## LEGISLATIVE COUNCIL Question On Notice

### Thursday, 24 March 2022

### 645. Hon Martin Aldridge to the Minister for Regional Development representing the Minister for Energy

- (1) I refer to the media statement issued on 31 January 2022 titled "Christmas 2021 power outage review begins" and Legislative Council question without notice 46, asked on 16 February 2022, and I ask:
- (a) on what date did the Minister receive the report of the independent review mentioned in the statement?
- (2) How many South West Interconnected System customers experienced an outage between 24 and 28 December 2021 and therefore fall within scope of the review?
- (3) Of those identified in (2), how many customers were located in:
- (a) a metropolitan region; and
- (b) a region outside of the metropolitan region?
- (4) Of those identified in (2), please provide a breakdown of customers by locality or suburb?
- (5) Of those identified in (2), how many customers are eligible for an extended outage payment by locality or suburb?
- (6) What was the cost of the independent review?
- (7) I note paragraph 6 of the review terms of reference that suggests the Minister for Energy would outline to the Western Power Chair his expectations in relation to the review and I ask that any correspondence between the Minister and the Chair be tabled?
- (8) Did review chair, Michelle Shepherd, receive full co-operation from Western Power in relation to the conduct of the review?
- (9) If no to (8), what information was withheld from Ms Shepherd and what impact did that have on the review?

#### Answer

- (1) The Minister received the Independent Review Report on Friday 18 March 2022.
- (2) 107,020 supply points experienced one or more outages over the Christmas outage period. This excludes outages that are less than 30 seconds and which were successfully restored via an automatic auto-reclose scheme.

Data relating to outages is recorded from supply points, which does not distinguish between residential and non-residential connections.

- (3) Of the supply points that experienced an outage during the Christmas outage period:
  - (a) 72,914 supply points were located in the metropolitan region
  - (b) 34,106 supply points were located outside of the metropolitan region
- (4) Please see attached 'impacted distinct supply points' which provides impacted supply points by suburb and local government authority. Please see Tabled Paper [ ].

- (5) Please see attached 'suburb count of extended outage'. The number of distinct supply points eligible is 18,053 however some supply points experienced more than one extended outage. Please see Tabled Paper [ ].
- (6) The cost of the Independent Review is \$165,000 (ex-GST), with these costs recouped from Western Power.
- (7) The Minister wrote to the Western Power Chair on 27 January 2022 regarding the expected compliance of Western Power in completion of the review. Please see Tabled Paper [ ].
- (8) The Independent Reviewer advised the Minister that Western Power fully co-operated in the undertaking of the Review.

(9) N/A

MINISTER FOR ENERGY

95/22

BY Suburb	supply point count
ROLEYSTONE	2638
KELMSCOTT	1448
WELLARD	578
NORTHAMPTON	553
SCARBOROUGH	477
DIANELLA	406
NORTH PERTH	376
HILLARYS	331
BALCATTA	318
WOODLANDS	315
BALGA	308
BOUVARD	299
BALDIVIS	273
DOUBLEVIEW	230
HALLS HEAD	226
GREENOUGH	221
SPEARWOOD	206
CAPE BURNEY	205
HERRON	198
HORROCKS	196
ROCKINGHAM	194
GREENFIELDS	190
HILTON	189
SORRENTO	182
MOUNT HAWTHORN	180
NORTH DANDALUP	171
SECRET HARBOUR	170
DALKEITH	166
YOKINE	165
DUNSBOROUGH	154
LOWER CHITTERING	143
MANDURAH	138
BECKENHAM	136
KARRINYUP	136
NOLLAMARA	130
MUNSTER	130
DUDLEY PARK	129
CLOVERDALE	127
PALMYRA	122
MORLEY	118
BASSENDEAN	117
MARTIN	113
MARANGAROO	109
KEYSBROOK	109
CANNINGTON	106
BAYSWATER	106
CRAIGIE	104

MOSMAN PARK	103
GOLDEN BAY	101
CASUARINA	99
LEEDERVILLE	98
HAMERSLEY	97
WOOROLOO	94
WOODBRIDGE	93
SEVILLE GROVE	91
WANNEROO	86
SOUTH YUNDERUP	86
KENSINGTON	86
FALCON	80
KARDINYA	78
GOOSEBERRY HILL	76
EMBLETON	76
STIRLING	76
BATEMAN	75
DARLINGTON	74
NABAWA	74
BUSSELTON	71
SILVER SANDS	71
ROSSMOYNE	71
BINNU	70
NANSON	69
GREGORY	67
SOUTH FREMANTLE	66
YALLINGUP	64
PORT KENNEDY	64
QUEDJINUP	63
RUDDS GULLY	62
CHIDLOW	56
COMO	50
INNALOO	50
ATWELL	50
WESTMINSTER	49
RIVERVALE	49
GWELUP	48
WARWICK	46
AJANA	44
KALAMUNDA	44
MAHOGANY CREEK	42
CARLISLE	42
YUNA	41
GABBADAH	40
OCEAN REEF	39
ALMA	37
BROOKDALE	36
OGILVIE	36
MOUNT LAWLEY	36
CARRAMAR	3/1

MIDLAND	34
BEECHBORO	33
BULLSBROOK	31
MURDOCH	31
KARRAGULLEN	30
DAWESVILLE	30
JANDAKOT	29
BANKSIA GROVE	29
YANCHEP	28
SANDY GULLY	27
WALKAWAY	25
GIDGEGANNUP	23
NOLBA	23
NARALING	22
BICKLEY	21
HILBERT	21
CAVERSHAM	19
LAKE COOGEE	19
GNANGARA	18
EAST YUNA	18
EAST BOWES	18
CARDUP	17
WEMBLEY DOWNS	17
SOUTH GREENOUGH	16
UPPER CAPEL	16
NIRIMBA	16
HERNE HILL	15
PINJARRA	15
CHITTERING	14
BRIGADOON	14
COOLOONGUP	13
BINDOON	13
WEST SWAN	12
HIGH WYCOMBE	12
QUINDALUP	12
NARRA TARRA	11
GEORGINA	11
OLDBURY	11
WELSHPOOL	10
WEST BUSSELTON	10
OAKFORD	10
CARBUNUP RIVER	10
JINDONG	10
DARTMOOR	10
WAGERUP	9
YALLABATHARRA	9
BELHUS	9
WANDANA	9
SERPENTINE	9
ARMADALE	9

WEST BINNU	8
MARDELLA	8
DINDILOA	8
EAST FREMANTLE	7
BOOKARA	7
SOUTH YUNA	7
MAYLANDS	7
BOWES	7
NORTH JINDONG	7
EAST NABAWA	6
PARKERVILLE	6
STAKE HILL	6
BEDFORD	6
JARRAHDALE	6
WEST PINJARRA	5
WHITTAKER	5
NEDLANDS	5
MUNDIJONG	5
HAMMOND PARK	4
IRWIN	4
UPPER SWAN	4
COOLUP	4
BLYTHEWOOD	4
YETNA	4
WANNANUP	3
TOOLIBIN	3
NAMBEELUP	3
ANKETELL	3
MORANGUP	3
GERALDTON	3
LAKE CLIFTON	3
MAIDA VALE	3
NARNGULU	3
MUNDARING	3
MOUNT ERIN	3
PAYNEDALE	3
ASHFIELD	2
AVELEY	2
MIDDLE SWAN	2
APPLECROSS	2
RIVERTON	2
HICKETY	2
HENLEY BROOK	2
DUNCRAIG	2
DONGARA	2
BALLAJURA	2
COOGEE	2
SUCCESS	2
MOUNT NASURA	2
THORNLIE	2

ROCKWELL	2
PADBURY	2
ALLANOOKA	2
TWO ROCKS	2
BEELIAR	2
COOLCALALAYA	1
AUGUSTA	1
VASSE	1
KARAKIN	1
LEDA	1
KARAWARA	1
BANJUP	1
QUINNS ROCKS	1
KULIN	1
RIVERSIDE GARDENS	1
CARINE	1
MULLALOO	1
BENTLEY	1
ILUKA	1
PARMELIA	1
DARLING DOWNS	1
KINGSLEY	1
INGLEWOOD	
VIVEASH	1
BURNS BEACH	1
KWINANA BEACH	1
GIRRAWHEEN	1
WARRENUP	1
EDGEWATER	1
WEMBLEY	1
SAFETY BAY	1
WEST PERTH	1
NORTH BEACH	1
GRANVILLE	1
BOYA	1
WOODRIDGE	1
BUTLER	1
GOSNELLS	1
BELDON	1
BEACONSFIELD	1
CANNING VALE	
GLEN FORREST	1
CONNOLLY	
VICTORIA PARK	1
SINGLETON	1
KOONGAMIA	1
ARROWSMITH	1
WALLISTON	1
ERSKINE	
WANDINA	

123
OSBORNE PARK
KEWDALE
ALEXANDER HEIGHTS
ASHBY
HARRISDALE
MINDARIE
LANDSDALE
ST JAMES
BELMONT
MOONYOONOOKA
BULL CREEK
FAIRBRIDGE
FORRESTFIELD
BOOTENAL
WILLAGEE
SWAN VIEW
CLAREMONT
THE VINES
WOODVALE
NORTHBRIDGE
WUNGONG
HOLMWOOD
PICTON
TRIGG
JOONDANNA
DONNYBROOK
HUNTINGDALE
UDUC
ELLENBROOK
(blank)
Grand Total

Property Suburb	Impacted Distinct Supply Points	Local Government Areas	Geographic Regions
YANCHEP			Perth Metropolitan
DAWESVILLE			Peel
GOSNELLS		The state of the s	Perth Metropolitan
HEATHRIDGE	3,018		Perth Metropolitan
ROLEYSTONE	2,638	City of Armadale	Perth Metropolitan
KATANNING	1,947	Shire of Katanning	Great Southern
MADELEY			Perth Metropolitan
OCEAN REEF			Perth Metropolitan
TWO ROCKS		THE PARTY OF THE P	Perth Metropolitan
BALCATTA		A. C.	Perth Metropolitan
PARMELIA	100 To 10	THE WAY	Perth Metropolitan
EGLINTON WANDINA			Perth Metropolitan
SOUTH YUNDERUP			Mid West
ALKIMOS		La page 2	Peel
MINDARIE		Control of Action Control	Perth Metropolitan
KELMSCOTT		The state of the s	Perth Metropolitan Perth Metropolitan
SPEARWOOD		City of Cockburn	Perth Metropolitan
WANNANUP		TOTAL CONTRACT OF A STATE OF THE STATE OF TH	Peel
COODANUP		To a control of the c	Peel
HIGH WYCOMBE		and any a	Perth Metropolitan
MIDLAND	1,382		Perth Metropolitan
HELENA VALLEY	1,291	Shire of Mundaring	Perth Metropolitan
STIRLING	1,254	City of Stirling	Perth Metropolitan
HAMILTON HILL	1,235	City of Cockburn	Perth Metropolitan
HALLS HEAD	Sc. • Co. 1-150		Peel
YANGEBUP	1,189	City of Cockburn	Perth Metropolitan
THORNLIE			Perth Metropolitan
KEWDALE		City of Belmont (98%), City of Kalamunda (2%)	Perth Metropolitan
KALBARRI	5	Shire of Northampton	Mid West
FALCON		City of Mandurah	Peel
BOULDER ORELIA			Goldfields - Esperance
QUINNS ROCKS		Table 1 and	Perth Metropolitan
PORT DENISON		200 20 2	Perth Metropolitan
BALDIVIS	30. * 130a 8	The second secon	Mid West
GUILDFORD		City of Nockingham	Perth Metropolitan Perth Metropolitan
DONGARA		Shire of Irwin	Mid West
MUNSTER		CONTRACTOR OF THE CONTRACTOR O	Perth Metropolitan
GREENMOUNT		The state of the s	Perth Metropolitan
MULLALOO		THE RESERVE TO SERVE THE S	Perth Metropolitan
SCARBOROUGH		City of Stirling	Perth Metropolitan
NANNUP			South West
CAPEL	757	Shire of Capel	South West
LANGFORD	739	City of Gosnells	Perth Metropolitan
DAYTON	722	City of Swan	Perth Metropolitan
BELDON	716	City of Joondalup	Perth Metropolitan
MOUNT TARCOOLA	690	City of Greater Geraldton	Mid West
MELVILLE		City of Melville	Perth Metropolitan
COOGEE		City of Cockburn	Perth Metropolitan
SOUTHERN RIVER		City of Gosnells	Perth Metropolitan
WOODVALE		City of Joondalup (92%), City of Wanneroo (8%)	Perth Metropolitan
WESTMINSTER		City of Stirling	Perth Metropolitan
HERNE HILL		City of Swan	Perth Metropolitan
WELLARD NORTHAMPTON		City of Kwinana	Perth Metropolitan
TARCOOLA BEACH		Shire of Northampton City of Greater Geraldton	Mid West Mid West
VIVEASH		City of Greater Geraldton	Perth Metropolitan
DOUBLEVIEW		D. T. L. C. C.	Perth Metropolitan
NORTH PERTH		City of Vincent	Perth Metropolitan
NORTH YUNDERUP		Shire of Murray	Peel
NORTH DANDALUP		Shire of Murray	Peel
ERSKINE	476	City of Mandurah	Peel
WOODLANDS	473	City of Stirling	Perth Metropolitan
BOUVARD	465	City of Mandurah	Peel
GUILDERTON	454	Shire of Gingin	Wheatbelt
BOYANUP	452	Shire of Capel	South West
DIANELLA			Perth Metropolitan
DALKEITH			Perth Metropolitan
BUSHMEAD		City of Swan	Perth Metropolitan
PEPPERMINT GROVE BE		Shire of Capel	South West
BELMONT		City of Belmont	Perth Metropolitan
LESCHENAULT			South West
KINGSLEY BASSENDEAN		City of Joondalup	Perth Metropolitan
HUNTINGDALE		Town of Bassendean City of Gosnells	Perth Metropolitan
BEELIAR		City of Goshells	Perth Metropolitan
MANDURAH		F1000 (100 1) (100 100 100 100 100 100 100 100 100 10	Perth Metropolitan Peel
ASCOT		City of Belmont	Perth Metropolitan
MAYLANDS		City of Bayswater	Perth Metropolitan

BAYSWATER	342 City of Bayswater	Perth Metropolitan
FURNISSDALE	333 Shire of Murray	Peel
HILLARYS	332 City of Joondalup	Perth Metropolitan
MAIDA VALE	327 City of Kalamunda	Perth Metropolitan
YOKINE	326 City of Stirling	Perth Metropolitan
RAVENSTHORPE	317 Shire of Ravensthorpe	Goldfields - Esperance
STRATHAM	317 Shire of Capel	South West
WOODRIDGE	314 Shire of Gingin	Wheatbelt
BALGA	313 City of Stirling	Perth Metropolitan
UPPER SWAN	290 City of Swan	Perth Metropolitan
BUNBURY	289 City of Bunbury	South West
WELSHPOOL	273 City of Canning (76%), Town of Victoria Park (24%)	Perth Metropolitan
RIVERVALE	271 City of Belmont	Perth Metropolitan
CAVERSHAM	265 City of Swan	Perth Metropolitan
BENNETT SPRINGS	263 City of Swan	Perth Metropolitan
CLOVERDALE	242 City of Belmont 240 Town of Mosman Park	Perth Metropolitan Perth Metropolitan
MOSMAN PARK HILTON	239 City of Fremantle	Perth Metropolitan
BRUNSWICK	238 Shire of Harvey	South West
ROSSMOYNE	224 City of Canning	Perth Metropolitan
GREENOUGH	223 City of Greater Geraldton	Mid West
CANNING VALE	222 City of Gosnells (63%), City of Canning (37%)	Perth Metropolitan
DUDLEY PARK	215 City of Mandurah	Peel
KARRINYUP	213 City of Stirling	Perth Metropolitan
CRAIGIE	212 City of Joondalup	Perth Metropolitan
CAPE BURNEY	205 City of Greater Geraldton	Mid West
HERRON	200 City of Mandurah	Peel
MORLEY	200 City of Bayswater	Perth Metropolitan
ROCKINGHAM	198 City of Rockingham	Perth Metropolitan
MIDDLE SWAN	197 City of Swan	Perth Metropolitan
SECRET HARBOUR	197 City of Rockingham	Perth Metropolitan
HORROCKS	196 Shire of Northampton	Mid West
GREENFIELDS	192 City of Mandurah	Peel
SORRENTO	187 City of Joondalup	Perth Metropolitan
MOUNT HAWTHORN	182 City of Vincent	Perth Metropolitan
LOWER CHITTERING	177 Shire of Chittering	Wheatbelt
WANGARA	175 City of Wanneroo	Perth Metropolitan
THE VINES	171 City of Swan	Perth Metropolitan
SOUTH BOULDER	167 City of Kalgoorlie-Boulder	Goldfields - Esperance
QUEENS PARK	165 City of Canning	Perth Metropolitan Perth Metropolitan
BELLEVUE DUNCRAIG	161 City of Swan (75%), Shire of Mundaring (25%) 160 City of Joondalup	Perth Metropolitan
KIRUP	160 Shire of Donnybrook-Balingup	South West
BULLSBROOK	159 City of Swan	Perth Metropolitan
DUNSBOROUGH	158 City of Busselton	South West
MILLENDON	157 City of Swan	Perth Metropolitan
CARRAMAR	155 City of Wanneroo	Perth Metropolitan
KENSINGTON	153 City of South Perth (99%)	Perth Metropolitan
BUSSELTON	150 City of Busselton	South West
AUSTRALIND	138 Shire of Harvey	South West
BECKENHAM	138 City of Gosnells	Perth Metropolitan
NOLLAMARA	137 City of Stirling	Perth Metropolitan
COCKBURN CENTRAL	136 City of Cockburn	Perth Metropolitan
GERALDTON	135 City of Greater Geraldton	Mid West
BARRAGUP	134 Shire of Murray	Peel
DARLINGTON	126 Shire of Mundaring	Perth Metropolitan
BEDFORD	124 City of Bayswater	Perth Metropolitan
PALMYRA	124 City of Melville	Perth Metropolitan
WILLAGEE	114 City of Melville	Perth Metropolitan
MARTIN	113 City of Gosnells	Perth Metropolitan
KEYSBROOK	109 Shire of Serpentine-Jarrahdale (79%), Shire of Murray (21%)	Peel
MARANGAROO	109 City of Wanneroo	Perth Metropolitan
GWELUP	108 City of Stirling	Perth Metropolitan
WEST SWAN	108 City of Swan	Perth Metropolitan Perth Metropolitan
CANNINGTON GOLDEN BAY	107 City of Canning 104 City of Rockingham	Perth Metropolitan
CHIDLOW	102 Shire of Mundaring	Perth Metropolitan
PADBURY	101 City of Joondalup	Perth Metropolitan
CASUARINA	100 City of Kwinana	Perth Metropolitan
LEEDERVILLE	100 City of Vincent	Perth Metropolitan
IRWIN	99 Shire of Irwin	Mid West
HAMERSLEY	97 City of Stirling	Perth Metropolitan
SEVILLE GROVE	97 City of Armadale	Perth Metropolitan
WOOROLOO	96 Shire of Mundaring	Perth Metropolitan
JALBARRAGUP	95 Shire of Nannup	South West
SOUTH GUILDFORD	95 City of Swan (100%)	Perth Metropolitan
DARCH	94 City of Wanneroo	Perth Metropolitan
SWAN VIEW	94 Shire of Mundaring (65%), City of Swan (35%)	Perth Metropolitan
WOODBRIDGE	93 City of Swan	Perth Metropolitan
RANGEWAY	92 City of Greater Geraldton	Mid West
BINNINGUP	89 Shire of Harvey	South West

AKE COOCEE	07	City of Cookbase	D. al. M. C. C.
LAKE COOGEE WANNEROO			Perth Metropolitan
		Constant Service Association of the Constant Service S	Perth Metropolitan
AUGUSTA			South West
BROOKHAMPTON			South West
MOUNT LAWLEY			Perth Metropolitan
KAMBALDA WEST			Goldfields - Esperance
KARDINYA			Perth Metropolitan
DONNYBROOK	78	Shire of Donnybrook-Balingup	South West
GOOSEBERRY HILL		S Company of the Comp	Perth Metropolitan
BATEMAN	76	City of Melville	Perth Metropolitan
BULL CREEK	76	City of Melville	Perth Metropolitan
DARLING DOWNS	76	Shire of Serpentine-Jarrahdale	Peel
EMBLETON	76	City of Bayswater	Perth Metropolitan
NABAWA	74	Shire of Chapman Valley	Mid West
COTTESLOE	73	Town of Cottesloe	Perth Metropolitan
MANNING	73	City of South Perth	Perth Metropolitan
SPRINGFIELD	73	Shire of Irwin	Mid West
BELHUS	72	City of Swan	Perth Metropolitan
SOUTH FREMANTLE	72		Perth Metropolitan
VASSE		LOSS NO.	South West
SILVER SANDS		City of Mandurah	Peel
ARMADALE		City of Armadale	Perth Metropolitan
BINNU		Shire of Northampton	Mid West
KOONGAMIA		City of Swan	Perth Metropolitan
NANSON		Shire of Chapman Valley	Mid West
UPPER CAPEL		Shire of Donnybrook-Balingup	South West
MAHOMETS FLATS		City of Greater Geraldton	Mid West
NEERGABBY		STATE OF THE STATE	
		Shire of Gingin	Wheatbelt
APPLECROSS		City of Melville	Perth Metropolitan
GREGORY		Shire of Northampton	Mid West
BASKERVILLE		City of Swan	Perth Metropolitan
YALLINGUP		City of Busselton	South West
EDEN HILL		Town of Bassendean	Perth Metropolitan
PORT KENNEDY	65	City of Rockingham	Perth Metropolitan
QUEDJINUP	63	City of Busselton	South West
ELGIN	62	Shire of Capel	South West
RUDDS GULLY	62	City of Greater Geraldton	Mid West
BIBRA LAKE	61	City of Cockburn	Perth Metropolitan
BRIGADOON	60	City of Swan	Perth Metropolitan
NEWLANDS	59	Shire of Donnybrook-Balingup	South West
BRIDGETOWN	57	Shire of Bridgetown-Greenbushes	South West
WALKAWAY	57	City of Greater Geraldton	Mid West
GNANGARA	56	City of Wanneroo	Perth Metropolitan
СОМО		City of South Perth	Perth Metropolitan
YORK	55	Shire of York	Wheatbelt
GELORUP		Shire of Capel	South West
INNALOO		City of Stirling	Perth Metropolitan
EAST BUNBURY		City of Bunbury	South West
THOMSON BROOK		Shire of Donnybrook-Balingup	South West
ATWELL		City of Cockburn	Perth Metropolitan
KARAKIN		Shire of Gingin	Wheatbelt
DONNELLY RIVER		Shire of Nannup	South West
		·	5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
MOUNT NASURA WARWICK		City of Armadale	Perth Metropolitan
		City of Joondalup	Perth Metropolitan
CARLISLE		Town of Victoria Park	Perth Metropolitan
CURRAMBINE		City of Joondalup	Perth Metropolitan
AJANA		Shire of Northampton	Mid West
BANJUP		City of Cockburn	Perth Metropolitan
BEACONSFIELD		City of Fremantle	Perth Metropolitan
KALAMUNDA		City of Kalamunda	Perth Metropolitan
DEEPDALE	43	City of Greater Geraldton	Mid West
MAHOGANY CREEK		Shire of Mundaring	Perth Metropolitan
GABBADAH		Shire of Gingin	Wheatbelt
YUNA	41	Shire of Chapman Valley	Mid West
HAMEL		Shire of Waroona	Peel
INGLEWOOD	40	City of Stirling	Perth Metropolitan
EDGEWATER	39	City of Joondalup	Perth Metropolitan
HAZELMERE	39	City of Swan	Perth Metropolitan
ALMA	37	Shire of Northampton	Mid West
BROOKDALE		City of Armadale	Perth Metropolitan
WAROONA		Shire of Waroona	Peel
OGILVIE		Shire of Northampton	Mid West
BEECHBORO		City of Swan	Perth Metropolitan
WOORREE		City of Greater Geraldton	Mid West
BOOKARA		Shire of Irwin	Mid West
ALLANOOKA		Shire of Irwin	Mid West
BONNIEFIELD		Shire of Irwin	Mid West
MURDOCH		City of Melville	
CUNDINUP		WORKER WORKER STORM WASHINGTON TO BE AND MANAGEMENT	Perth Metropolitan
		Shire of Nannup (78%), Shire of Donnybrook-Balingup (22%)	South West
DARRADUP		Shire of Danmark	South West
DENMARK	30	Shire of Denmark	Great Southern

Perth Metropolitan 30 City of Armadale KARRAGULLEN Perth Metropolitan 29 City of Wanneroo BANKSIA GROVE Peel 29 Shire of Murray COOLUP Perth Metropolitan 29 City of Swan GIDGEGANNUP Perth Metropolitan 29 City of Cockburn JANDAKOT South West 28 Shire of Nannup CARLOTTA Mid West 27 Shire of Northampton SANDY GUILLY Peel STAKE HILL 27 Shire of Murray Mid West 26 Shire of Mingenew HOLMWOOD Perth Metropolitan 26 City of Wanneroo JINDALEE Mid West 25 City of Greater Geraldton MINNENOOKA Great Southern 24 City of Albany YAKAMIA 23 Shire of Chittering Wheatbelt CHITTERING Mid West 23 Shire of Chapman Valley NOLBA South West NORTH BOYANUP 23 Shire of Capel South West 23 City of Busselton WEST BUSSELTON Mid West 22 Shire of Chapman Valley NARALING South West QUINDALUP 22 City of Busselton Peel RAVENSWOOD 22 Shire of Murray Perth Metropolitan 22 City of Perth (72%), City of Vincent (28%) WEST PERTH Perth Metropolitan 21 City of Kalamunda BICKLEY Perth Metropolitan (100%) 21 City of Armadale (100%) HILBERT South West 21 City of Bunbury SOUTH BUNBURY Mid West 21 Shire of Northampton YALLABATHARRA Wheatbelt 20 Shire of Williams WILLIAMS South West 19 City of Busselton IARRAHWOOD Perth Metropolitan 19 City of Canning SHELLEY Mid West EAST BOWES 18 Shire of Northampton Mid West 18 Shire of Chapman Valley EAST YUNA Wheathelt 18 Shire of York GREENHILLS Perth Metropolitan 18 City of Stirling (100%) WEMBLEY DOWNS South West 17 Shire of Donnybrook-Balingup BRAZIER Peel 17 Shire of Serpentine-Jarrahdale CARDUP 17 Shire of Murray Peel PINJARRA Peel 17 Shire of Murray WEST COOLUP Peel NIRIMBA 16 Shire of Murray Mid West 16 City of Greater Geraldton SOUTH GREENOUGH Mid West YARDARINO 16 Shire of Irwin Perth Metropolitan 14 City of Rockingham COOLOONGUP Wheatbelt 14 Shire of Gingin GINGIN Wheatbelt BINDOON 13 Shire of Chittering Wheatbelt 13 Shire of Koorda BOORALAMING Mid West 13 Shire of Carnamah ENEABBA South West STIRLING ESTATE 13 Shire of Capel South West 12 City of Busselton CARBUNUP RIVER **Great Southern** 12 Shire of Katanning COBLININE South West 12 Shire of Nannup EAST NANNUP Mid West 12 Shire of Mingenew MINGENEW Mid West 12 Shire of Mingenew NANGETTY Perth Metropolitan 12 City of Fremantle WHITE GUM VALLEY South West 11 City of Busselton ANNIEBROOK 11 Shire of Gingin Wheatbelt CARABAN 11 Shire of Donnybrook-Balingup South West CHARLEY CREEK Mid West 11 City of Greater Geraldton GEORGINA South West 11 Shire of Bridgetown-Greenbushes HESTER BROOK Mid West 11 City of Greater Geraldton KOJARENA Mid West 11 Shire of Chapman Valley NARRA TARRA 11 Shire of Serpentine-Jarrahdale Peel OLDBURY Mid West 10 Shire of Three Springs ARROWSMITH EAST Mid West 10 Shire of Chapman Valley DARTMOOR Great Southern GNOWANGERUP 10 Shire of Gnowangerup South West 10 City of Busselton JINDONG South West 10 Shire of Augusta-Margaret River MARGARET RIVER Mid West 10 Shire of Irwin MOUNT HORNER Peel 10 Shire of Serpentine-Jarrahdale OAKFORD Wheatbelt 10 Shire of Wickepin TOOLIBIN South West 10 Shire of Bridgetown-Greenbushes YORNUP Mid West 9 Shire of Three Springs KADATHINNI 9 Shire of Dowerin Wheatbelt MANMANNING South West 9 City of Busselton MARYBROOK Mid West MOONYOONOOKA 9 City of Greater Geraldton Wheathelt 9 Shire of Lake Grace NEENDALING 9 Shire of Harvey South West **ROELANDS** 9 Shire of Serpentine-Jarrahdale Peel SERPENTINE Peel 9 Shire of Waroona WAGERUP Mid West 9 Shire of Chapman Valley WANDANA 9 Shire of Bridgetown-Greenbushes South West WANDILLUP Mid West 8 Shire of Northampton **BOWES** South West CROOKED BROOK 8 Shire of Dardanup Mid West 8 Shire of Chapman Valley DINDILOA 8 Shire of Serpentine-Jarrahdale Peel MARDELLA

MOUNT HARDEY 8 Shire of York Wheatbelt NARRALOGGAN 8 Shire of York Wheatbelt REDCLIEFE 8 City of Belmont Perth Metropolitan WEST BINNU 8 Shire of Northampton Mid West BEELA 7 Shire of Harvey South West BIRCHMONT 7 Shire of Murray Peel EAST FREMANTLE 7 Town of East Fremantle Perth Metropolitan JACKITUP 7 Shire of Gnowangerup Great Southern LAKE CLIFTON 7 Shire of Waroona Peel NORTH JINDONG 7 City of Busselton South West PARKERVILLE 7 Shire of Mundaring Perth Metropolitan SOUTH YUNA 7 Shire of Chapman Valley Mid West ARRINO 6 Shire of Three Springs Mid West BALINGUP 6 Shire of Donnybrook-Balingup South West COWALFILLIP 6 Shire of Gnowangerup Great Southern **EAST NABAWA** 6 Shire of Chapman Valley Mid West HAMMOND PARK 6 City of Cockburn Perth Metropolitan JARRAHDALE 6 Shire of Serpentine-Jarrahdale Peel KAURING 6 Shire of York Wheatbelt NAMBEELUP 6 Shire of Murray Peel **PEMBERTON** 6 Shire of Manjimup South West WELLESLEY 6 Shire of Harvey South West LUDLOW 5 City of Busselton (61%), Shire of Capel (39%) South West MOORIARY 5 Shire of Mingenew Mid West MORANGUP 5 Shire of Toodyay Wheatbelt MUCKENBURRA 5 Shire of Gingin Wheatbelt MULLALYUP 5 Shire of Donnybrook-Balingup South West MUNDIJONG 5 Shire of Serpentine-Jarrahdale Peel NEDLANDS 5 City of Nedlands (90%), City of Perth (10%) Perth Metropolitan **PAYNEDALE** 5 Shire of Donnybrook-Balingup South West PEERABEELUP 5 Shire of Nannup South West 5 City of Greater Geraldton TENINDEWA Mid West WEST PINJARRA 5 Shire of Murray Peel WHITTAKER 5 Shire of Murray Peel ALBANY 4 City of Albany **Great Southern** BALLAJURA 4 City of Swan Perth Metropolitan BEVERLEY 4 Shire of Beverley Wheatbelt BLYTHEWOOD 4 Shire of Murray Peel DALYELLUP 4 Shire of Capel South West DARDANUP 4 Shire of Dardanup South West FAIRBRIDGE 4 Shire of Murray Peel JURIEN BAY 4 Shire of Dandaragan Wheatbelt KALLAROO 4 City of Joondalup Perth Metropolitan KOORDA 4 Shire of Koorda Wheatbelt SOUTH GLENCOE 4 Shire of Katanning **Great Southern** WUNGONG 4 City of Armadale Perth Metropolitan YALYALUP 4 City of Busselton South West YETNA 4 Shire of Chapman Valley Mid West ANKETELL 3 City of Kwinana Perth Metropolitan ARROWSMITH 3 Shire of Irwin Mid West BADGERIN ROCK 3 Shire of Koorda Wheathelt BENTLEY 3 City of Canning (89%), Town of Victoria Park (11%) Perth Metropolitan CANNA 3 Shire of Morawa Mid West 3 Town of Claremont (95%), Town of Cottesloe (3%) CLAREMONT Perth Metropolitan DARDANUP WEST 3 Shire of Dardanup South West FLLENBROOK 3 City of Swan Perth Metropolitan FERNDALE 3 City of Canning Perth Metropolitan FORRESTFIELD 3 City of Kalamunda Perth Metropolitan **GIRRAWHEEN** 3 City of Wanneroo Perth Metropolitan ILUKA 3 City of Joondalup Perth Metropolitan KULIN 3 Shire of Kulin Wheatbelt KWINANA BEACH 3 City of Kwinana Perth Metropolitan KWINANA TOWN CENTR 3 City of Kwinana Perth Metropolitan MANJIMUP 3 Shire of Manjimup South West MERREDIN 3 Shire of Merredin Wheatbelt MORESBY 3 City of Greater Geraldton Mid West MOUNT ERIN 3 Shire of Chapman Valley Mid West MULLEWA 3 City of Greater Geraldton Mid West MUNDARING 3 Shire of Mundaring Perth Metropolitan NARNGULU 3 City of Greater Geraldton Mid West PARKFIELD 3 Shire of Harvey South West PEPPERMINT GROVE 3 Shire of Peppermint Grove Perth Metropolitan **PINWERNYING** 3 Shire of Katanning Great Southern SANDSPRINGS 3 City of Greater Geraldton Mid West SHADFORTH 3 Shire of Denmark Great Southern SINGLETON 3 City of Rockingham Perth Metropolitan TARIN ROCK 3 Shire of Dumbleyung Wheatbelt YALLINGUP SIDING 3 City of Busselton South West YARRAGADEE 3 Shire of Mingenew Mid West YUNDERUP 3 City of Mandurah

2 Town of Bassendean

Perth Metropolitan

**ASHFIELD** 

ATTADALE 2 City of Melville Perth Metropolitan AVELEY 2 City of Swan Perth Metropolitan BOYA 2 Shire of Mundaring Perth Metropolitan **BROOMEHILL WEST** 2 Shire of Broomehill-Tambellup Great Southern BUTLER 2 City of Wanneroo Perth Metropolitan CONNOLLY 2 City of Joondalup Perth Metropolitan EAGLE BAY 2 City of Busselton South West ELLENDALE 2 City of Greater Geraldton Mid West FORREST BEACH 2 Shire of Capel South West FREMANTLE 2 City of Fremantle Perth Metropolitan GEOGRAPHE 2 City of Busselton South West GREENBUSHES 2 Shire of Bridgetown-Greenbushes South West HARRISDALE 2 City of Armadale Perth Metropolitan HENLEY BROOK 2 City of Swan Perth Metropolitan HICKETY 2 Shire of Chapman Valley Mid West IKEWA 2 Shire of Mingenew Mid West JANE BROOK 2 City of Swan Perth Metropolitan LAKELANDS 2 City of Mandurah LESMURDIE 2 City of Kalamunda Perth Metropolitan MADDINGTON 2 City of Gosnells Perth Metropolitan 2 City of Mandurah MEADOW SPRINGS Peel MILLS LAKE 2 Shire of Gnowangerup Great Southern MILO Mid West 2 Shire of Irwin MOUNT BUDD 2 Shire of Mingenew Mid West NEEDILUP 2 Shire of Jerramungup Great Southern NORTH COOGEE 2 City of Cockburn Perth Metropolitan NORTH LAKE GRACE 2 Shire of Lake Grace Wheathelt NORTHBRIDGE 2 City of Perth Perth Metropolitan NORTHCLIFFE 2 Shire of Maniimup South West RIVERTON 2 City of Canning Perth Metropolitan ROCKWELL 2 Shire of Chapman Valley Mid West SHENTON PARK 2 City of Subiaco (96%), City of Nedlands (4%) Perth Metropolitan SOUTH PERTH 2 City of South Perth Perth Metropolitan SOVEREIGN WATERS Perth Metropolitan SUCCESS 2 City of Cockburn Perth Metropolitan TRIGG 2 City of Stirling Perth Metropolitan VICTORIA PARK 2 Town of Victoria Park Perth Metropolitan Perth Metropolitan WARNBRO 2 City of Rockingham WEMBLEY 2 Town of Cambridge (77%), City of Stirling (23%) Perth Metropolitan WEST CASUARINAS 2 City of Greater Geraldton Mid West WHITE PEAK 2 Shire of Chapman Valley Mid West WILBINGA 2 Shire of Gingin Wheatbelt ABBEY 1 City of Busselton South West ALEXANDER HEIGHTS 1 City of Wanneroo Perth Metropolitan **ASHBY** 1 City of Wanneroo Perth Metropolitan AUBIN GROVE 1 City of Cockburn Perth Metropolitan BADGINGARRA 1 Shire of Dandaragan Wheathelt BAKERS HILL 1 Shire of Northam Wheatbelt BALKULING 1 Shire of Quairading Wheathelt BAYONET HEAD 1 City of Albany Great Southern BEECHINA 1 Shire of Mundaring Perth Metropolitan BEERMULLAH 1 Shire of Gingin Wheatbelt BERESFORD 1 City of Greater Geraldton Mid West BERTRAM 1 City of Kwinana Perth Metropolitan BICTON 1 City of Melville Perth Metropolitan RIDDELIA 1 Shire of Nannup South West BLUFF POINT 1 City of Greater Geraldton Mid West BODDINGTON 1 Shire of Boddington Peel **BOORAGOON** 1 City of Melville Perth Metropolitan BOOTENAL 1 City of Greater Geraldton Mid West BRINGO 1 City of Greater Geraldton Mid West BUNJIL 1 Shire of Perenjori Mid West **BURNS BEACH** 1 City of Joondalup Perth Metropolitan BURNSIDE 1 Shire of Augusta-Margaret River South West **BYFORD** 1 Shire of Serpentine-Jarrahdale Peel CARABOODA 1 City of Wanneroo Perth Metropolitan CARINE 1 City of Stirling Perth Metropolitan CARLOTTA BROOK 1 Shire of Nannup South West CHURCHLANDS 1 City of Stirling Perth Metropolitan CLARKSON 1 City of Wanneroo Perth Metropolitan CODJATOTINE 1 Shire of Wandering Wheatbelt COLLIE 1 Shire of Collie South West COOKERNUP 1 Shire of Harvey South West COOLBELLUP 1 City of Cockburn Perth Metropolitan COOLCALALAYA 1 Shire of Northampton Mid West CORRIGIN 1 Shire of Corrigin Wheatbelt DOODLAKINE 1 Shire of Kellerberrin Wheatbelt DUDININ 1 Shire of Kulin Wheatbelt DUMBARTON 1 Shire of Toodyay Wheatbelt DWELLINGUP 1 Shire of Murray

1 City of Perth (98%), City of Vincent (2%)

Perth Metropolitan

EAST PERTH

FACT DOCKINGUANA	4 Charles Links	D. al. M. A. Brandlin
EAST VICTORIA BARK	1 City of Rockingham 1 Town of Victoria Park	Perth Metropolitan Perth Metropolitan
EAST VICTORIA PARK FITZGERALD	1 Shire of Ravensthorpe	Goldfields - Esperance
FLOREAT	1 Town of Cambridge (87%), City of Nedlands (13%)	Perth Metropolitan
GLEN FORREST	1 Shire of Mundaring	Perth Metropolitan
GLENLYNN	1 Shire of Bridgetown-Greenbushes	South West
GNARABUP	1 Shire of Augusta-Margaret River	South West
GRANVILLE	1 Shire of Gingin	Wheatbelt
GREENWOOD	1 City of Joondalup	Perth Metropolitan
GWINDINUP	1 Shire of Capel	South West
HAYNES	1 City of Armadale	Perth Metropolitan
HAZELVALE	1 Shire of Denmark	Great Southern
HESTER	1 Shire of Bridgetown-Greenbushes	South West
HILLMAN	1 City of Rockingham	Perth Metropolitan
HILLSIDE	1 Shire of Narrogin	Wheatbelt
JERRAMUNGUP	1 Shire of Jerramungup	Great Southern
JOONDANNA	1 City of Stirling	Perth Metropolitan
KALGOORLIE	1 City of Kalgoorlie-Boulder	Goldfields - Esperance
KAMBALDA	1 City of Kalgoorlie-Boulder	Goldfields - Esperance
KANGAROO GULLY	1 Shire of Bridgetown-Greenbushes	South West
KARAWARA	1 City of South Perth	Perth Metropolitan
KARLOO	1 City of Greater Geraldton	Mid West
KENWICK KINGS PARK	1 City of Gosnells 1 City of Perth	Perth Metropolitan
KULIKUP	1 Shire of Boyup Brook	Perth Metropolitan South West
LANDSDALE	1 City of Wanneroo	Perth Metropolitan
LEDA	1 City of Walmeroo	Perth Metropolitan
LEDGE POINT	1 Shire of Gingin	Wheatbelt
LOCKRIDGE	1 City of Swan	Perth Metropolitan
LOCKYER	1 City of Albany	Great Southern
LOWDEN	1 Shire of Donnybrook-Balingup	South West
LOWER KING	1 City of Albany	Great Southern
MERRIWA	1 City of Wanneroo	Perth Metropolitan
MILING	1 Shire of Moora	Wheatbelt
MINDARABIN	1 Shire of Gnowangerup	Great Southern
MINNIVALE	1 Shire of Dowerin	Wheatbelt
MOOJEBING	1 Shire of Katanning	Great Southern
MORAWA	1 Shire of Morawa	Mid West
MOUNT CLARENCE	1 City of Albany	Great Southern
MOUNT PLEASANT	1 City of Melville	Perth Metropolitan
MUCHEA	1 Shire of Chittering	Wheatbelt
MUMBERKINE	1 Shire of Goomalling	Wheatbelt
MYALUP	1 Shire of Harvey	South West
NARROGIN	1 Shire of Narrogin	Wheatbelt
NILGEN	1 Shire of Gingin	Wheatbelt
NORTH BEACH	1 City of Stirling	Perth Metropolitan
NORTH FREMANTLE	1 City of Fremantle	Perth Metropolitan
NUNILE OSBORNE DARK	1 Shire of Toodyay	Wheatbelt
OSBORNE PARK	1 City of Stirling (100%) 1 City of Bunbury	Perth Metropolitan South West
PELICAN POINT PERTH	1 City of Buildary 1 City of Vincent (52%), City of Perth (48%)	Perth Metropolitan
PICTON	1 City of Bunbury	South West
PITHARA	1 Shire of Dalwallinu	Wheatbelt
QUAIRADING	1 Shire of Quairading	Wheatbelt
RIVERSIDE GARDENS	1	Perth Metropolitan
RIVERVIEW	1	Perth Metropolitan
ROSA BROOK	1 Shire of Augusta-Margaret River	South West
ROSA GLEN	1 Shire of Augusta-Margaret River	South West
SAFETY BAY	1 City of Rockingham	Perth Metropolitan
SHOALWATER	1 City of Rockingham	Perth Metropolitan
SOUTHERN CROSS	1 Shire of Yilgarn	Wheatbelt
ST JAMES	1 City of Canning (62%), Town of Victoria Park (38%)	Perth Metropolitan
STRATHALBYN	1 City of Greater Geraldton	Mid West
SUBIACO	1 City of Subiaco (100%)	Perth Metropolitan
SWANBOURNE	1 City of Nedlands (50%), Town of Claremont (50%)	Perth Metropolitan
TAKALARUP	1 Shire of Plantagenet	Great Southern
THE PLAINS	1 Shire of Capel	South West
TUART HILL	1 City of Stirling	Perth Metropolitan
UDUC	1 Shire of Harvey	South West
USHER	1 City of Bunbury 1 City of Greater Geraldton (93%) Shire of Chapman Valley (7%)	South West
WAGGRAKINE	1 City of Greater Geraldton (93%), Shire of Chapman Valley (7%)	Mid West
WALLISTON WARRENUP	1 City of Kalamunda 1 City of Albany	Perth Metropolitan Great Southern
WEST LEEDERVILLE	1 Town of Cambridge	Perth Metropolitan
WHITBY	1 Shire of Serpentine-Jarrahdale	Peel
WICHERINA	1 City of Greater Geraldton	Mid West
WILSON	1 City of Canning	Perth Metropolitan
WILYABRUP	1 City of Busselton	South West
YARLOOP	1 Shire of Harvey	South West
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# Hon Bill Johnston MLA Minister for Mines and Petroleum; Energy; Corrective Services; Industrial Relations

Our Ref: 71-23369

Mr Colin Beckett Chair Western Power

رراتم Dear Mr Beckett

I am writing to advise you that I have commissioned an Independent Review of the Christmas 2021 power outages (Review), which affected approximately 34,000 customers on the Western Power network between 24 and 28 December 2021.

The Review will commence on Monday, 31 January 2022, and will conclude with a report outlining findings and recommendations, which I expect by Monday 14 March 2022.

Please find attached the Review *Terms of Reference* for your information. The Review will include a summary of the outages and the reason for each outage, having regard to a range of matters including, but not limited to, network design, planning, historical performance and maintenance, as well as operational planning and load forecasting. The scope of the Review will also look at Western Power's operational response and risk assessment during the events, communication with external parties, and its compliance with existing regulatory, statutory and market obligations.

I have appointed Ms Michelle Shepherd, currently a Commissioner at the Australian Energy Market Commission, to the role of Independent Reviewer. Ms Shepherd will be supported by a technical advisor as required, as well as Energy Policy WA staff, who will provide a secretariat function and host Ms Shepherd at their offices.

Please note that while the Independent Reviewer is not provided with statutory authority to collect information for this Review, it is my expectation that Western Power will cooperate fully with any requests for information and interviews made by the Independent Reviewer.

The timely provision of fulsome information to the Independent Reviewer is essential to the accuracy and success of this Review, which may require dedicated Western Power resources for the duration of the Review. I trust that Western Power will ensure resources with the appropriate skills and capacity are made available and will provide details for key contacts to the Review team.

Lastly, while I have appointed Ms Shepherd as the Independent Reviewer, Energy Policy WA will be contracting with Ms Shepherd directly. Energy Policy WA will then invoice Western Power for the cost of these services. I understand that these costs are estimated to be in the order of \$150,000 (ex-GST), and I ask that Western Power cooperate with Energy Policy WA in the payment of these invoices.

Thank you in advance for your assistance in this Review, and I look forward to reading the findings and recommendations.

Yours sincerely

Hon Bill Johnston MLA

Minister for Mines and Petroleum; Energy;

Corrective Services; Industrial Relations

27 JAN 2021

Att. Independent Review into the Christmas 2021 Power Outages Terms of Reference

cc. Mr Ed Kalajzic Chief Executive Officer, Western Power