

## Disclaimer

This presentation has been prepared by Toro Energy Limited ("Toro"). The information contained in this presentation is a professional opinion only and is given in good faith. Certain information in this document has been derived from third parties and though Toro has no reason to believe that it is not accurate, reliable or complete, it has not been independently audited or verified by Toro.

TORO ENERGY LIMITED

Any forward-looking statements included in this document involve subjective judgement and analysis and are subject to uncertainties, risks and contingencies, many of which are outside the control of, and maybe unknown to, Toro. In particular, they speak only as of the date of this document, they assume the success of Toro's strategies, and they are subject to significant regulatory, business, competitive and economic uncertainties and risks. Actual future events may vary materially from the forward looking statements and the assumptions on which the forward looking statements are based. Recipients of this document ("Recipients") are cautioned to not place undue reliance on such forward-looking statements.

Toro makes no representation or warranty as to the accuracy, reliability or completeness of information in this document and does not take responsibility for updating any information or correcting any error or omission which may become apparent after this document has been issued.

To the extent permitted by law, Toro and its officers, employees, related bodies corporate and agents ("Agents") disclaim all liability, direct, indirect or consequential (and whether or not arising out of the negligence, default or lack of care of Toro and/or any of its Agents) for any loss or damage suffered by a Recipient or other persons arising out of, or in connection with, any use or reliance on this presentation or information. All amounts in A\$ unless stated otherwise.



### **Corporate Overview**



## **Corporate Overview**

TORO ENERGY LIMITED



### 100% Wiluna Uranium Project (WA)

- 53.6mlbs U<sub>3</sub>O<sub>8</sub> calcrete resource\*
- WA State approval received
- Federal Government decision Q1 2013

### 100% Theseus Uranium Project (WA)

- Greenfield discovery in new area
- Initial resource 6.9mlbs U<sub>3</sub>O<sub>8</sub> established\*
- Potential ISR operation

### **Capital Structure**

- 1042m shares on issue (ASX code: TOE)
- 57m options on issue (unlisted)
- A\$0.115 Share Price (18 Jan)
- A\$120m Market Capitalisation
- A\$4.7m cash (31 Dec)
- A\$12.0m Convertible Loan (Macquarie Bank)<sup>#</sup>
- Total Toro Energy resources 60.5 mlbs U<sub>3</sub>O<sub>8</sub>\*
- A\$115m Enterprise Value (EV/lb A\$1.90/lb)



"To become a significant sustainable uranium mining company focusing on developing a top tier exploration and production profile in the global uranium mining sector."

- Wiluna Uranium Project & Region
  - WA Ministerial environmental approval received
  - One of the few projects globally capable of production from 2015
  - 54mlb (24,200 tonnes) U<sub>3</sub>O<sub>8</sub> total regional JORC resource\*

Front-running project with Federal Govt decision anticipated Q1

5

- Theseus Uranium Project
  - Exciting discovery in greenfield exploration of new uranium province
  - High grade tenor (up to 1% pU<sub>3</sub>O<sub>8</sub>) with potential acid ISR extraction<sup>#</sup>
  - Exploration target range (ETR) 28 40mlbs (12,600-18,200t)  $U_3O_8^*$

### Initial resource 6.9 mlbs $U_3O_8$ (6.3mt @ 493ppm $U_3O_8$ )\*

## Peer Share Price Comparison

**Peer Share Price Comparison - Detail** 100.0% 80.0% 60.0% 40.0% TOE ACB AGS BMN 20.0% BKY Share Price Movement % DYL - EMA 0.0% --- EME 23-23-Sep-12 23-Jun-12 23-Aug-12 23-Oct-12 23-Nov-12 23-Dec-12 ---EMX ---- URE LAM -20.0% MGA USA PEN ..... UNX -40.0% -60.0% MA. J ..... -80.0% 11 1.1.1.1 -100.0%

6

**TORO ENERGY LIMITED** 

# Toro Energy has had a significant year of progress which has seen:

ENERGY LIMITED

- Full Pilot process plant completed for Wiluna project
- Share purchase plan for existing shareholders raises \$5m
- Asset sales of non-core tenements
- Phase 1 of Definitive Feasibility Study Process Engineering completed
- Theseus drilling program indicates high grades and ISR potential
- WA Govt approval of the Wiluna Uranium Project
- Initial Theseus Inferred Resource 6.9mlbs U<sub>3</sub>O<sub>8</sub> bringing total Toro Energy resources to 60.5mlbs U<sub>3</sub>O<sub>8</sub> \*
- 44% share price increase in difficult market
- Access to \$13m cash, with additional \$4m subject to Wiluna approval



## Nuclear Power & Uranium Market



## **Electricity Demand & Nuclear Power**

## Electricity generation in developing Asia is expected to triple in the next 20 years

World total net electricity generation from central producers, by region and country, 2007 and 2030, in Terawatthours



CRU THE INCEPENDENT AUTHORITY INFINO I NETALE I FERTUZER



Exhibit 1

Existing and projected nuclear power plants and capacity, 2012 vs 2020

	201	2020e Net % Share			
Region	Operating	Capacity (GWe)	Net New Builds	Capacity (GWe)	New Capacity
Asia & Mid East	71	47	94	147	78%
E Europe & Russia	69	50	19	69	15%
Western Europe	119	114	-9	109	0%
North America	124	114	4	120	4%
SAmerica & Africa	7	5	4	33	4%
Total	390	330	112	455	

Source: UxC, Morgan Stanley Research. e=Morgan Stanley Research estimates.

### Key nations indicating continuing support for nuclear:

China South Korea USA, UK

India Russia UAE

Current Nuclear Picture 435 Operable 65 under construction 167 firmly planned >300 proposed

9

International Atomic Energy Agency reported in August 2012 that nuclear power capacity will grow 30% - 100% by 2030.

## Supply/Demand Imbalance

**TORO ENERGY LIMITED** 

#### 60 Surplus 40 Market Imbalance (Mlb U<sub>3</sub>O<sub>8</sub>) 20 0 014E 2022E 2024E -20 2010/ 0161 -40 -60

Shortfall Demand vs. Base Case Production Including BIB\* (Ihs) Demand vs. Base Case Production Ex-BIB\* (Ihs) Imbalance as a Percentage of Demand (rhs) Imbalance as a Percentage of Demand Ex-BIB\* (rhs)

30%

20%

10%

0%

-10%

-20%

-30%

40%

-50%

-60%

Imblance

as

a Percepn

tage

0

Demai

na

Fig 27: Uranium Supply/Demand Balance  $(U_3O_8)$ 





Source: BMO Capital Markets, \*BIB = Buffer Inventory Build

-80

-100

-120





### Exhibit 21 Global uranium secondary supply, 2004-20e



Source: UxC, Morgan Stanley Research. e=Morgan Stanley Research estimates.

Source: BMO Capital Markets, \*BIB = Buffer Inventory Build



### Australia

- Emerging Australia-India negotiations on uranium sales
- Olympic Dam Expansion deferred for at least 4 years
- BHPB sells Yeelirrie to Cameco for US\$430m (+ \$21.5m stamp duty) 144mlb @ ~\$3/lb
- Cameco announces Kintyre project requires \$US67/lb to be economic (DFS deferred)
- Wiluna Project receives WA Government approval
- ERA targeting underground mining by 2015

### Global

- Paladin \$200m forward payment on 13.73mlb uranium contract delivering 2019-2024
- UAE \$3b fuel supply deal with Areva/Uranium One/Rio/Converdyn/Urenco/Tenex
- Nuclear Power Corp of India & Uranium Corp of India form JV to acquire foreign mines
- Japanese election win for Abe Govt re-start of nuclear capacity and review of new build
- ARMZ (Russian Govt uranium arm) buying out Uranium One (already owns 51%)
- Hitachi in new UK nuclear build CGNPC also in discussions



ENERGY LIMITED

## Nuclear Price Revival: Japan Re-starts

#### Exhibit 5

Japan: Calculated active capacity through FY29 Assuming gradual restarts, except for reactors over 40 years old, based on current government targets



Note: Our estimated capacity (4): Morgan Stanley Research estimates Source: Company data, Morgan Stanley Research

### **BMO Capital Markets 26 October 2012**

**TORO ENERGY LIMITED** 



### Fig 2: Estimated New Production Incentive Price (US\$/lb)

Japanese election by Abe Govt - nuclear capacity to be restored through 2013-2015



	2014/2015 Term	Long Term
Investment Bank 1	US\$70/lb	US\$70/lb
Investment Bank 2	US\$85/lb	US\$65/lb
Investment Bank 3	US\$74/lb	US\$70/lb
Investment Bank 4	US\$66/lb	US\$76/lb
Incentive Price	US\$85/lb	US\$80/lb
Average:	US\$76/lb	US\$72/lb

ENERGYLIMITED

- With growing demand and insufficient supply the price of uranium must increase
- For new mines to come into production, long-term prices in excess of \$70/lb are required
- Prices are likely to start to rise during 2013



## Project Overview – Updated Economics

TORO ENERGY LIMITED

Port Hedland Port Hedland WILUNA Meekatharra* Geraldton FERTH Esperance ALBION DOV	WILUNA PROJECT CENTIPEDE LAKE WAY WESTERN AUSTRALIA	Parameter	November 2012 Economics*	
		Processing Plant	1.3mtpa	
		Head grade	716ppm *	
		Recovery	Ramping to 86%	
		C1 Cash Cost	AUD \$41/lb USD \$37/lb #	
		Capital Cost	AUD \$269m	
		Product (per annum)	780t U <sub>3</sub> O <sub>8</sub> (1.7mlb)	
		Mining Duration	10 – 14 years	
	Wiluna Project Area Licence/Lease Miscellaneous Licence to Kalgoorlie			

- 960km NE of Perth in Western Australia, semi arid environment with low rainfall
- Shallow open pit mining (<10m), strip 3.8:1, mining to a 250ppm or > U<sub>3</sub>O<sub>8</sub> cut-off
- Processing 1.3 mtpa to a 500ppm  $U_3O_8$  cut-off results in 716ppm head grade
- Alkaline tank leach with direct precipitation
- In-pit tailings storage, progressive rehabilitation, similar to sand mining operation



## Wiluna Project Costs

CAPEX Construction (AUD)



### Wiluna 'C1' Operating Costs per lb (USD)\*





## Wiluna Local Infrastructure



### **Uranium Resources**



## **Technical De-Risking**

### Trial mining confirmed selective mining process



- Vermeer continuous miner cutting 25cm bench
- GPS/gamma logger for pit floor grade mapping
- Groundwater control systems



ENERGY LIMITED

- Ability to map and select higher grade confirmed
- ✓ Continuous miner confirmed efficient method
- $\checkmark$  In pit tailings deposition and full rehabilitation
- ✓ Groundwater control through water barriers

### Pilot plant confirms Toro's proposed process



- Fully integrated continuous hydrometallurgical circuit
- Utilised 15 tonne sample from trial mining
- 40 tonne of site groundwater used in process
- Calcrete and clay dominant processes tested
- Economic processing and recovery proven (~86%)
- ✓ Saline water used for processing
  - Sample uranium to be sent to uranium converters
- ✓ Savings from coarser grind & lower leach temperature

## WA Ministerial Approval

"The Liberal-National Government is committed to ensuring that uranium mining in WA will be subject to strict security provisions and world's best practice safety and environmental standards."

> Minister Marmion, Media Statement 10 October 2012

TORO ENERGY LIMITED

WA Opposition spokesman Bill Johnston said: "...if the ALP come to government and there's a project that's been approved - and when I say been approved I mean by state approvals - it can proceed."

ABC Radio, 11 October 2012



Government of Western Australia Suverimient of the premier and Cabini Department of the premier and Cabini Minister for Env Environmental approval granted for Toro ironment Minister reaches agreement with decision maxing i 5 Energy Limited's proposed uranium mine given strict cond Environment Minister Bill Marmion today announced the granting of final environmental approval, subject to a number of strict conditions, for Toro Energy Limited's proposed uranum mine near wiluna. on said his decision followed three weeks' consultation with other decision-making is including the Minister for Mines and Petroleum and the Minister for Indigenous In said his decision followed three weeks' consultation with other decision-making , including the Minister for Mines and Petroleum and the Minister for indigenous ment I took into account comments made by ager mine near Wiluna. ement | took into account comments made by i ment and Conservation, resulting in even tigh men projection of stygotauna and groundwater-dependent a samphires, and better address surface water fours. Toro will also be required to research the water requirements of groundwater-dependent vedetation and more closely monitor stygorauna in the three calcrele ecceystems to be also be required to research the water requirements of groundwater-dependen in and more closely monitor stygotauna in the three calcrete ecosystems to be marked by the proposal. Y. I have loughened up the environmental conditions, so if this project does go environment will be adequately monitored and protected. Departme National Government is committed to ensuring that uranium mining in WA will be include safety and environmental incl security provisions and wond's best practice safety and environmental tty. I have toughened up the environmental conditions, so if e environment will be adequately monitored and protected. Viberal-National Government is committed to ensuring that uranium mining in WA in View to shirt security provisions and wond's best practice safety and environmental nards. ahead, 1 •The Libera Tately 30km south and 15km. Nedia contact: simone knox - 6552 6900 or 0419 323 434 Viait <u>annu cranue via pri au</u> for any audoneual coverage. Subscribe to have media releases emailed automatically from <u>when mediadelisments wa provau</u>

## **Community & Indigenous**

**TORO ENERGY LIMITED** 

- Industry collaboration on regional consultation program since 2008
- Information days in Wiluna, Kalgoorlie, Menzies and Leonora for ERMP
- Wiluna Shire (Local Government) adopted policy of support for uranium mining
- Wiluna population ~ 650 more than half indigenous
- Contracts already provided to local and regional businesses
- Indigenous employees engaged during technical site works
- Regular attendance by Toro at claimant meetings in Wiluna to provide Project updates
- TO's support in media and public for Toro's engagement process
- Mining agreement negotiations underway



28<sup>th</sup> May 2012

### MEDIA STATEMENT

The Wiluna 'Martu' People are the traditional owners of the land on which Toro Energy Ltd's (Toro) proposed Wiluna Uranium Mine (Wiluna Uranium Mine) is situated.

They issue this media statement to outline their position on Toro's proposed Wiluna Uranium Mine.

#### Background

Toro's Wiluna Uranium Mine is situated on the traditional lands of the Wiluna based 'Martu' People. There are two complementary native title claims that seek to have those traditional lands recognised under the Native Title Act; the Wiluna Native Title Claim and the Tarlpa Native Title Claim (Native Title Claims). These Native Title Claims are at an advanced stage towards a consent determination of native title.

#### History of uranium exploration in the Wiluna region

The Martu People have been dealing with uranium exploration in the Wiluna region since the 1970's; both on their traditional hunting grounds and in areas close to where traditional owners and other Martu families resided at the old Wiluna Ngangganawili mission. This early uranium exploration was conducted without any consultation with the traditional owners and with little government regulatory supervision.

The Wiluna Martu People's previous experience with uranium exploration in the Wiluna region has left them with serious and genuine concerns about the health effects of radiation. It also raised questions for them about the government's capacity to properly regulate uranium exploration and mining on their traditional lands.

Since the recommencement of uranium exploration in the Wiluna region in 2005, the Wiluna Martu People have raised their concerns about the state regulatory regime and radiation safety with the government of Western Australia.

The Native Title Claimants have in particular been seeking for the right to negotiate directly with uranium explorers so that their unique concerns as traditional owners and traditional land users can be properly recognised and their native title rights protected.

## Financing Concept: Equity & Debt

TORO ENERGY LIMITED



## Wiluna Project Summary

- The Wiluna project is the most advanced uranium project in Australia
  - one of only two Australian projects to receive State environmental approval in last seven years
- Toro has worked hard to bring project to market
  - Awaiting final Federal Government decision
  - Mining process proven
  - Processing technique proven
  - Excellent relationship with local people
  - Engaging with several potential finance partners
- Wiluna targeted to be the next new uranium mine in Australia

- Subject to approval and financing commitment in latter 2013
- First production and sales during 2015



## Theseus : a potential second project

TORO ENERGY LIMITED







## **Theseus Exploration Targets**

TORO ENERGY LIMITED

26

### Highest grade intercept: 0.79m @ 1.17% pU<sub>3</sub>O<sub>8</sub> from 124.32m in LM0175 (grade-thickness 0.92%GT)



## **Theseus Project Summary**

- Theseus is an exciting new uranium target
- A new uranium province
  - High grade intersections
  - Geologically open in many directions
  - Good potential for ISR operation
  - Excellent relationship with local people
- Initial Resource and updated Exploration Target range

Inferred Mineral Resource at Toro preferred cutoffs

Inferred Mineral	(ppm)	Tonnage (Mt)	U <sub>3</sub> O <sub>8</sub> (ppm)	Metal U <sub>3</sub> O <sub>8</sub>	
Resource				(t)	(Mlb)
Grade Cut-off	200	6.3	493	3,100	6.9
GT Cut Off	1000	6.1	491	3,000	6.6

Exploration Target Range (ETR) of:

28 - 35 Million tonnes of ISR Uranium at 450-520ppm  $U_3O_8$ for 28Mlb to 40Mlb  $U_3O_8$  (12,600t to 18,200t  $U_3O_8$ ) ENERGYLIMITED

## Forward Work Plan

TORO ENERGY LIMITED

28



### Prime Objectives for 2012-2013

- Awaiting final disequilibrium studies on recovered core (Q1 2013)
- Core recovery from 12 to 20 holes 2500m (2013)
- Combination of aircore / core samples to extend resource (2013)
- Drill 5000m to test regional potential (2013)

## **Key Points**

### Market

- Global uranium market indicates growth in demand
- Supply shortfall opening in 2015

### The Wiluna Project

- Most advanced new uranium project in Australia
- WA State approval and is nearing final Federal Govt decision
- Development dependent on financing and market conditions
- Target commitment decision in late 2013 with first uranium sales in 2015

### **The Theseus Project**

- Significant blue sky and the potential to be a second project in the medium term
- Potential evolution of a new uranium province with significant regional-scale and ISR mining potential
- Initial resource established along with upgrade of exploration target range





## **Other Exploration**



## Toro's Uranium Exploration Model

Central Australia - analagous to the Kazakhstan Uranium Province - Unexplored



### Targeting Approach:

1) Airborne EM to define palaeovalley systems-recent NT gov't collaborative survey

2) Simple aircore drilling to find redox boundaries and uranium –Mt Denison discovery (*Discovery in one-year*)
3) Follow-up mud rotary drilling, gamma logging and core recovery to define uranium grade and character

- Uraniferous hinterland
- Three vast Tertiary Fluvial Basins over 100m thick 'ISR' potential

ENERGY LIMITED

- Known hydrocarbon/uranium occurrences in lower basins
- Sequences of Oxidised and Reduced clays and Sands towards the base of fluvial systems-Redox boundaries



## Toro's Key NT Exploration Assets

TORO ENERGY LIMITED



### **REYNOLDS RANGE and WISO PROJECTS**

- Similar geological-host and redox characteristics compared to the "Kazakhstan style" roll front deposits.
- Toro has an extensive ground position in the Reynolds Range-Wiso region that equates in area to one of the Kazakhstan redox fronts
- Very high exploration upside in the Tertiary basins of central Australia.
- Mt Denison uranium discovery

### McARTHUR PROJECTS

- · Recognition of a large-scale geochemical alteration system
- Up to 280 ppm U3O8 and 1360 ppm Cu in rockchips of quartz sandstone that is elsewhere chemically 'bland' .
- Represent the surface expression of fertile breccia pipes in the underlying Gold Creek Volcanics. Analogous with the Arizona Strip Uranium Province.
- Nearby Running Creek-Stanton breccia pipes also show anomalous uranium at surface associated with copper mineralisation suggesting a genetic connection to the stratigraphically higher Karns system.



2)



## Appendix



## **Competent Person's Statement**

TORO ENERGY LIMITED

34

The information in this report that relates to Mineral Resources is based on information compiled by Dr Katrin Karner of Toro Energy Limited, Mr Robin Simpson and Mr Daniel Guibal of SRK Consulting (Australasia) Pty Ltd. Daniel Guibal takes overall responsibility for the Resource Estimate, and Dr Karner takes responsibility for the integrity of the drilling and bulk density results. Dr Karner, Mr Simpson and Mr Guibal are Members of the Australasian Institute of Mining and Metallurgy (AusIMM), and have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity they are undertaking to qualify as Competent Persons as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2004)'. The Competent Persons consent to the inclusion in this release of the matters based on the information in the form and context in which it appears.

Information in this report relating to Exploration results is based on information compiled by Mr Mark McGeough who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr McGeough is a full-time employee of Toro, and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr McGeough consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.

Information in this report relating to Deconvolved Gamma Results, is based on information compiled by Mr David Wilson BSc MSc who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Wilson is a full-time employee of 3D Exploration Ltd, a consultant to Toro and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Wilson consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.

## Uranium Resources Table

TORO ENERGY LIMITED

Project Name	Category	Resource M Tonnes	Grade U <sub>3</sub> O <sub>8</sub>	Contained U <sub>3</sub> O <sub>8</sub> , tonnes	Contained U <sub>3</sub> O <sub>8</sub> , Mlb
Centipede	Measured	3.08	552	1,703	3.75
Centipede	Indicated	7.56	555	4,197	9.25
Centipede	Inferred	2.30	272	627	1.38
Lake Way	Indicated	2.57	492	1,265	2.79
Lake Way	Inferred	7.38	544	4,015	8.85
Total Wiluna Project		22.89	516	11,807	26.02
Millipede	Indicated	1.77	412	728	1.61
Millipede	Inferred	5.51	533	2,935	6.47
Dawson Hinkler Well	Inferred	13.09	312	4,077	8.99
Nowthanna	Inferred	11.91	399	4,750	10.47
Total Wiluna Regional		32.28	387	12,490	27.54
Total Wiluna Project & Regional		55.17	441	24,297	53.56
Theseus Project Resource	Inferred	6.3	493	3,100	6.9
Toro Energy Total Resources				27,397	60.46

All resources quoted on a 200ppm  $U_3O_8$  cut-off.



## **Theseus Project Exploration Target Range**

TORO ENERGY LIMITED

### 20Mt to 40Mt @ approx 400 to 500parts per million (ppm) $U_3O_8$ , for 10,000t to 20,000t $U_3O_8$ or 22Mlb to 44Mlb $U_3O_8^{#}$ .

### **# CAUTIONARY STATEMENT**

The Exploration Target Range (ETR) is conceptual in nature and there has been insufficient exploration completed to define this material as a Mineral Resource. There is no certainty that the further work referred to herein will result in the determination of a Mineral Resource.

- cU<sub>3</sub>O<sub>8</sub> denotes results obtained via chemical assay
- eU<sub>3</sub>O<sub>8</sub> denotes results obtained via down-hole gamma logging
- pU<sub>3</sub>O<sub>8</sub> denotes results obtained via down-hole Prompt Fission Neutron logging 'PFN'

Down-hole gamma logging of drill holes provides a powerful tool for uranium companies to explore for and evaluate uranium deposits. Such a method measures the natural gamma rays emitted from material surrounding a drill hole. Gamma radiation is measured from a volume surrounding the drill hole that has a radius of approximately 35cm. The gamma probe is therefore capable of sampling a much larger volume than the geological samples recovered from any normal drill hole. Gamma ray measurements are used to estimate uranium concentrations with the commonly accepted initial assumption being that the uranium is in (secular) equilibrium with its daughter products (or radio- nuclides) which are the principal gamma ray emitters. If uranium is not in equilibrium (viz. in disequilibrium), as a result of the redistribution (depletion or enhancement) of uranium and/or its daughter products, then the true uranium concentration in the holes logged using the gamma probe will be higher or lower than those reported in this announcement.

Information in this report relating to the Theseus Resource Estimate is based on work supervised by Michael Andrew, who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Andrew is a full-time employee of Optiro, and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Andrew consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.

The down-hole PFN logging tool directly measures the amount of the isotope  $U^{235}$  that is present in all natural uranium. This is considered to give a reliable estimate of the grade of uranium results with a cut off at or above 0.5m @ 300ppm. For further information on the use and calibration of the PFN, readers are directed to the GAA Wireline website <u>www.gaawireline.com</u>.

All drill holes are vertical and all intersections are considered to be true widths.



## The Toro Board\*

#### TORO ENERGY LIMITED



Dr Erica Smyth Non-Executive Chairman

30+ years experience in the mineral and petroleum industries,



### Vanessa Guthrie

Managing Director Extensive executive & management experience in sustainability, environment, government & approvals, mine operations, community & indigenous in Western Australia.



### Greg Hall Non-Executive Director

30+ years resource sector experience, including 21 years uranium (Ranger, Jabiluka & Olympic Dam) and uranium marketing (ERA North America) – Founding MD of Toro Energy



### Peter Lester Non-Executive Director

Extensive experience in senior operating, development and corporate roles with Newcrest, North, CRA and MIM



### Andrew Coles Non-Executive Director

Currently CFO of OZ Minerals Ltd, previously Treasury roles at Esso, Exon Mobile and Zinifex

\*From Feb 8th, 2013

### **Management Team**

#### TORO ENERGY LIMITED



### Vanessa Guthrie

Managing Director Extensive executive & management experience in sustainability, environment, government & approvals, mine operations, community & indigenous in Western Australia.



#### Todd Alder

Company Secretary & General Manager, Finance & Corporate 16+ years financial management experience within the Mining, Energy and Steel Manufacturing industries



#### <u>Mark McGeough</u>

General Manager, Exploration

+25 years experience in geological & exploration management, project generation and acquisition, uranium and other commodities.



#### **Richard Yeeles**

Approvals and Community Director - Wiluna Extensive management experience in government/ community relations, ex-BHPB Olympic Dam Expansion, WMC, Government.



#### John Baines

#### Manager – Processing

17 years of experience in a range of operational and process design roles. He specialises in uranium processing and has worked for BHPB, WMC and as a general consultant to the industry.

### Current Recruitment:

- General Manager Wiluna Project
- General Manager Project Finance



### Greg Shirtliff

#### Geology Manager

13 years experience in geology and geochemistry of uranium including a PhD from Australian National University. Employed in roles within the environment, mining and exploration side of the uranium mining industry with ERA-Rio Tinto and Cameco prior to joining Toro Energy.



#### David Rawlings

Regional Exploration Manager

+20 years experience in exploration, previously with Cameco Australia, NT Mines Dept, undertook PhD in NT McCarthur River region

## Contact



**Greg Hall** Non-Executive Director

### **Toro Energy Limited**

### **Exploration Office**

3 Boskenna Ave NORWOOD SA 5067 Telephone: +61 8 8132 5600

### Vanessa Guthrie

Managing Director

### **Corporate & Wiluna Project Office**

L2 35 Ventnor Ave WEST PERTH WA 6005 Telephone: +61 8 9214 2100

Email:info@toroenergy.com.auWebsite:www.toroenergy.com.au

## **Toro Projects**

## THE TORO PROJECT PYRAMID

**Production Feasibility Studies &** Wiluna (U) **Regulatory Approvals Resource Definition &** Theseus (U) **Scoping Studies** Advanced Mackay Potash, Reynolds Range (U), Namibia Deep Yellow JV (U) **Exploration** Pokali East (Cu, Ni), Kiwi North (Fe), Greenfields Stanton Extended JV (Cu, Co), Benmara (U), **Exploration** Browns Range JV (REE), Walabanba Hill JV (Cu, Au)



## **Project Development**



**Conceptual Design Constraints** Alkaline leach

2008

**Pre-Feasibility Study** 

### **Options Identified / Studied**

A - CCD Wash and RIP

- B Heap Leach
- C ROM Wash and RIP
- D Direct Precipitation

Supporting Work 2007 Met. Testwork - ANSTO **Basic Mineralogy** 

Verified Design Constraints Must be alkaline leach

Must utilise Direct Precipitation Saline water replacement not feasible Resin in Pulp not feasible

2009

**Optimisation Study** 

Options B and D are both

viable but need more

**Options Studied** B - Heap Leach

#### D - Conventional Leach

D1 - CCD Recycle to Comminution

- D2 CCD Overflow to Precipitation
- D3 RO Plant for CCD wash
- D4 CCD Overflow to Leach

#### Additional Supporting Work 2009 Optimisation Testwork

2009 Supplementary SDU Precip Testwork

### **Resource Evaluation Pit**

Heap Leach (2010) - 6 x Column tests with different Lixiviants

#### Conventional Leach (2011) Variability Testwork

- 40 samples based upon 14 ore groupings

2 x 10 day piloting campaigns

- 2 different ore blends
- Cyclone viability tests
- Dynamic thickening tests
- Rheology tests
- SDU precipitation tests
- SDU refining tests

#### Feasibility Design Conventional Alkaline Leach CCD Overflow to Direct SDU Precipitation Recycle of Barren Precipitation Liquor SDU Refining to UO4 2H2O

**41** 

#### Additional Supporting Work

Variability Testwork **Piloting Campaign** Testwork enabled from Piloting

Improving Definition of Feasible Options, Rejection of Non-Preferred Options

## **Approvals Timeline**

TORO ENERGY LIMITED

