

## Bird and bat strike increase risk

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I wish to submit an objection against Mod 1 SSD 6693 and future construction by TILT Renewables of Rye Park wind farm for the following reason:

There will be a 71% increase in (Rotor Swing Area) RSA per wind tower, added to that an increase in area of land applied for under this modification from original approved Rye Park wind farm area of 256.8 Hectares to Modified project of 542.1 Hectares increasing the footprint by over 47% thus across the 80 towers applied for under Mod 1 SSD 6693 there will be a massive increase of likely impact on flying lifeforms via application for the extension of tip height to 200 meters.

The added height will impact a massively larger sphere of flying animals, and with an added tip height to 200 meters from a presently approved 157-meter tip height, as above this also extends the radial impact zone for any animal, combined with the subsequent blade tip speed. Given that 43 meters does not sound like a large increase in blade length, it is when viewed against a standard house a long way for example. Many houses are in the 10 to 20metere size range.

If the extension to both height and blade lengths for the Rye Park Wind Farm are approved and if these 80 200-meter towers are approved, then this will become one massive killing field for winged creatures by day and night.

The extra inevitable blade length means that the **tip speed increases** exponentially, thus making unavoidable collisions from flying creatures a fact of life.

Denial of bat and bird deaths in massively increased numbers whether via barotrauma or direct impacts from fast moving blades is not applicable.

Below I will note a few prominent species of birds and in some case species that neither TILT Renewables and or their employed Environmental and Social Consultants Umwelt have given proper credence to if at all.

- The proponents in this case TILT Renewables will for instance impact the Wedged Tailed Eagle **for which they will be not prosecuted for killing these birds yet it's illegal for anyone to kill, trap or poison this species in NSW.** Heavy Fines apply. Wedged Tailed Eagles that are not killed outright, neither TILT Renewables nor Umwelt will account for the maimed members of this species that move away severely injured to die a slow painful death.
- Superb Parrots, whilst almost in denial by TILT Renewables and addressed dismally by the company employed to do the Operational Bird and Bat Assessment Final March 2020 Umwelt Environmental and Social Consultants, seemingly observing preferred flight height of this parrot species upto 29 meters, to scrape in just below the bottom of the extended blade tip at 30 meters.
- Swift Parrots-which TILT Renewables claims will be address, **whilst the company employed to do the Operational Bird and Bat Assessment Final March 2020 Umwelt Environmental and Social Consultants fail to make mention of the Swift Parrot *Lathamus discolor*** in their report. Suggesting that TILT Renewables will bungle their way through this as they have with most of this project?
- Diamond Fire tailed Finch-whilst the company employed to do the Operational Bird and Bat Assessment Final March 2020 Umwelt Environmental and Social Consultants, states that this species survival is listed as Vulnerable little other factual response has been applied to this species.

Barotrauma, which is the sudden change in air pressure either causing collapsed lungs of birds and flying mammals and no doubt collapse of air sacks in birds or loss of controlled flight will also take its toll on flying creatures near these fast spinning blades. Blade tips that will be travelling at over 300 KPH.

**If the DPI E approves Mod 1 SSD 6693 these adjustments to blade tip height and ultimately blade length extensions, combined with a massively larger footprint applied for now 542.1 hectares and increase of over 47% there will be a massive increase in both direct strikes and barotrauma injuries to all avian and mammalian flying species.**

Therefore, I respectfully ask the DPIE to please consider the implications on wildlife if approving the increase in tip height by 43 meters and thus associated RSA by 71% and increase of 47% total footprint applied for by TILT Renewables under Mod 1 SSD 6693 for the machines of Rye Park Farm?

Regards

John McGrath