

## Network Safety Performance Outcomes (FY 2017/18 Quarter 3)



## CONTEXT AND PURPOSE

This Statement has been prepared and published under regulation 32 of the Electricity (*Network Safety*) Regulations 2015, which require Western Power to publish quarterly outcomes for the network safety performance incident types specified under regulation 31 of the Electricity (*Network Safety*) Regulations 2015. This Statement includes the number of incidents that occurred during the quarter (QTR) and the cumulative number of incidents that occurred during the financial year (YTD).

Description of incident type		Annual Objective 1 July 2017 to 30 June 2020	Outcomes	
			QTR	YTD
30(1)(a): a discharge of electricity from the network that causes the electric shock, injury or death of a person or the death of livestock	Human fatality	0	0	0
	Human injury	8	0 <sup>1</sup>	1
	Livestock fatality	6	0	2
	Electric shock, no injury	239	31	85
30(1)(b): an incident caused by the network, other than a fire, that causes damage to property other than to the network		29	0	0
30(1)(c): a fire caused by the network that causes damage to property other than to the network		86	0	0
30(1)(d)(i): a fire, on a wood pole that is a part of the <u>distribution</u> network, that originated on the pole		455	137	204
30(1)(d)(ii): a fire, on a wood pole that is a part of the <u>transmission</u> network, that originated on the pole		11	6	7
30(1)(e)(i): the contacting of 2 or more conductors of the <u>distribution</u> network, of different phases, caused by temperature variations or wind		130	15	69

<sup>1</sup> In March 2018 an electric shock incident resulting in human injury occurred. This incident is under investigation by the Department of Building and Energy and will be classified once the investigation is complete.

Description of incident type	Annual Objective 1 July 2017 to 30 June 2020	Outcomes	
		QTR	YTD
30(1)(e)(ii): the contacting of 2 or more conductors of the <u>transmission</u> network, of different phases, caused by temperature variations or wind	1	0	0
30(1)(f)(i): an unassisted failure of a <u>hardwood</u> pole that is part of the <u>distribution</u> network	384	175	283 <sup>2</sup>
30(1)(f)(ii): an unassisted failure of a <u>softwood</u> pole that is part of the <u>distribution</u> network	5	2	7
30(1)(f)(iii): an unassisted failure of a <u>steel</u> pole that is part of the <u>distribution</u> network	1	0	0
30(1)(f)(iv): an unassisted failure of a <u>steel</u> streetlight pole	92	10	25
30(1)(f)(v): an unassisted failure of a <u>concrete</u> pole that is part of the <u>distribution</u> network	1	0	0
30(1)(f)(vi): an unassisted failure of a <u>composite fibre, aluminium, or any other type of pole</u> that is part of the <u>distribution</u> network	NA	0	0

<sup>2</sup> Adjustment to failure classification for distribution wood poles has led to the total number of unassisted failures of hardwood poles during quarter 1 and 2 to be reduced by 43.

Description of incident type	Annual Objective 1 July 2017 to 30 June 2020	Outcomes	
		QTR	YTD
30(1)(f)(vii): an unassisted failure of a <u>hardwood</u> pole that is part of the <u>transmission</u> network	23	9	17 <sup>3</sup>
30(1)(f)(viii): an unassisted failure of a <u>softwood</u> pole that is part of the <u>transmission</u> network	NA	0	0
30(1)(f)(ix): an unassisted failure of a <u>steel</u> pole that is part of the <u>transmission</u> network	1	0	0
30(1)(f)(x): an unassisted failure of a <u>concrete</u> pole that is part of the <u>transmission</u> network	1	0	0
30(1)(f)(xi): an unassisted failure of a <u>composite fibre, aluminium, or any other type of</u> pole that is part of the <u>transmission</u> network	NA	0	0
30(1)(g)(i): an unassisted failure of an overhead conductor that is part of the <u>distribution</u> network	341	91	189 <sup>4</sup>

<sup>3</sup> Quarter 2 report included 4 unassisted failure of a transmission hardwood pole (9 YTD) that had incomplete investigations. Once the investigations were complete one of these was classified as assisted.

<sup>4</sup> Quarter 2 report excluded one unassisted failure of an overhead service wire supplying a streetlight. This has now been included in the YTD figure.

Description of incident type	Annual Objective 1 July 2017 to 30 June 2020	Outcomes	
		QTR	YTD
30(1)(g)(ii): an unassisted failure of an overhead conductor that is part of the <u>transmission</u> network	2	0	0
30(1)(h)(i): an unassisted failure of a stay wire that is part of the <u>distribution</u> network	166	44	105
30(1)(h)(ii): an unassisted failure of a stay wire that is part of the <u>transmission</u> network	2	0	1
30(1)(i)(i): an unassisted failure of an underground cable that is part of the <u>distribution</u> network	3	0	0
30(1)(i)(ii): an unassisted failure of an underground cable that is part of the <u>transmission</u> network	1	0	0

From the perspective of network safety, Western Power strives to maintain and operate its network in a way that results in the least number of incidents as is reasonably possible, recognising that there are inherent safety risks associated with operating an electricity network. Western Power adopts a risk-based approach to planning and delivering work, which aims to eliminate the maximum amount of risk from the network, balancing safety, reliability and efficiency.