

## Quarterly Activities Report for the Period Ending 30 June 2023

### Operational Highlights:

- **Orientation Electrical Resistivity Tomography (“ERT”) survey successfully completed at the Agadez Uranium Project confirmed and replicated existing drilling results, reducing the need for extensive and systematic grid drilling.**
- **ERT results significantly improve position accuracy and identification of basement faults that control the mineralisation within the Carboniferous and Jurassic stratigraphy.**
- **Agadez Project Mineral Resource Estimate updated, with Takardeit Deposit now holding a shallow Inferred Mineral Resource of 31.1 Mt at a grade of 315 ppm  $U_3O_8$  for 21.5 Mlbs (at 175 ppm cut-off)<sup>1</sup>.**
- **Grade increase of 6.8%, with an increase in contained metal of 101%<sup>1</sup>.**
- **IP Survey completed at Ghanzi West Copper-Silver Project identified multiple high priority drill targets over 3 domal structures at the Kara Antiform.**
- **Subsequent to the Quarter, ENRG granted the Tarouadji Project, prospective for lithium and tin, in a favourable geological setting.**
- **Share Purchase Plan launched in June to raise up to \$1.5m (before costs), completing on 1 August 2023.**

ENRG Elements Limited (**ASX:EEL, OTCQB: EELFF**) (“**ENRG**” or the “**Company**”) is pleased to provide an overview of activities for the quarter ended 30 June 2023 (“**Quarter**”, “**Reporting Period**”), to accompany the Appendix 5B.

### **Commenting on the Quarter, ENRG Managing Director, Caroline Keats, said:**

*“During the June quarter, we continued to advance our uranium and copper assets in Niger and Botswana respectively. In April, ENRG announced a 101% increase in the contained  $U_3O_8$  at the Company’s flagship Agadez Uranium Project in Niger, with a grade increase of 6.8% and Agadez now holding a Mineral Resource Estimate of 21.5 Mlbs  $U_3O_8$ <sup>1</sup>.*

*"At the Ghanzi West Copper-Silver Project, an IP Survey was completed identifying multiple high priority drill targets over 3 domal structures, and based on the results of the IP Survey, ENRG will now develop the next stage of its exploration program.*

*"In June, to fund further exploration across the Company's asset portfolio, ENRG announced a Share Purchase plan to raise up to \$1.5m before costs. The Board of ENRG encourages shareholders to take up their full entitlement. I would like to thank shareholders for their ongoing support to date."*

### **Agadez Uranium Project, Niger**

On 26 April 2023, the Company announced a 101% increase in the Mineral Resource Estimate ("MRE") at the Takardeit Deposit, within the Agadez Uranium Project ("**Agadez Project**"), to 31.1Mt at a grade of 315 ppm  $U_3O_8$  for 21.5 Mlbs  $U_3O_8$ , in the Inferred category<sup>1</sup>.

Cut off	M tonnes	Grade $U_3O_8$ ppm	Mlb $U_3O_8$
175	31.1	315	21.5

Table 1: JORC (2012) Inferred Mineral Resources (Figures may not add due to rounding)

The expansion of the Takardeit Deposit MRE is a result of the 5,500m drilling program initiated in June 2022<sup>2</sup>. This program aimed to confirm and extend the mineralisation within the Jurassic formations (Tchirezrine I and Mousseden) at the Takardeit Deposit. The updated MRE indicates a 6.8% increase in grade and an accompanying increase in tonnage, primarily attributed to the inclusion of the Takardeit East, Takardeit Northeast, and Takardeit Northwest areas within the overall Deposit. The Takardeit Inferred MRE suggests the presence of a higher-grade area of mineralisation controlled by a Mousseden-Tchirezrine paleochannel system whose extension remains to be identified.

<sup>1</sup> ASX Release – 26 April 2023

<sup>2</sup> ASX Release – 1 September 2022

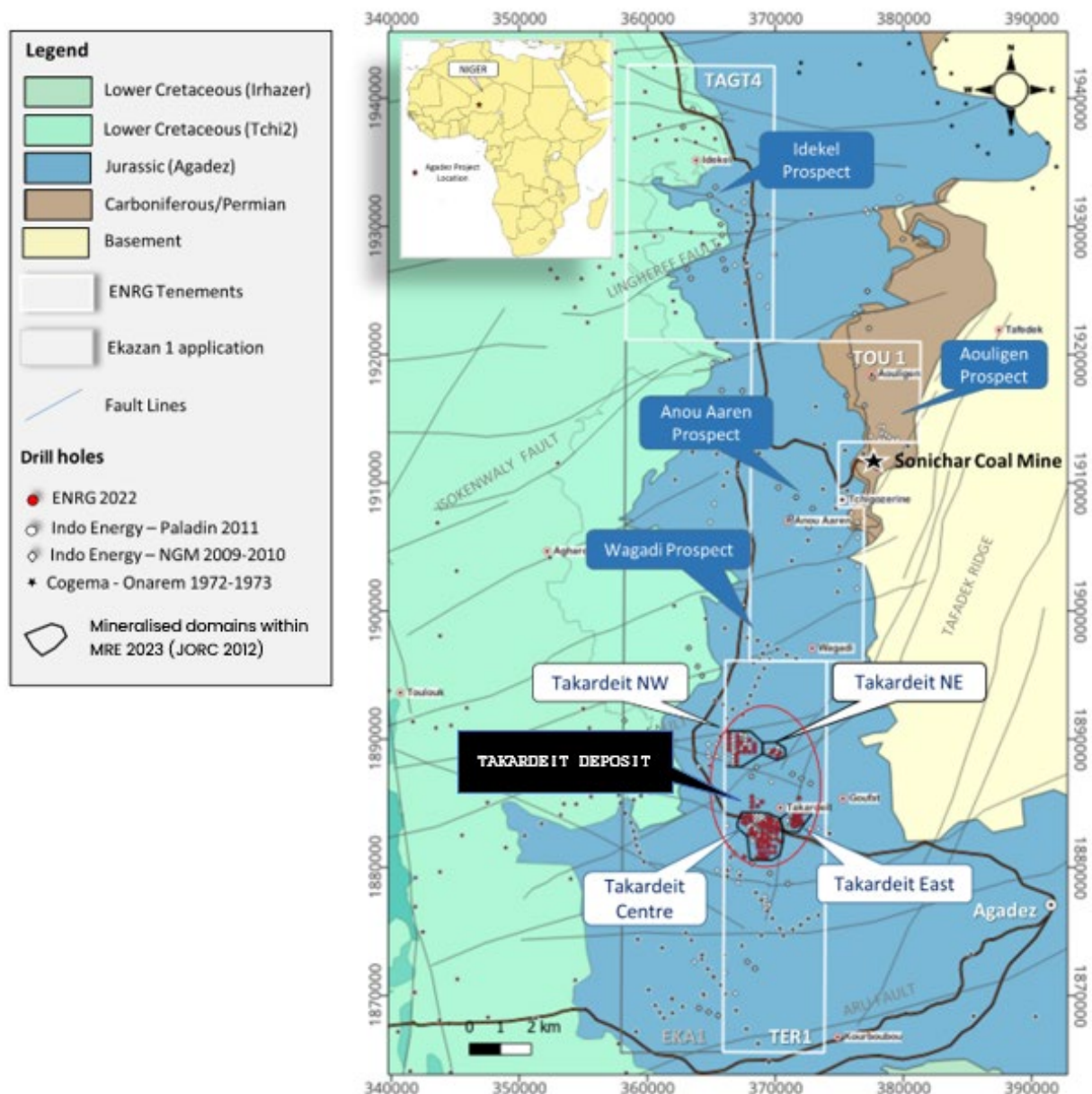


Figure 1: Geological map of the Permits showing the drill hole locations and main prospects

On 11 May 2023, ENRG announced positive results from an orientation electrical resistivity tomography (“**ERT**”) survey undertaken across the Takardeit area, demonstrating a correlation with existing drilling data and historical geophysical surveys<sup>3</sup>. By employing ERT, the Company gains the ability to identify additional targets and potentially shorten the timeframe required to expand the resource base of ENRG. This is achieved by narrowing down the search area and enabling more accurate targeting for the drilling program. The ERT survey results, particularly in terms of the orientation, clearly demonstrate the precise location, extent, geometry, and

<sup>3</sup> ASX Release – 11 May 2023 – “Ground Resistivity Geophysical Survey at Agadez Project”

geostructural context of the principal Mousseden paleochannel. These findings affirm the value of ground resistivity methods in assessing near-surface paleochannels and their structural influence.

As the Takardeit Deposit is currently in its preliminary stage, no specific mining or metallurgical studies have been conducted. However, considering the local geology and the shallow nature of the Deposit, it is anticipated that open pit mining methods would be utilised. Additionally, it is expected that the metallurgical characteristics of the Takardeit Deposit would align with other projects in the region that share similar geological characteristics.

### **Ghanzi West Copper-Silver Project, Botswana**

Following the completion of the Induced Polarisation (“IP”) Survey at its Ghanzi West Copper-Silver Project (“**Ghanzi West Project**”), the Company announced on 4 April 2023 that it had identified multiple high priority drill targets. The IP Survey was designed to test favourable trap site structures over the Karakubis, Tsootsha and Sharpes Post domes, identified from the Airborne Electromagnetic (“AEM”) and Gravity Survey completed in December 2022<sup>4</sup>. The IP Survey data has highlighted clusters of anomalous, previously undrilled, chargeability anomalies in favourable structural and stratigraphic settings.

Based on the results of the IP Survey, the Company will now develop the next stage of its exploration program at the Ghanzi West Project.

### **Virgo Project, Botswana (EEL 25% interest)**

The Company retains a 25% interest in Alvis-Crest (Propriety) Limited, the holder of two prospecting licences in the Kalahari Copper Belt (PL 135/2017 and PL 162/2017). Arc Minerals Limited (75% interest in Alvis-Crest (Propriety) Limited, has advised that following soil sampling programs which identified a copper anomaly on PL 162/2017, a drilling program comprising five RC and 2 diamond holes was undertaken. As at the date of this announcement, assays from this drilling program remain pending.

### **Tarouadji Project**

Subsequent to the Quarter, ENRG announced that it was granted the Tarouadji 2 exploration permit in the largely underexplored Tarouadji area, located in the Agadez region of Niger (“**Tarouadji Project**”), which is prospective for lithium and tin minerals, within a multiphase granitic setting in the Air Massif.

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<sup>4</sup> ASX Release – 7 December 2022 – “High priority drill targets identified at Ghanzi West”

The Tarouadji Project represents a strategic increase in the Company's land holding position in Niger, situated 70km east of the Company's Agadez Project and covers an area of 499.7km<sup>2</sup> (see Figure 2).

The Tarouadji Project was initially explored in early 1969 by N Mikhailoff<sup>5</sup> through surface sampling and geological mapping. The region contains the world's largest ring dykes, with the tenement mostly covering the "Tarouadji-Type" ring structure and hosting identified pegmatitic intrusions<sup>6</sup>. The Company is currently undertaking a verification of the historic sample results which identified lithium and tin anomalies and will report them in accordance with JORC Code 2012 in due course.

The Company aims to commence an exploration program at the Tarouadji Project using a staged approach, signifying its dedication to unlocking new resources and advancing its position as an explorer of uranium, lithium and copper for a carbon-neutral and electric future.

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<sup>5</sup> Rapport sur les Travaux de Prospection Geochimique des Massifs Cristallins de L'Air, Par N Mikhailoff, 1971

<sup>6</sup> Geological Atlas of Africa, Thomas Schluter, 2006

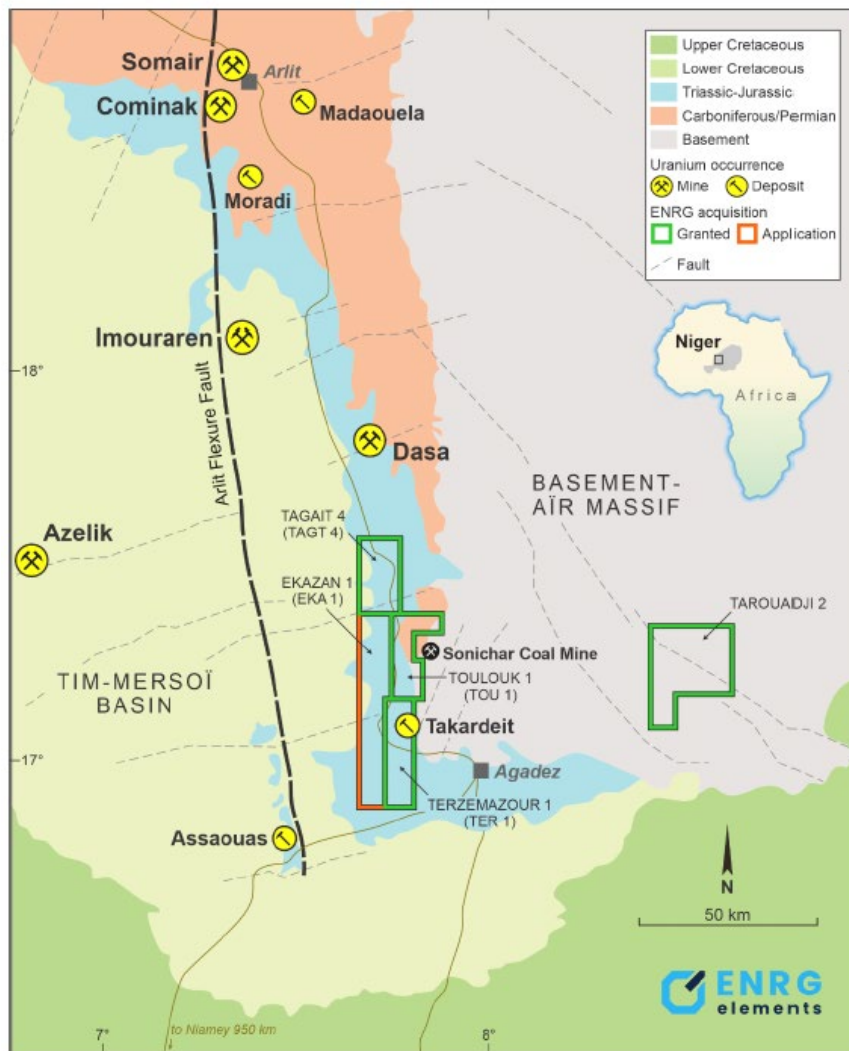


Figure 2: Map of the Company's Agadez Project and Taroudaji Project

## Corporate

On 3 May 2023, 80,000,000 Performance Shares were converted into 80,000,000 fully paid ordinary shares ("**Shares**") in the Company upon satisfaction of the vesting conditions as set out in the Notice of Meeting dated 2 February 2023.

On 9 June 2023, the Company announced that a non-underwritten Share Purchase Plan ("**SPP**") to raise up to \$1.5 million before costs through the issue of 120,000,000 Shares at an issue price of \$0.0125 per Share, with a 1-for-2 free attaching option exercisable at \$0.019 each, expiring 18 months from the date of issue. The SPP will close on 1 August 2023. In the event that less than \$1.5 million is applied for under the SPP by Eligible Shareholders, the Directors reserve the right to place that number of Shares at the SPP issue price to raise up to \$1.5 million when combined with the



amount raised under the SPP ("**SPP Shortfall Offer**"), including Attaching Options on the same terms as the SPP, under its available placement capacity under ASX Listing Rules 7.1 and 7.1A.

In accordance with ASX Listing Rule 5.3.5, payments to related parties or their associates during the Reporting Period comprised Managing Director salary, Non-executive Director fees, consulting fees and superannuation and totalled \$79,000.

The Company's cash balance as at 30 June 2023 was \$814,000. In accordance with ASX Listing Rule 5.3.1, expenditure incurred during the Quarter on the above-mentioned exploration activities totalled \$160,000.

Authorised by the Board of ENRG Elements Limited.

**For further enquiries, please contact:**

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**About ENRG Elements Limited**

**ENRG Elements Limited (ASX:EEL OTCQB: EELFF)** is a company focused on the exploration and development of its uranium and copper projects, both commodities which are essential for a clean energy future.

The Company holds 100% of the underexplored Agadez Uranium Project located in the Tim Mersoï Basin of Niger, with a JORC Resource of 21.5 Mlbs of contained U3O8 at 315 ppm (175 ppm cut-off grade) from surface to ~37m depth (ASX Release – 26 April 2023). Agadez hosts similar geology to Orano SA's Cominak/Somair and Imouraren uranium mines and the deposits held by Global Atomic Corporation (TSE:GLO) and GoviEx Uranium (CVE:GXU). The Company was also recently granted the Tarouadji Project in Niger, a lithium exploration permit covering approximately 500km<sup>2</sup>, located 70km<sup>2</sup> from the Company's flagship Agadez Uranium Project.

Niger has one of the world's largest uranium reserves and in 2021 it was the seventh-highest uranium producer globally with the Tim Mersoï Basin in Niger hosting the highest-grade and tonnage uranium ores in Africa .

ENRG Elements also holds the 100% owned Ghanzi West Copper-Silver Project covering a total area of 2,630km<sup>2</sup> in the emerging world class Kalahari Copper Belt of Botswana, one of the most prospective copper

belts in the world, which hosts Sandfire Resources' Motheo Copper Mine and Khoemacau Copper Mining's Zone 5 underground mine. ENRG Elements believes that the Kalahari Copper Belt has the potential for material discovery, with further exploration underway to advance the project.

Botswana is a stable, pro-mining jurisdiction, supportive of mineral exploration and development.

The Directors and management of ENRG Elements have strong complementary experience with over 90 years of Australian and international technical, legal and executive experience in exploration, resource development, mining, legal and resource fields.

**Competent Persons Statement**

The information relating to previous Exploration Results and Mineral Resources outlined in this announcement was compiled by Mr. David Princep, an independent consultant employed by Gill Lane Consulting. Mr Princep is a Fellow of the Australasian Institute of Mining and Metallurgy and a Chartered Professional Geologist. Mr Princep has more than five years relevant experience in estimation of mineral resources and the mineral commodity uranium. Mr Princep has sufficient experience relevant to the assessment of this style of mineralisation to qualify as a Competent Person as defined in the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves – The JORC Code (2012)". The Company confirms that the form and context in which the results are presented and all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed have not been materially modified from the original announcements.



**Tenement Information at 30 June 2023**  
**as Required by ASX Listing Rule 5.3.3**

Prospecting Licence	Location	% Interest	Change in Quarter
Terzemazour 1	Niger	100	-
Tagait 4	Niger	100	-
Toulouk 1	Niger	100	-
PL203/2016	Botswana	100	-
PL204/2016	Botswana	100	-
PL205/2016	Botswana	100	-
PL127/2017	Botswana	100	-
PL128/2017	Botswana	100	-
PL129/2017	Botswana	100	-
PL135/2017	Botswana	25	-
PL162/2017	Botswana	25	-