

Our ref: SSD-8445-PA-56

Zina Ainsworth
Manager Environment and Community
Tahmoor Coal Pty Ltd
SIMEC Mining

Via: NSW Planning Portal

9/11/2023

Subject: Tahmoor South Project (SSD-8445) - GHG Emission Reduction Opportunity Report

Dear Zina

I refer to the *Tahmoor South Project GHG Emission Reduction 2023 Opportunities Report* (MeCeeSolutions Pty Ltd, 2023) (the report) submitted to the Department of Planning and Environment (the department) in accordance with condition B19(a) of the Tahmoor South Project development consent (SSD-8445). I also refer to your letter response to the department's request for further information (dated 31 August 2023).

The department notes that Tahmoor Coal has committed to implement all the report recommendations, including:

- undertaking additional gas capture trials for pre-drainage of gas from the Wongawilli Seam;
- completing a gas characterisation study for the southern domain;
- updating gas and ventilation forecast against historical data; and
- undertaking a gas drainage network and surface gas drainage plant performance review;

and to report on the outcomes of the above actions in the next report, to be submitted to the department by 23 April 2026 in accordance with condition B19(a) of the Tahmoor South Project development consent (SSD-8445).

The Department has carefully reviewed the report and your letter response (dated 31 August 2023) and is satisfied that these meet the requirement of condition B19(a) of the Tahmoor South Project development consent (SSD-8445).

Additional Recommendation from NZEM team

The department notes an additional recommendation to complete a comprehensive gas management study outlined in advice from the Science, Economics and Insights Net Zero Emissions Modelling (NZEM) team (dated 2 June 2023).

In accordance with condition A3 of the Tahmoor South Project development consent (SSD-8445), the department requests that Tahmoor Coal undertakes a comprehensive gas management study as outlined in the NZEM team advice (dated 2 June 2023).

The gas management study should consider the various potentially competing abatement opportunities methods to determine the optimal solution(s), such as pre- and post-drainage, flaring, power generation and Ventilation Air Methane (VAM) abatement technologies, including:

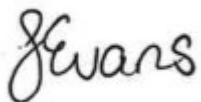
- increasing the pre-drainage efficiency to reduce the gas content to under 5 m³/t;
- improving the total gas capture efficiency beyond the stated 40 - 60 %;
- increasing the capacity of power station to reduce gas flaring; and
- consider installing VAM abatement technology (e.g., CSIRO VAMMIT technology with safe ducting).

The gas management study should also include consideration of how the abandoned mine emissions will be managed following closure.

The department requests that the completed gas management study is included in the next report to be submitted to the department in accordance with condition B19(a) of the Tahmoor South Project development consent (SSD-8445) (due 23 April 2026).

If you wish to discuss the matter further, please contact Polina Golberg on 02 8275 1072 or via email at polina.golberg@dpie.nsw.gov.au.

Yours sincerely



Jessie Evans
Director
Energy and Resource Assessments

As nominee of the Planning Secretary