the standards for energy and water use specified in State Environmental Planning Policy (Sustainable Buildings) 2022, Schedule 3.

(3)The development application must identify the method under Section J of the Building Code of Australia that will be used to demonstrate the development is capable of achieving the standards for energy use specified in State Environmental Planning Policy (Sustainable Buildings) 2022, Schedule 3.

CC - extract

Amendment of Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021

10BEnergy and water use standards for large commercial development under Sustainable Buildings SEPP

(2)The application must be accompanied by reports about the standards for energy and water use achieved by the development, taking into account the standards specified in State Environmental Planning Policy (Sustainable Buildings) 2022, Schedule 3.

(3) The report for energy use must be in the form of a report under Section J of the Building Code of Australia.

(4)The report for energy use may also —

(a)refer to a performance-based design solution under Section J of the Building Code of Australia, or (b)incorporate a review by a member of an independent review panel under the National Australian Built Environment Rating System, known as NABERS.

NSW Planning Portal



Digital update – Energy – DA & CC

Energy - DA

What is the preferred Section J pathway for this development? *

□ J1V1 NABERS Energy

□ J1V2 Green Star

□ J1V3 Verification using a reference building

□ J1V4 Verification of building envelope sealing

Note: auto-prompt to upload Section J report will appear at CC.

Is the development in the City of Sydney Local Government area?

OYes ONo

[If yes] development is exempt from further energy requirements and can proceed to next stage.

Note: this exemption question will be repeated at CC.

Energy - DA

Have NABERS Agreement(s) to Rate or Commitment Agreement relating to energy use been prepared for each prescribed large commercial use in the development? * What is this?

OYes

ONo

This application must be accompanied by a NABERS Agreement to Rate to demonstrate the development is capable of achieving the SB SEPP water standards. For mixed use development, separate agreements are required for each prescribed large commercial use.

Enter details of the Agreement(s): *

Type of Agreement	Targe	t Rating	Agreement Reference
□ NABERS Commitment Agreement (Office)	5.5	stars	CA1234
□ NABERS Commitment Agreement (Hotel)	4.0	stars	CA1234
NABERS Commitment Agreement (Motel)	4.5	stars	CA1234
□ NABERS Commitment Agreement (Serviced Apartment)	4.0	stars	CA1234
☑ NABERS Agreement to Rate (Office)	5.5	stars	AR12345
□ NABERS Agreement to Rate (Hotel)	4.0	stars	AR12345
NABERS Agreement to Rate (Motel)	4.5	stars	AR12345
NABERS Agreement to Rate (Serviced Apartment)	4.0	stars	AR12345

Energy Standards - Offsets



DA Condition – extract

Amendment of Environmental Planning and Assessment Regulation 2021

79AEnergy and water use for large commercial development under Sustainable Buildings SEPP

(2) It is a condition of the development consent that, within the relevant period, the following must be given to the consent authority using the NSW planning portal —

- (a) an assessment of the NABERS rating for water use achieved by the development, prepared by an assessor accredited by NABERS,
- (b) an assessment of the NABERS rating for energy use achieved by the development, prepared by an assessor accredited by NABERS,
- (c) evidence that the offsets required for the development under this section have been --

(i) for ACCUs or large-scale generation certificates — purchased and surrendered, or (ii) for Climate Active certification — obtained.

(3) The assessment under subsection (2)(b) must specify the following -

(a) the rated annual electricity use,

(b) if the development will not achieve the energy use standards — the difference between the rated annual electricity use and the energy use standards, calculated for the first 5 years of operation,

(c) the rated use of on-site fossil fuels and the associated amount of carbon dioxide measured as carbon dioxide equivalent or CO2e, calculated for the first 10 years of operation.

(4) The consent authority must determine ---

(a) the type of offsets required for particular development according to the following -

	(i) ACCUs or Climate Active certification may be required if the consent authority is satisfied
the	development will use on-site fossil fuels,

(ii)large-scale generation certificates may be required if the consent authority is satisfied the development will not achieve the energy use standards, and (b)the number of offsets required for particular development, using the assessment provided under subsection (2)(b).

Note: policy amendment in progress to provide an option for 1 year extension of time.

Energy Offsets





Energy Standards process



Applicant steps

- Enter into a NABERS Agreement to Rate or NABERS Commitment Agreement for each large commercial development type.
- **At DA** Upload NABERS Agreement to Rate, fill in data fields relating to energy use and identify Section J pathway in NSW planning portal.
- At CC or crown building works Answer data fields relating to energy use and upload Section J report to NSW Planning Portal.
- At 24 months after occupation Finalise NABERS energy rating and upload NABERS certificate onto NSW Planning Portal. Prepare Performance Gap report and purchase offsets required.
- Note: 1 year extension of time may be permitted.

Energy Standards process



Applicant steps

- Enter into a NABERS Agreement to Rate or NABERS Commitment Agreement for each large commercial development type.
- At DA Upload NABERS Agreement to Rate, fill in data fields relating to energy use and identify Section J pathway in NSW planning portal.
- At CC or crown building works Answer data fields relating to energy use and upload Section J report to NSW Planning Portal.
- At 24 months after occupation Finalise NABERS energy rating and upload NABERS certificate onto NSW Planning Portal. Prepare Performance Gap report and purchase offsets required.
- Note: 1 year extension of time may be permitted.

Assessor steps

- Confirm that the project is large commercial or prescribed state significant, and that the SEPP applies.
- At DA Check that a NABERS Agreement to Rate for each large commercial development type impacted by the energy standards has been uploaded including upfront payment of fee, and that the targeting star rating aligns with the SB SEPP standard.
- At CC or crown building works Check that relevant data fields answered and Section J report uploaded to NSW Planning Portal.
- At 24 months after occupation check that NABERS energy rating is achieved and certificate uploaded cross check on NABERS website. Check that Performance Gap report has been prepared and any offsets purchased for the required period.
- Note: 1 year extension of time may be granted.

Sustainable Buildings SEPP



Conclusion and Q&A September 2023 Abbie Galvin Government Architect NSW



Summary



Non residential policy provisions



Timeline



2022 SB SEPP is made	October 2023 SB SEPP goes live Dolicy review and update
DA submitted before 1 October 2023	DA submitted after 1 October 2023 SB SEPP applies
SB SEPP does not apply	Modifying DA submitted pre 1 Oct - does not apply



Q & A



Pre-registered questions:

- What are the cost impacts of the new policy measures?
- Have heritage buildings been considered when preparing for the transition to net zero?
- What are the expected policy updates in 2025 relating to non-residential development?
- What is the relationship between the Department's embodied emissions reporting approach and the Green Star Emissions Calculator?
- How will low emissions materials like mud brick be considered in the emissions reporting?
- Can Councils set higher energy targets under the SEPP?





Thank you!

For more information on the Sustainable Buildings SEPP:

https://www.planning.nsw.gov.au/policyand-legislation/buildings/sustainablebuildings-sepp