

This report identifies the number and type of credits required at a DEVELOPMENT SITE.

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Development details

Proposal ID: 0082/2014/1214D
Proposal name: Taralga Wind Farm
Proposal address: Old Showground Road Taralga NSW

Proponent name: CBD Energy
Proponent address: Level 2 - Suite 2 53 Cross St Double Bay NSW
Proponent phone: 02 8069 7978

Assessor name: Daniel Williams
Assessor address: Level 1, 62 Clarence Street Port Macquarie NSW 2444
Assessor phone: 6586 8714
Assessor accreditation: 0082

Improving or maintaining biodiversity

An application for a red flag determination is required for the following red flag areas

Red flag	Reason
Ribbon Gum - Narrow-leaved Peppermint grassy open forest on basalt plateaux, Sydney Basin and South Eastern Highlands	Vegetation type being > 70% cleared; or it contains an endangered ecological community;
Snow Grass - Kangaroo Grass - Sheep's Burr grassland on undulating basalt plateaux, South Eastern Highlands	Vegetation type being > 70% cleared; or it contains an endangered ecological community;
River Tussock - Tall Sedge - Kangaroo Grass moist grasslands of the South Eastern Highlands	Vegetation type being > 70% cleared; or it contains an endangered ecological community;
Gang-gang Cockatoo	An impact greater than that allowed;

The application for a red flag determination should address the criteria set out in the BioBanking Assessment Methodology. Please note that a biobanking statement cannot be issued unless the determination is approved.

Additional information required for approval:

- Change to percent cleared for a vegetation type/s
- Use of local benchmark
- Change negligible loss
- Expert report...
- Request for additional gain in site value
- Predicted threatened species not on site
- Change threatened species response to gain (Tg value)

Ecosystem credits summary

Vegetation type	Area (ha)	Credits required	Red flag
Ribbon Gum - Narrow-leaved Peppermint grassy open forest on basalt plateaux, Sydney Basin and South Eastern Highlands	2.15	70.00	Yes
River Tussock - Tall Sedge - Kangaroo Grass moist grasslands of the South Eastern Highlands	0.44	7.00	Yes
Silvertop Ash - Narrow-leaved Peppermint open forest on ridges of the eastern tableland, South Eastern Highlands and South East Corner	4.15	178.00	No
Snow Grass - Kangaroo Grass - Sheep's Burr grassland on undulating basalt plateaux, South Eastern Highlands	0.12	2.00	Yes
Speargrass grassland of the South Eastern Highlands	1.51	19.00	No
Total	8.37	276	

Credit profiles

1. Ribbon Gum - Narrow-leaved Peppermint grassy open forest on basalt plateaux, Sydney Basin and South Eastern Highlands, (HN571)

Number of ecosystem credits created	70
CMA sub-region	Crookwell - Hawkesbury/Nepean
Minimum percent native vegetation cover class	11-30%
Minimum adjacent remnant area class	>100 ha

Offset options - vegetation types	Offset options - CMA sub-regions
Ribbon Gum - Narrow-leaved Peppermint grassy open forest on basalt plateaux, Sydney Basin and South Eastern Highlands, (HN571)	Crookwell - Hawkesbury/Nepean
Ribbon Gum - Narrow-leaved Peppermint grassy open forest on basalt plateaux, Sydney Basin and South Eastern Highlands, (SR601)	Round Mountain
	Ebor Basalts
	Clarence Lowlands
	Richmond - Tweed (Qld - Scenic Rim) (Part A)
	Murwillumbah (Qld - Southeast Hills and Ranges)
	Wollemi - Hawkesbury/Nepean
	Wollemi (Part A)
	Wollemi (Part B)
	Wollemi - Central West
	Capertee (Part A)
	Capertee (Part B)
	Capertee
	Hill End
	Orange - Lachlan
	Orange - Central West
	Bundarra Downs (Part A)
	Yarrowyck-Kentucky Downs
	Bundarra Downs (Part B)
	Yengo - Hawkesbury/Nepean
	Yengo - Hunter/Central Rivers
	Cumberland - Hawkesbury/Nepean
	Cumberland - Sydney Metro
	Wyang
	Walcha Plateau - Hunter/Central Rivers
	Walcha Plateau - Northern Rivers
	Macleay Hastings - Hunter/Central Rivers

Macleay Hastings - Northern Rivers

Armidale Plateau

Upper Manning

Comboyne Plateau - Northern Rivers

Dalmorton

Chaelundi

Coffs Coast & Escarpment

Clarence Sandstones

Rocky River Gorge

Cataract

Beardy River Hills

Deepwater Downs

Glen Innes-Guyra Basalts

Glen Innes-Guyra Basalts (Part A)

Glen Innes-Guyra Basalts (Part B)

Moredun Volcanics

Kanangra - Lachlan

Ettrema

Tingha Plateau

Eastern Nandewars

Eastern Nandewars (Part A)

Binghi Plateau

Jervis

Bungonia - Hawkesbury/Nepean

Sydney Cataract - Sydney Metro

Pittwater

Pittwater (Part B)

Bateman

Illawarra

Severn River Volcanics

Murrumbateman - Murrumbidgee

Murrumbateman - Lachlan

Nightcap

Northeast Forest Lands - Northern
Rivers

Tenterfield Plateau
Kybeyan - Gourcock
South East Coastal Ranges (Part C)
Crookwell - Lachlan
Monaro - Murrumbidgee
MU Fans
Ellerston
Upper Hunter
Kerrabee - Hunter/Central Rivers
Kerrabee - Central West
Kaputar - Border Rivers/Gwydir
Talbragar Valley
Liverpool Range - Hunter/Central Rivers
Liverpool Range - Central West
Liverpool Range - Namoi
Richmond - Tweed (Qld - Scenic Rim)
(Part B)
Pilliga - Hunter/Central Rivers
Pilliga - Central West
Pilliga (Part A)
Pilliga (Part B)
Woodenbong
Peel - Namoi
Peel - Border Rivers/Gwydir
Nandewar, Northern Complex
Inverell Basalts
Upper Slopes - Murray
Upper Slopes - Lachlan
Wollemi (Part C)
Upper Slopes - Central West
Lower Slopes - Murray
Lower Slopes - Murrumbidgee
Lower Slopes - Lachlan
Liverpool Plains (Part A)
Liverpool Plains (Part B)
Stanthorpe Plateau

2. Silvertop Ash - Narrow-leaved Peppermint open forest on ridges of the eastern tableland, South Eastern Highlands and South East Corner, (HN584)

Number of ecosystem credits created	178
CMA sub-region	Crookwell - Hawkesbury/Nepean
Minimum percent native vegetation cover class	11-30%
Minimum adjacent remnant area class	>100 ha

Offset options - vegetation types	Offset options - CMA sub-regions
Silvertop Ash - Narrow-leaved Peppermint open forest on ridges of the eastern tableland, South Eastern Highlands and South East Corner, (HN584)	Crookwell - Hawkesbury/Nepean Round Mountain
Caley's Ironbark - Orange Gum - Black Cypress Pine shrubby open forest of the northern New England Tablelands, (BR125)	East Gippsland Lowlands (Part A) East Gippsland Lowlands (Part B)
Apple Box - Broad-leaved Peppermint dry open forest of the South Eastern Highlands, (CW101)	Ebor Basalts
Blue-leaved Ironbark heathy woodland of the southern part of the Brigalow Belt South Bioregion, (CW114)	Clarence Lowlands
Broad-leaved Peppermint - Brittle Gum - Red Stringybark dry open forest on the South Eastern Highlands, (CW117)	Richmond - Tweed (Qld - Scenic Rim) (Part A)
Broad-leaved Peppermint - Mountain Gum dry open forest of the Central Tablelands area of the South Eastern Highlands, (CW118)	Murwillumbah (Qld - Southeast Hills and Ranges)
Long-leaved Box - Red Box - Red Stringybark sheltered open forest of the NSW South Western Slopes Bioregion (Benson 287), (CW149)	East Gippsland Lowlands (Part C) Wollemi - Hawkesbury/Nepean
Mugga Ironbark - Inland Grey Box - pine tall woodland of the NSW South Western Slopes Bioregion (Benson 217), (CW155)	Wollemi (Part A) Wollemi (Part B)
Mugga Ironbark - Inland Grey Box shrubby woodland of the Brigalow Belt South Bioregion, (CW156)	Wollemi - Central West
Scribbly Gum - Brown Bloodwood woodland on volcanic slopes of the southern Brigalow Belt South Bioregion, (CW186)	Capertee (Part A) Capertee (Part B)
Slaty Gum woodland of the slopes of the southern Brigalow Belt South Bioregion, (CW191)	Capertee
Sydney sandstone hinterland dry sclerophyll forests of the Sydney Basin Bioregion, (CW198)	Bathurst - Hawkesbury/Nepean Bathurst - Central West
Tumbledown Red Gum - Black Cypress Pine - Red Box low woodland of hills of the South Western Slopes, (CW202)	Hill End
New England Blackbutt - Diehard Stringybark dry open forest of the escarpment ranges of the eastern New England Tablelands and North Coast, (HU580)	Orange - Lachlan Orange - Central West
New England Blackbutt grassy open forest of the eastern New England Tablelands, (HU587)	Karuah Manning Yarrowyck-Kentucky Downs
Red Bloodwood - scribbly gum heathy woodland on sandstone plateaux of the Sydney Basin, (HU595)	Yengo - Hawkesbury/Nepean
Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain, Sydney Basin, (HN564)	Yengo - Hunter/Central Rivers Cumberland - Hawkesbury/Nepean
Red Bloodwood - Hard-leaved Scribbly Gum - Silvertop Ash heathy open forest on sandstone plateaux of the lower Shoalhaven Valley, Sydney	Cumberland - Sydney Metro

Basin, (HN565)

Red Bloodwood - Sydney Peppermint - Blue-leaved Stringybark heathy forest of the southern Blue Mountains, Sydney Basin, (HN568)

Silvertop Ash - Blue-leaved Stringybark shrubby open forest on ridges, north east South Eastern Highlands, (HN583)

Silvertop Ash - Broad-leaved Peppermint dry shrub forest of the South Eastern Highlands, (LA201)

Sydney Peppermint - Smooth-barked Apple - Red Bloodwood shrubby open forest on slopes of moist sandstone gullies, eastern Sydney Basin, (ME012)

Red Bloodwood - scribbly gum heathy woodland on sandstone plateaux, Sydney Basin, (ME014)

Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney, Sydney Basin, (ME029)

Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain, Sydney Basin, (ME038)

Red Bloodwood - Smooth-barked Apple shrubby forest on shale or ironstone of coastal plateaux, Sydney Basin, (ME039)

Scribbly Gum - Red Bloodwood heathy woodland on the coastal plains of the Central Coast, Sydney Basin, (HU610)

Slaty Box - Grey Gum shrubby woodland on footslopes of the upper Hunter Valley, Sydney Basin, (HU618)

Smooth-barked Apple - Red Bloodwood open forest on coastal plains on the Central Coast, Sydney Basin, (HU621)

Smooth-barked Apple - Sydney Peppermint - Turpentine heathy open forest on plateaux areas of the southern Central Coast, Sydney Basin, (HU622)

Yellow Bloodwood - ironbark shrubby woodland of the dry hinterland of the Central Coast, Sydney Basin, (HU657)

Apple Box - Broad-leaved Peppermint dry open forest of the South Eastern Highlands, (LA101)

Broad-leaved Peppermint - Brittle Gum - Red Stringybark dry open forest on the South Eastern Highlands, (LA124)

Broad-leaved Peppermint - Mountain Gum dry open forest of the Central Tablelands area of the South Eastern Highlands, (LA125)

Apple Box - Broad-leaved Peppermint - Red Stringybark open forest on hills in the upper NSW South Western Slopes and western South Eastern Highlands Bioregions (Benson 305), (MR508)

Apple Box - Norton's Box - Red Stringybark moist grassy tall open forest of the eastern NSW South Western Slopes and adjoining South East Highlands (Benson 298), (MR511)

Brittle Gum - peppermint open forest of the upper slopes and western tablelands of the South Eastern Highlands (Benson 296), (MR531)

Broad-leaved Peppermint - Candlebark shrubby open forest of montane areas, southern South Eastern Highlands and South East Corner, (MR532)

Broad-leaved Peppermint - Norton's Box - Red Stringybark tall open forest on red clay in hills in the NSW South Western Slopes and adjoining South

Wyong

Barrington

Walcha Plateau - Hunter/Central Rivers

Walcha Plateau - Namoi

Walcha Plateau - Northern Rivers

Macleay Hastings - Hunter/Central Rivers

Macleay Hastings - Northern Rivers

Armidale Plateau

Mummel Escarpment

Upper Manning

Macleay Gorges

Carrair Plateau

Comboyne Plateau - Hunter/Central Rivers

Comboyne Plateau - Northern Rivers

Dalmorton

Chaelundi

Guy Fawkes

Coffs Coast & Escarpment

Clarence Sandstones

Rocky River Gorge

Cataract

Moredun Volcanics

Burragorang (Part A)

Burragorang

Oberon - Hawkesbury/Nepean

Oberon - Lachlan

Oberon - Central West

Kanangra - Hawkesbury/Nepean

Kanangra - Lachlan

Moss Vale - Hawkesbury/Nepean

Moss Vale - Southern Rivers

Ettrema

Eastern Nandewars

Binghi Plateau

East Highlands Bioregions (Benson 297), (MR533)

Red Stringybark - Brittle Gum - Inland Scribbly Gum dry open forest on skeletal hills of the tablelands, South Eastern Highlands, (MR595)

Robertson's Peppermint - Broad-leaved Peppermint - Norton's Box - stringybark open forest of the NSW South Western Slopes and South Eastern Highlands Bioregions (Benson 295), (MR617)

Silvertop Ash - Blue-leaved Stringybark shrubby open forest on ridges, north east South Eastern Highlands, (MR624)

Apple Box - Broad-leaved Peppermint - Red Stringybark open forest on hills in the upper NSW South Western Slopes and western South Eastern Highlands Bioregions (Benson 305), (MU509)

Apple Box - Norton's Box - Red Stringybark moist grassy tall open forest of the eastern NSW South Western Slopes and adjoining South East Highlands (Benson 298), (MU510)

Apple Box - Red Stringybark basalt scree open forest in the upper Murray River region, NSW South Western Slopes Bioregion (Benson 314), (MU511)

Brittle Gum - peppermint open forest of the upper slopes and western tablelands of the South Eastern Highlands (Benson 296), (MU526)

Broad-leaved Peppermint - Candlebark shrubby open forest of montane areas, southern South Eastern Highlands and South East Corner, (MU527)

Broad-leaved Peppermint - Norton's Box - Red Stringybark tall open forest on red clay in hills in the NSW South Western Slopes and adjoining South East Highlands Bioregions (Benson 297), (MU528)

Robertson's Peppermint - Broad-leaved Peppermint - Norton's Box - stringybark open forest of the NSW South Western Slopes and South Eastern Highlands Bioregions (Benson 295), (MU590)

Orange Gum - Caley's Ironbark - Red Stringybark shrub/grass open forest of the southern New England Tablelands, (NA178)

Rough-barked Apple - Red Stringybark shrubby open forest of the western New England Tablelands, (NA194)

Silvertop Stringybark - Rough-barked Apple - Eucalyptus quinniorum shrubby open forest of the southern parts of the New England Tablelands, (NA207)

Bell-fruited Mallee heathy woodland in the Gibraltar Range area of the eastern New England Tablelands, (NR107)

Bell-fruited Mallee tall shrubland on granite outcrops of the New England Tablelands, (NR109)

Blue Mountain Ash - New England Blackbutt tall open forest of the North Coast, (NR128)

Needlebark Stringybark heathy woodland on granitic substrates of the eastern New England Tablelands, (NR202)

Western New England Blackbutt shrubby open forest of the New England Tablelands, (NR277)

Broad-leaved Peppermint - Brittle Gum shrubby open forest on the eastern tablelands, South Eastern Highlands, (SR522)

Broad-leaved Peppermint - Candlebark shrubby open forest of montane areas, southern South Eastern Highlands and South East Corner, (SR523)

Jervis

Bungonia - Hawkesbury/Nepean

Bungonia - Southern Rivers

Pittwater (Part A)

Sydney Cataract - Hawkesbury/Nepean

Sydney Cataract - Sydney Metro

Pittwater

Pittwater (Part B)

Bateman

Illawarra

Severn River Volcanics

Murrumbateman - Murrumbidgee

New South Wales Alps (Part A)

Bondo

Bondo (Part A)

Bondo (Part B)

New South Wales Alps - Murray

New South Wales Alps (Part B)

Wongwibinda Plateau

Nightcap

Northeast Forest Lands - Border Rivers/Gwydir

Northeast Forest Lands - Northern Rivers

Tenterfield Plateau

Tomalla

Kybeyan - Gourock

Kybeyan - Gourock (Part A)

Kybeyan - Gourock (Part B)

South East Coastal Ranges (Part C)

Crookwell - Lachlan

Monaro - Murrumbidgee

Monaro (Part C)

MU Fans

Ellerston

Upper Hunter

Messmate dry shrubby forest on sandstone, far southern South East Corner, (SR577)	Kerrabee - Hunter/Central Rivers
Red Bloodwood - Hard-leaved Scribbly Gum - Silvertop Ash heathy open forest on sandstone plateaux of the lower Shoalhaven Valley, Sydney Basin, (SR594)	Kerrabee - Central West Hunter
Red Bloodwood - scribbly gum heathy woodland on sandstone plateaux, Sydney Basin, (SR595)	Liverpool Range - Hunter/Central Rivers Liverpool Range - Central West
Red Bloodwood - Smooth-barked Apple shrubby forest on shale or ironstone of coastal plateaux, Sydney Basin, (SR597)	Liverpool Range - Namoi
Silvertop Ash - Blue-leaved Stringybark shrubby open forest on ridges, north east South Eastern Highl	Richmond - Tweed (Qld - Scenic Rim) (Part B) Pilliga - Hunter/Central Rivers Pilliga - Central West Pilliga (Part B) Woodenbong Peel - Namoi Upper Slopes - Murray Upper Slopes - Lachlan Wollemi (Part C) Upper Slopes - Central West Liverpool Plains (Part A) Liverpool Plains (Part B) Stanthorpe Plateau

3. Snow Grass - Kangaroo Grass - Sheep's Burr grassland on undulating basalt plateaux, South Eastern Highlands, (HN588)

Number of ecosystem credits created	2
CMA sub-region	Crookwell - Hawkesbury/Nepean
Minimum percent native vegetation cover class	11-30%
Minimum adjacent remnant area class	0-5 ha

Offset options - vegetation types	Offset options - CMA sub-regions
Snow Grass - Kangaroo Grass - Sheep's Burr grassland on undulating basalt plateaux, South Eastern Highlands, (HN588)	Crookwell - Hawkesbury/Nepean

4. Speargrass grassland of the South Eastern Highlands, (HN591)

Number of ecosystem credits created	19
CMA sub-region	Crookwell - Hawkesbury/Nepean
Minimum percent native vegetation cover class	11-30%
Minimum adjacent remnant area class	0-5 ha

Offset options - vegetation types	Offset options - CMA sub-regions
Speargrass grassland of the South Eastern Highlands, (HN591) River Tussock - Tall Sedge - Kangaroo Grass moist grasslands of the South Eastern Highlands, (HN576)	Wollemi - Hawkesbury/Nepean Capertee (Part A) Capertee (Part B) Bathurst - Hawkesbury/Nepean Yengo - Hawkesbury/Nepean Cumberland - Hawkesbury/Nepean Burratorang (Part A) Burratorang (Part B) Oberon - Hawkesbury/Nepean Kanangra - Hawkesbury/Nepean Moss Vale - Hawkesbury/Nepean Bungonia - Hawkesbury/Nepean Sydney Cataract - Hawkesbury/Nepean Pittwater Crookwell - Hawkesbury/Nepean Monaro - Hawkesbury/Nepean Hawkesbury/Nepean - marine zone

5. River Tussock - Tall Sedge - Kangaroo Grass moist grasslands of the South Eastern Highlands, (HN576)

Number of ecosystem credits created	7
CMA sub-region	Crookwell - Hawkesbury/Nepean
Minimum percent native vegetation cover class	11-30%
Minimum adjacent remnant area class	0-5 ha

Offset options - vegetation types	Offset options - CMA sub-regions
River Tussock - Tall Sedge - Kangaroo Grass moist grasslands of the South Eastern Highlands, (HN576)	Crookwell - Hawkesbury/Nepean

Species credits summary

Common name	Scientific name	Extent of impact Ha or individuals	Number of species credits created
Gang-gang Cockatoo	<i>Callocephalon fimbriatum</i>	6.30	126
Little Eagle	<i>Hieraaetus morphnoides</i>	6.30	85
Pink-tailed Worm-lizard	<i>Aprasia parapulchella</i>	2.07	59
Rosenberg's Goanna	<i>Varanus rosenbergi</i>	6.30	210
Striped Legless Lizard	<i>Delma impar</i>	2.07	52