



Bushfire consequence modelling for TRANSGRID



Image: <https://www.istockphoto.com/photos/power-line-fire>

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To whom it may concern,

FLARE Wildfire Research group is one of Australia's largest fire research groups. FLARE is based in the School of Ecosystem and Forest Sciences at The University of Melbourne. We have excellent working relationships with a range of national and international research partners including fire and land management agencies, institutions of higher learning, research centres and fire specialists. The group has strong research partnerships with DELWP, NSW Rural Fire Service and ACT Parks and Conservation.

Our team is currently working on a range of projects across Australia, with a diverse range of research partners including both government and commercial agencies. FLARE are currently undertaking several large scale research projects including: state-wide fire risk modelling for the Rural Fire Service NSW; quantifying fire risks to forestry plantations on a national scale for the Forest and Wood Products Australia; as well as fire risk modelling for energy networks.

We have extensive experience modelling bushfires and potential impacts to a range of values. Our research is focused on helping agencies and organisations quantify fire risk decisions and optimise management expenditure to reduce the risk of fire to people, property and other assets. Our risk modelling approach provides a systematic method for assessing trade-offs between different management strategies, with estimates of residual risk and cost-effectiveness across a range of values and asset types. Our work in this field aims to provide robust calculations of risk (at the local and landscape scale) to assist decision making and inform on-ground management for a range of assets including people, property, economic, environmental, cultural and infrastructure.

Asset categories included within modelling undertaken for Transgrid are as follows:

- [REDACTED] – Based upon Australian Bureau of Statistics (Mesh blocks)
- [REDACTED] - These locations [REDACTED]
[REDACTED] This does not include the [REDACTED]
[REDACTED]
- [REDACTED] – Includes replacement costs only, [REDACTED]
[REDACTED]
- [REDACTED] - Per hectare value based on land use, [REDACTED]
[REDACTED]
- [REDACTED] – Per hectare value based upon land use.
- [REDACTED] – Per hectare value based upon land use.
- [REDACTED] – Per hectare value based upon land use.

Asset categories excluded from the modelling undertaken for Transgrid are as follows:

- [REDACTED]
[REDACTED]
- [REDACTED]
[REDACTED]
- [REDACTED] associated
with the aftermath of fires.
- [REDACTED]
[REDACTED]
[REDACTED]
- [REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

