



16 December 2019

ASX Announcement

Marenica Acquires 48 Mlbs of High-Grade Uranium Resources

- The Company has completed the acquisition of Australian uranium resources from Optimal Mining Limited
- The Company's uranium resources increase by 100%
- The acquisition adds 48 million pounds of high-grade resources, averaging 859 ppm U₃O₈.
- The uranium resources are expected to be amenable to Marenica's *U-pgrade*[™] beneficiation process
- The acquisition follows the Company's strategy of building a diverse asset base, with a pipeline of projects at various stages in the development cycle

Marenica Energy Limited ("**Marenica**", the "**Company**") (**ASX:MEY**) is pleased to announce that it has completed the acquisition of Australian uranium tenements from Optimal Mining Limited ("**Optimal**") ("**Acquisition Assets**"), increasing Marenica's uranium resources by 100%, being 48 million pounds of high-grade resources at an average grade of 859 ppm U₃O₈.

The high-grade resources are contained within the Angela, Thatcher Soak and Oobagooma projects, and joint venture holdings in the Biglryi, Malawiri, Walbiri and Areva joint ventures in Australia.

The Acquisition Assets adds to Marenica's existing 61Mlb uranium resource at the Marenica Uranium Project (75% owned) in Namibia and compliments its large tenement holding of 4,527 square kilometres strategically acquired in Namibia over the last 18 months.

Marenica Managing Director, Murray Hill, commented "The counter-cyclical purchase of these high-grade uranium resources in Australia, averaging 859 ppm U₃O₈, increases our uranium resources by 48 Mlbs U₃O₈ and thereby doubles our mineral resources. In addition, Marenica has had a successful 2019, with excellent drilling results at Koppies with grades of up to 4,504 ppm U₃O₈, identification of two palaeochannels at Koppies with one measuring 3.6 km by 1.2 km and a successful program of acquiring strategically located tenements in Namibia. Marenica expects to ultimately add significant value to its uranium portfolios through applying its 100% owned *U-pgrade*[™] beneficiation process to the projects. Marenica now has one of the largest uranium resource inventories of any company listed on the ASX, has projects diversified by geographic location and owns *U-pgrade*[™], its revolutionary uranium beneficiation process. The Company is positioned as a unique opportunity within the uranium sector. On behalf of the Board, I would like to thank shareholders for supporting the acquisition and we look forward to continuing this exciting phase of development in 2020."

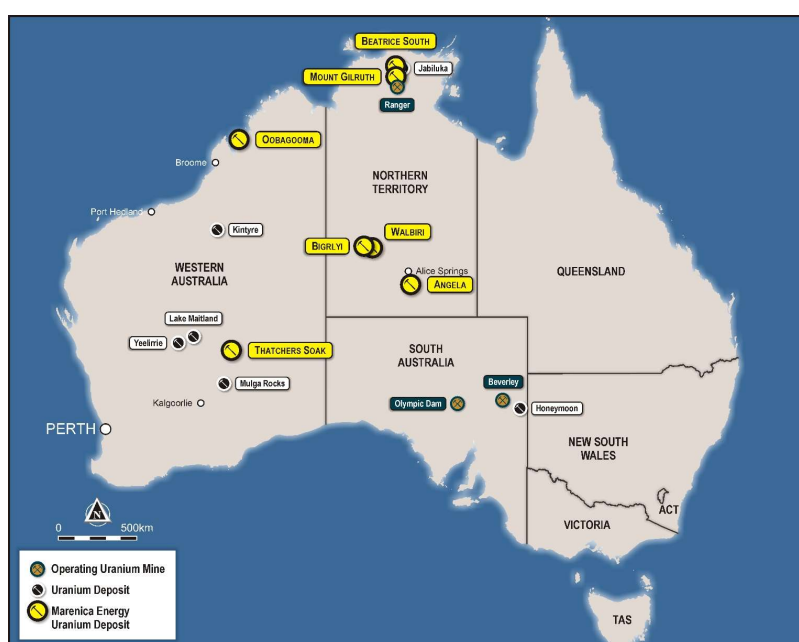
Table 1: Uranium Minerals Resources in Australia – Acquired from Optimal

Deposit	Category	Cut-off (ppm U ₃ O ₈)	Total Resource			Marenica's Share			
			Tonnes (M)	U ₃ O ₈ (ppm)	U ₃ O ₈ (Mlb)	Holding	Tonnes (M)	U ₃ O ₈ (ppm)	U ₃ O ₈ (Mlb)
100% Holding									
Angela *	Inferred	300	10.7	1,310	30.8	100%	10.7	1,310	30.8
Thatcher Soak	Inferred	150		425	10.9	100%	11.6	425	10.9
100% Held Resource Total			22.3	850	41.7	100%	22.3	850	41.7
Bigirly Joint Venture									
Bigirly Deposit*	Indicated	500	4.7	1,366	14.0				
	Inferred	500	2.8	1,144	7.1				
Bigirly Deposit Total		500	7.5	1,283	21.1	20.82%	1.55	1,283	4.39
Sundberg	Inferred	200	1.01	259	0.57	20.82%	0.21	259	0.12
Hill One JV	Inferred	200	0.26	281	0.16	20.82%	0.05	281	0.03
Hill One EME	Inferred	200	0.24	371	0.19				
Karins	Inferred	200	1.24	556	1.52	20.82%	0.26	556	0.32
Bigirly Joint Venture Total			10.2	1,049	23.5	20.82%	2.07	1,065	4.86
Walbiri Joint Venture									
Joint Venture	Inferred	200	5.1	636	7.1	22.88%	1.16	636	1.63
100% EME	Inferred	200	5.9	646	8.4				
Walbiri Total	Total	200	11.0	641	15.5				
Malawiri Joint Venture									
Malawiri JV	Inferred	100	0.42	1,288	1.20	23.97%	0.10	1,288	0.29
Joint Venture Resource Total			21.6	847	40.2		3.34	923	6.77
Australian Total			43.9	848	81.9		25.6	859	48.4

* JORC 2004 Resources, all others are JORC 2012.

The Company confirms that it is not aware of any new information or data that materially affects the information in the 2019 Annual Report and further confirms that all material assumptions and technical parameters underpinning the estimates in the 2019 Annual Report continue to apply and have not materially changed. The Mineral Resource Estimate for the resources noted as JORC 2004 in the table above were prepared and first disclosed under the 2004 Edition of the Australian Code for the Reporting of Exploration Results, Minerals Resources and Ore Reserves (JORC Code 2004). It has not been updated since to comply with the 2012 Edition of the Australian Code for the Reporting of Exploration Results, Minerals Resources and Ore Reserves (JORC Code 2012) on the basis that the information has not materially changed since it was last reported. A Competent Person has not undertaken sufficient work to classify the estimate of the Mineral Resource in accordance with the JORC Code 2012; it is possible that following evaluation and/or further exploration work the currently reported estimate may materially change and hence will need to be reported afresh under and in accordance with the JORC Code 2012.

Figure 1: Location of Resources in Australia – Acquired from Optimal



The Assets Acquired

Marenica has acquired 16 mining tenements and joint venture interests in 28 mining tenements in Western Australia and the Northern Territory (New Tenements), all of which are prospective for uranium and include uranium mineral resources. A summary of the assets is included below.

Angela Deposit (100%)

Angela is a sandstone-hosted roll-front type uranium deposit with an Inferred Mineral Resource of 30.8 Mlb U_3O_8 at 1,310 ppm U_3O_8 , located in the Amadeus Basin of the Northern Territory, approximately 25 km from Alice Springs.

The mineralisation includes a higher-grade core of 20.2 Mlb U_3O_8 at a grade of 2,500 ppm U_3O_8 at a cut-off grade of 1,500 ppm.

Thatcher Soak Deposit (100%)

The Thatcher Soak deposit is located within the main Yilgarn calcrete province in Western Australia and includes an Inferred Mineral Resource of 10.9 Mlbs U_3O_8 at 425 ppm U_3O_8 . Thatcher Soak is a calcrete hosted uranium deposit and other similar style deposits in this province include Yeelirrie, Lake Way, Centipede and Lake Maitland.

Oobagooma Deposit (100%)

The Oobagooma deposit is located in the West Kimberley region of Western Australia, 75 km north-east of the regional centre of Derby. The Oobagooma area was explored by AFMEX between 1983 and 1986, with extensive zones of uranium mineralisation discovered and an historic resource identified. Marenica is unable to report the resource size or grade.

Joint Venture Assets

Bigirlyi Joint Venture (Energy Metals Limited 72.39%, Marenica Energy Limited 20.82%, Southern Cross Exploration NL 6.79%)

The Bigirlyi Joint Venture covers exploration licences located in the Ngalia Basin approximately 320 km north-west of Alice Springs in the Northern Territory. The Bigirlyi deposit is a sandstone-hosted roll-front type uranium deposit with a total Mineral Resource of 21.1 Mlb U_3O_8 at 1,283 ppm U_3O_8 consisting of:

- 14.0 Mlb U_3O_8 at 1,366 ppm U_3O_8 in the Indicated Resource Category
- 7.1 Mlb U_3O_8 at 1,144 ppm U_3O_8 in the Inferred Resource Category

The project also contains a vanadium resource of 19.7 Mlb V_2O_5 at 1,197 ppm V_2O_5 (19.7 Mlb V_2O_5 at 1,197 ppm V_2O_5 in the Indicated Resource Category and 6.3 Mlb V_2O_5 at 1,020 ppm V_2O_5 in the Inferred Resource Category).

The mineral resources of the Sundberg, Hill One and Karins deposits are also included in the Bigirlyi Joint Venture.

Walbiri Joint Venture (Energy Metals Limited 77.12%, Marenica Energy Limited 22.88%)

Walbiri is a sandstone-hosted roll-front type uranium deposit with an Inferred Mineral Resource of 15.5 Mlb U_3O_8 at 641 ppm U_3O_8 , located in the Ngalia Basin of the Northern Territory.

Malawiri Joint Venture (Energy Metals Limited 76.03%, Marenica Energy Limited 23.97%)

Malawiri is a sandstone-hosted roll-front type uranium deposit with an Inferred Mineral Resource of 1.2 Mlb U_3O_8 at 1,288 ppm U_3O_8 , located in the Ngalia Basin of the Northern Territory.

Transaction Details

Marenica acquired the Acquisition Assets from Optimal by paying \$250,000 in cash and issuing 27,500,000 convertible preference shares ("CPS") to Optimal on 13 December 2019. Optimal is required to in-specie distribute the CPS to its shareholders within 14 days.

Authorised for release by: Murray Hill, Managing Director

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