



PUBLIC DISCLOSURE STATEMENT

**NECTR
PRODUCT CERTIFICATION
FY2020-21 (PROJECTED)**

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY: HANWHA ENERGY RETAIL AUSTRALIA PTY LTD trading as
NECTR

REPORTING PERIOD: 1 July 2020 – 30 June 2021 (projected)

Declaration

To the best of my knowledge, the information provided in this Public Disclosure Statement is true and correct and meets the requirements of the Climate Active Carbon Neutral Standard.

Signature

Date 16 / 06 / 2021

Name of Signatory

Andrew Butler

Position of Signatory

Managing Director



Australian Government
Department of Industry, Science,
Energy and Resources

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1. CARBON NEUTRAL INFORMATION

Description of certification

Hanwha Energy Retail Australia Pty Ltd trading as Nectr is an Authorised Electricity Retailer. Under this product certification, Nectr is certifying all electricity supplied to customers under the *Nectr Friends Clean* and *Nectr Friends Clean Solar* retail electricity plan as carbon neutral. The component of electricity drawn from the grid and supplied for these plans is assumed to have an average grid emissions profile for the location where it is sold.

The function unit for this certification is a kilowatt hour (kWh) of electricity usage, with emissions expressed in terms of kg of CO₂-e per kWh of electricity sold.

Organisation description

Australian-based, Nectr was launched in late 2019 and is backed by a global leader in renewable energy, including solar power and battery storage technologies – Hanwha Energy. Currently, Nectr provides electricity and new energy solutions within QLD, NSW and SA (from March 2021). Nectr is a 100% owned affiliate of the Hanwha Energy group.

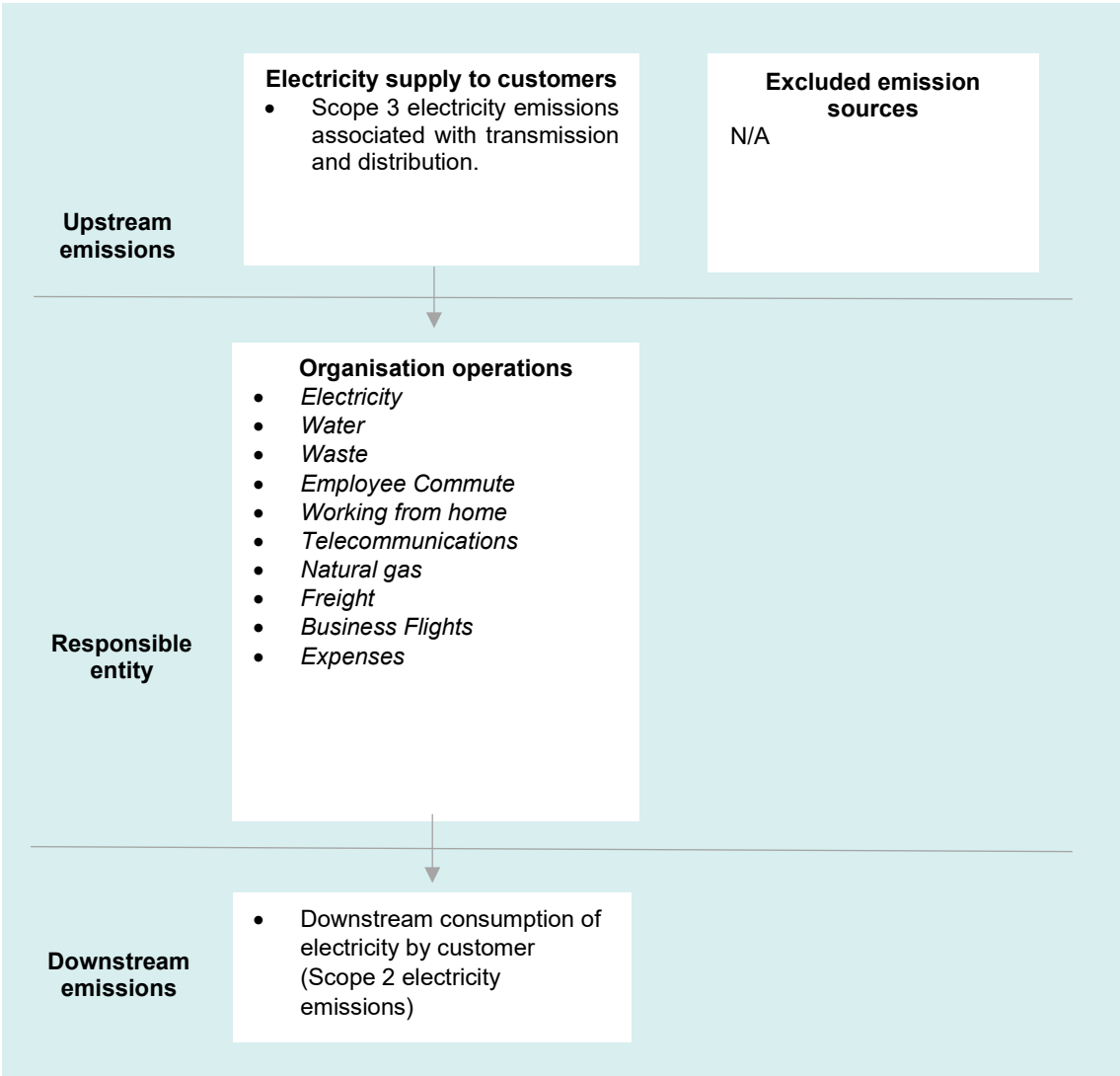
The Hanwha Energy group is a major investor of utility scale solar farms with co-investments in two operating solar farms - the Barcaldine solar farm (Queensland) and Bannerton solar farm (Victoria). Hanwha Energy is currently developing a further two solar farms in New South Wales that will produce enough energy to supply in excess of 65,000 Nectr residential and small business customers.

We believe that every Australian has the right to choose affordable renewable energy and we are committed to offering affordable smarter energy products and plans that are environmentally sustainable and will ultimately allow our customers to control and reduce their energy usage.

“Nectr does and continues to champion for a cleaner, affordable and more sustainable future. This commitment means our customers will be offered the most cost-effective 100% renewable or carbon neutral energy products as a priority and we will invest in projects that proactively focus on reducing the impact of climate change.”

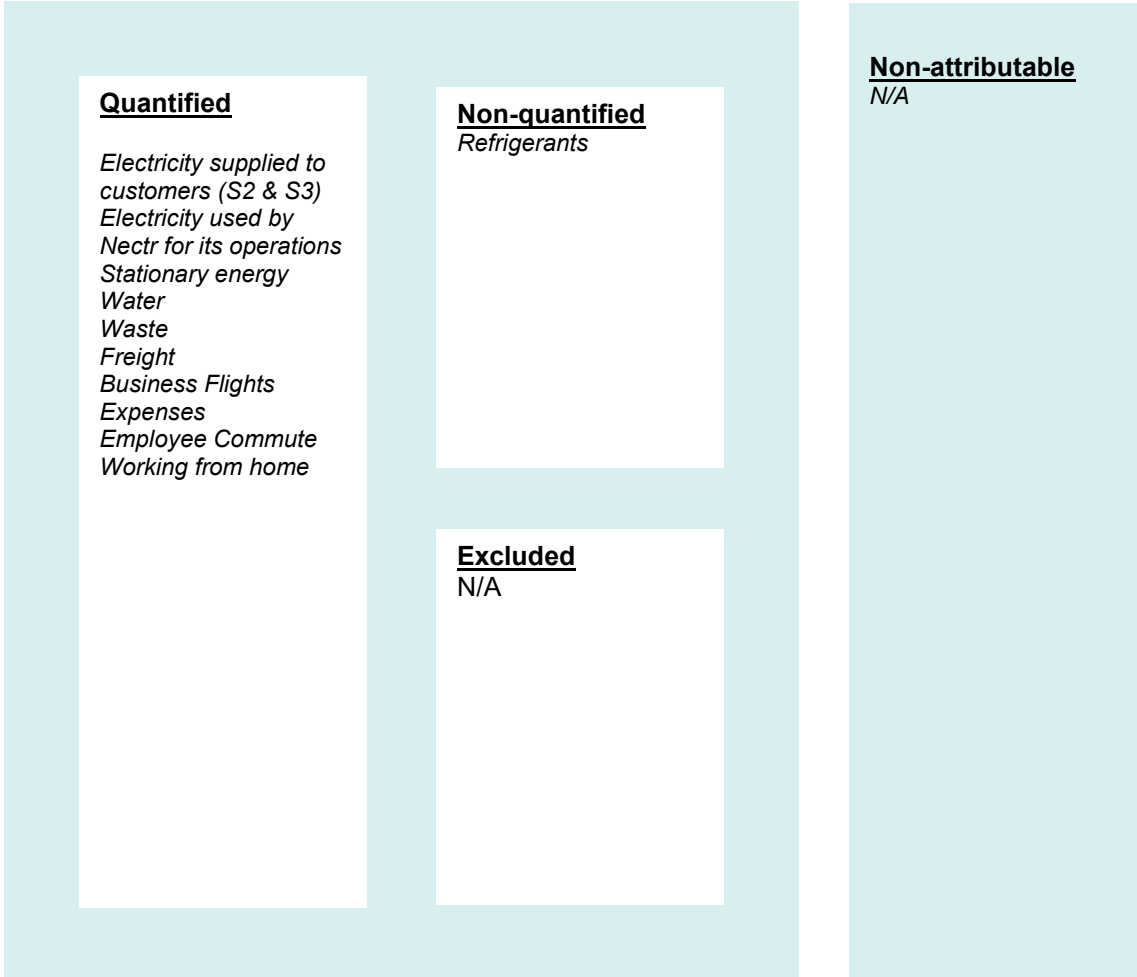
Product/service process diagram

The following diagram is cradle to gate.



2. EMISSION BOUNDARY

Diagram of the certification boundary



Attributable non-quantified sources

Refrigerants.

Data management plan

Although no data was available for the Refrigerants, this source is considered immaterial, and quantification is not cost effective relative to the size of the emission. Therefore, a data management plan is not necessary for this source. However, should these information become more easily available, they will be included in future inventories.

Excluded sources (within certification boundary)

N/A

Non attributable sources (outside certification boundary)

N/A

“Nectr believes that carbon neutral certification provides another level of confidence for our customers and further supports our dedicated efforts to ensuring a cleaner and more sustainable future for our climate.”

3. EMISSIONS SUMMARY

Emissions reduction strategy

At Hanwha Energy, we've implemented a set of initiatives to foster a healthy and ethical corporate culture where everyone is accountable for his/her own conduct and where actions are transparent. Making the environment safe and healthy is our top priority, but at the same time, we strive for shared growth with our partners. And as responsible corporate citizens, we do our best to fulfill our social responsibilities for a sustainable future.

In terms of today's challenging energy environment, our response is a commitment to a set of energy services with a wide range of capabilities. The breadth and depth of Hanwha Energy's offerings distinguishes us from the rest of the energy solutions providers and positions our company to be a clear global industry leader. Our confidence comes from a long-proven track record in energy development and successful operation of global energy projects across diverse areas including solar, cogeneration, ESS, O&M and more recently, hydrogen fuel cell power plants. Our goal is to meet the clean, safe and reliable energy needs of our customers and communities worldwide. Our deep experience and expertise in the energy industry will not only allow us to succeed today but also ensure that the sustainable energy for generations to come.

The initiatives that will form the key elements of Nectr's emission reduction strategy include:

- Prioritising and promoting 100% renewable energy and 100% carbon neutral for all electricity supplied to Nectr customers,
- Development and commissioning two solar farms in NSW that will form the back bone of our grid supply to more than 65,000 Nectr customers, and
- Commercialising a range of residential solar and energy storage (behind the meter renewable energy plans) to compliment grid supplied solar electricity, and
- Invest in environmentally sustainable projects that assist in the reducing the impacts of climate change.

Functional units

Table 2

	Number of functional units
<i>Number of functional units to be forward offset demonstrating commitment to carbon neutrality (true-up to be conducted at the end of the reporting period)</i>	40,478,600

Emissions summary (inventory)

Table 3

Emission source category	tonnes CO ₂ -e
CN Electricity projections	35,531
Professional Services	277.6
Electricity	64.6
Working from home	29.1
Air Transport (km)	22.4
Employee Commute Survey	18.3
Postage, courier and freight	12.3
Stationary Energy	1.8
Waste	1.8
Water	0.5
Accommodation and facilities	0.2
1. Total inventory emissions	35,959.5
2. Emissions per functional unit (based on the number of functional units represented by the inventory) Total kg CO ₂ -e divided by the number of functional units in table 1.	0.89
3. Carbon footprint (Emissions per functional unit (2)* number of functional units (a or b from table 2))	35,959.5

Carbon neutral products

N.A.

4. CARBON OFFSETS

Offset purchasing strategy: forward purchasing. Nectr are forward purchasing offsets for FY20-21 based on projected emissions and that a true-up will occur at the end of the reporting period, noting that additional offsets will be purchased if required.

Table 5

Forward purchasing summary	
1. Total offsets previously forward purchased for this reporting period	0
2. Total offsets required for this reporting period	35,960
3. Net offset balance for this reporting period	35,960
4. Total offsets to be forward purchased for next reporting period	0

Offsets summary

Table 6

1. Total offsets required for this report				35,960					
2. Offsets retired in previous reports and used in this report				0					
3. Net offsets required for this report				35,960					
Project description	Eligible offset units type	Registry unit retired in	Date retired	Serial number (including hyperlink to registry transaction record)	Vintage	Quantity (tonnes CO2-e)	Quantity used for previous report	Quantity banked for future years	Quantity used this report
Natural Capital Unit – Mytrah Wind Project, India stapled with Australian vegetation offset	VCUs	Verra	23 Mar 2021	6918-358598697-358599696-VCU-034-APX-IN-1-1728-01012017-24112017-0	2017	1,000	0	0	1,000
150 MW Wind VCU Carbon Credit Gujarat, India	VCUs	Verra	27 April 2021	9088-67258902-67278901-VCS-VCU-1491-VER-IN-1-292-18062016-31122016-0	2016	20,000	0	0	20,000
Hydropower JHPL VCU Credits India	VCUs	Verra	27 April 2021	7919-441001436-441011435-VCU-001-MER-IN-1-92-01012013-30062013-0	2013	10,000	0	0	10,000
ALLAIN DUHANGAN Hydroelectric Project, India	VCUs	Verra	27 April 2021	9566-108975671-108981670-VCS-VCU-997-VER-IN-1-2026-01012018-31122018-0	2018	6,000	0	1,040	4,960
<i>Total offsets retired this report and used in this report</i>									35,960
<i>Total offsets retired this report and banked for future reports</i>								1,040	

Co-benefits

Natural Capital Units

The Mytrah Wind Power Project in India credits are stapled with an Australian vegetation offset from Bendigo, Victoria (see project details on the following page). The project is ambitious, encompassing regenerative farming, threatened species recovery and work into bio-links.

150 MW grid connected Wind Power based electricity generation project in Gujarat, India

The main purpose of the project is to generate renewable electricity using wind power and feed the generated output to the local grid in Gujarat, contributing to climate change mitigation efforts. In addition to the generation of renewable energy-based electricity, the project has also been conceived to enhance the propagation of commercialisation of wind power generation in the region and to contribute to the sustainable development of the region, socially, environmentally and economically. The proposed project activity leads to alleviation of poverty by establishing direct and indirect employment benefits accruing out of infrastructure development of wind farms, installation work, operation and management of wind farm, providing daily needs, etc. The infrastructure in and around the project area will also improve due to project activity. This includes development of road network and improvement of electricity quality, frequency and availability as the electricity is fed into a deficit grid. The generated electricity is fed into the Western regional Grid through local grid, thereby improving the grid frequency and availability of electricity to the local consumers (villagers & sub-urban habitants) which will provide new opportunities for industries and economic activities to be setup in the area thereby resulting in greater local employment, ultimately leading to overall development.

300MW Hydropower Project by JHPL In India

300 MW Hydropower Project by JHPL. The Baspa project is a run-of-the-river hydro-electric power plant with an installed capacity of 300 MW. The diversion barrage of the project is located across river Baspa, at Kuppa in Himachal Pradesh. The power house is located at Karcham village in Kinnaur District. The project activity is an initiative of Jaiprakash Hydro Power Limited (JHPL) a part of the Jaypee Group. Jaypee is a well-known business group of India and had entered into agreement with State Government of Himachal Pradesh to implement the project. Key Features of the project activity:

- Run-of-the river power project with no water storage with a capacity of 4 hours peaking during a period of 24 hours (design for diurnal storage) when the discharge in the river comes down to 9 cusecs during the winter season.
- Strong sustainable development aspects of the project
- Largest hydro project implemented by private sector in India.
- Its barrage is at an elevation of 2600 metres, the highest altitude for any such structure to come up in India

The Project has improved the infrastructural facilities like water availability, road, and medical facilities. The Project activity brings considerable investment in the region and helps in overall development of the region via following ways:

- Roads have been built in the vicinity of the project
- Eight bridges, spanning up to maximum of 121 metres, were constructed at various locations between Wangtoo, upstream of Nathpa on NH-22 and Kuppa barrage site).
- Funds and expertise for upgrading of existing schools in the region and for developing new ones have been provided
- Health care facilities in the form of a hospital, new dispensary, doctors and medical staff as well as free medicines have been arranged by the company in the vicinity of the project for the benefit of the people of adjoining village

ALLAIN DUHANGAN Hydroelectric Project, India

Allain Duhangan Hydroelectric Project (ADHP) proposed by AD Hydro Power Ltd. (ADPL) is a run-of-the-river 192 MW hydro power project at the confluence of Allain & Duhangan rivulets at Pirni village in Manali town of Kullu district in Himachal Pradesh state of India.

The project has the following co-benefits:

Social well-being:

- The project is implemented in a rural area that does not have proper roads and other infrastructure facilities. The project activity would augment infrastructural development like roads etc. in the area, thus benefitting local communities.
- The project activity would lead to enhanced direct and indirect employment opportunities at all levels from unskilled to skilled workers.

Economic well-being:

- The project activity involves capital investments, thus leading to the overall development of the region.
- The project activities would also lead to enhanced business opportunities for local stakeholders like consultants, suppliers, manufacturers, contractors etc. All this would lead to improved financial security and overall development of the region.

Environmental well-being:

- The project activity being run-of-the-river power project will have minimum environmental impact as compared to a reservoir based hydro power plant.
- Contribute in bridging the demand-supply gap of electricity by producing green energy
- The electricity generated by the project activity will be supplied to the Southern grid, which otherwise would have been generated by fossil fuel fired power plants in the grid.
- The project activity also helps in conservation of depleting fossil fuels which at present are predominantly used for power generation.

Orana Park

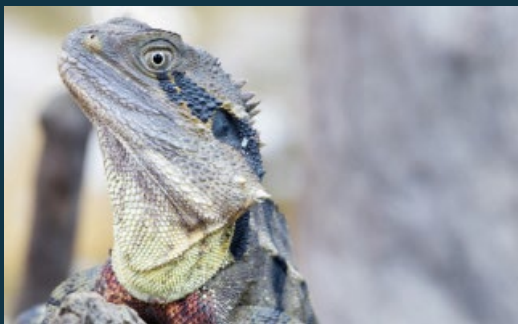
Orana Park is a 4,500ha farm northwest of Bendigo, Victoria owned and operated by the Tiverton Agriculture Impact Fund (TAIF).

TAIF’s work with Orana Park will see the full restoration of riparian vegetation along the banks of the 33km Loddon river as well as a purpose-built wildlife sanctuary.

Orana Sanctuary has been built for Australian threatened species protection and breeding on 200ha of predator- proof land.

The sanctuary will become a new home for the critically endangered Eastern Bettong and Bush Stone Curlew incubation and recovery programs.

Size Hectares	4,580
Riparian Protection	33km
Biodiversity Corridors	800ha
Soil Sequestration	300,000t CO2
Threatened Species	Eastern Bettong
NCU Allocation	95,000



MT ROTHWELL
NATURAL CAPITAL



5. USE OF TRADE MARK

Table 7

Description where trademark used	Logo type
Embedded within our digital and online sign up journey on https://nectr.com.au/	Certified product
On our event sales and marketing displays and collateral	Certified product
On our marketing collateral, brand advertisements and social media communications	Certified product
On our customer communication and documentation including welcome letter, electricity plan agreement and product disclosure statements, electricity invoices and ongoing electronic communication	Certified product

APPENDIX 1

Non-attributable emissions for products and services

To be deemed attributable an emission must meet two of the five relevance criteria. Non-attributable emissions are detailed below against each of the five criteria.

Table 8

Relevance test					
Non-attributable emission	<i>The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>The emissions are from outsourced activities previously undertaken within the organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.</i>

N.A.

APPENDIX 2

Non-quantified emissions for products/services

Please advise which of the reasons applies to each of your non-quantified emissions. You may add rows if required.

Table 9

Non-quantification test				
Relevant-non-quantified emission sources	<i>Immaterial <1% for individual items and no more than 5% collectively</i>	<i>Quantification is not cost effective relative to the size of the emission but uplift applied.</i>	<i>Data unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.</i>	<i>Initial emissions non-quantified but repairs and replacements quantified</i>
Refrigerants	Yes	Yes	No	No