

Samphire Uranium Project – Media Release

Alligator Energy Limited **ASX: AGE** (**Alligator** or the **Company**) refers to the Community Briefing Presentations released to the market on 12 December 2022 and 31 January 2023 and the subsequent meetings held in Whyalla to outline plans for conducting a field recovery trial at the Samphire Uranium Project in late 2023.

The Company received valuable feedback in these sessions along with a number of questions on how the field trial will be operated. In this regard the Company now plans to circulate the attached Media Release in South Australia to advise outcomes and respond to certain key questions that were raised.

This announcement has been authorised for release by the Alligator Energy CEO.

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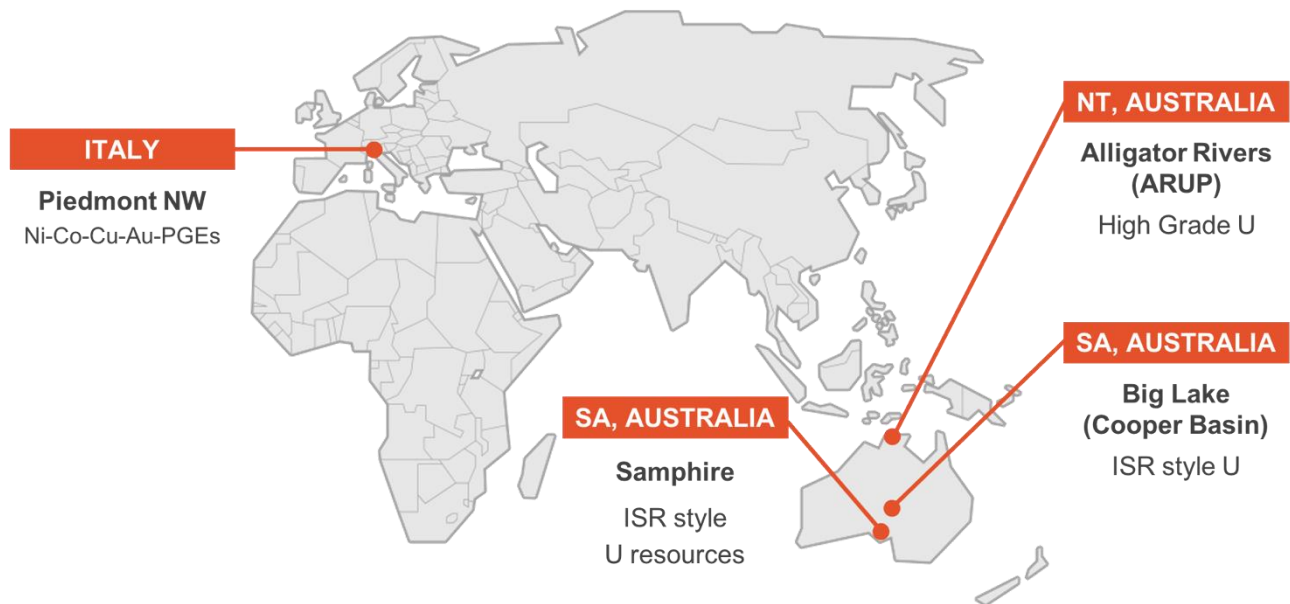
Media & Investor Relations

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About Alligator Energy

Alligator Energy Ltd is an Australian, ASX-listed, exploration company focused on uranium and energy related minerals, principally cobalt-nickel. Alligator's Directors have significant experience in the exploration, development and operations of both uranium and nickel projects (both laterites and sulphides).

Projects





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FOR IMMEDIATE RELEASE

Alligator Energy Ltd

Media Release

Alligator Energy welcomes Community feedback on Samphire Uranium Project

Alligator Energy (ASX:AGE) has welcomed feedback from the Whyalla Community during community consultation sessions held in December 2022 and January 2023. The Company hosted public presentations and drop-in sessions to inform the Community about the status of exploration and evaluation of the Samphire Uranium Project, which is located 20km south of Whyalla, near the Mullaquana Road area.

Alligator Energy is proposing to undertake a small, short-term pilot Field Recovery Trial (FRT) at its Blackbush deposit in late 2023 using the In Situ Recovery (ISR) or 'solution mining' method. ISR is often referred to as invisible mining as it does not involve the digging of a large open pit, but rather, extracts minerals using the circulation of the existing hypersaline groundwater dosed with oxidants to lower the pH of the groundwater to enhance uranium extraction. The solution circulates through a ring of encased wells drilled into the ground to the uranium horizons (varying between 60 and 80m deep), allowing the uranium to dissolve into the circulating groundwater, which is then pumped to the surface through a hole in the centre of the ring for processing. Once mining is completed, infrastructure is removed, and the environment is rehabilitated to its original, or better condition.

AGE's Chief Executive Officer, Greg Hall, said 'We have greatly appreciated the attendance, feedback and questions received from the community of Whyalla and its surrounds, and will continue to engage, consider and respond to these questions during our ongoing planning ahead of the proposed FRT in late 2023.'

'We have received some highly practical feedback and questions around employment, use of Whyalla based businesses, environmental impacts, and questions on future transport routes, including community members seeking to understand the type and volume of traffic movements along Mullaquana Road during the proposed FRT construction and operation'.

'We have also had questions regarding the hypersaline groundwater migration during the solution mining process and the ability to manage its movement during uranium extraction and post closure. In response,



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the Company will continue to demonstrate that the testing and modelling completed by independent external experts confirms that the highly compacted yet permeable sand layers which contain the uranium are not only some kms distance from the Gulf, but also separated vertically by 40-50m of impermeable layers above. The modelling also demonstrates that the groundwater returns to its original pH neutral hypersaline state within 30m to 35m of where the uranium is recovered during and post the solution mining process. This is important in the context of the FRT being around 3.5km from the nearest coastline.'

The FRT is designed to confirm these and other questions through a small pilot process. Based on the outcomes of the FRT, Alligator may enter into a Feasibility Study and other studies for a future potential operation, with much more work to be done prior to this.

'We have been engaging with our immediate and adjacent pastoral landholders since late 2020 / 2021 and have an agreement in place for the area we are directly working on at the Blackbush deposit, which is where the FRT is proposed to be conducted.'

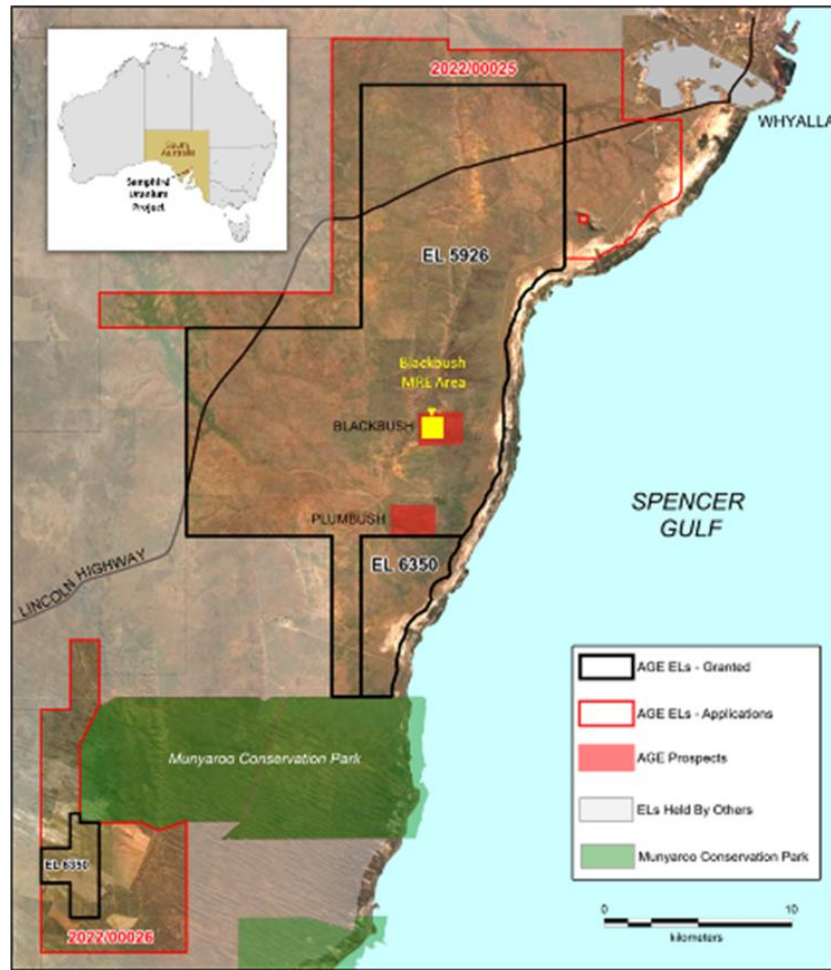
'As a Company, we strive to build collaborative relationships with all stakeholders, including landholders, Indigenous communities, the local public, and others. This will continue this throughout the life of the Samphire Project as we potentially move through the next evaluation phases. Ultimately, we want to bring a new industry to Whyalla and provide local employment and business opportunities, and royalties to the State of South Australia, while being a profitable operation. To date, we have engaged with over 30 local businesses and are growing our locally based team'.

In December 2022, Alligator Energy was awarded a Commendation at the SA Premier's Awards in Energy and Mining. The award recognised the Company's work in improving land biodiversity through innovative land rehabilitation methods during exploration. Greg Hall stated 'Receiving this award was a great outcome for the Alligator Energy team and is testament to the Company's ongoing environmental focus and commitments.'

For further information we encourage any questions, comments or information through our feedback email address:

feedback@alligatorenergy.com.au

Further information round the Company and our projects can be found at www.alligatorenergy.com.au



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