Advancing Towards Uranium Production

Toronto Stock Exchange: PWE

Frankfurt Exchange: P8A

January 2013

Safe Harbour Statement

Certain statements in this presentation are forward-looking statements, which reflect the expectations of management regarding the Company's future operations. Forward-looking statements consist of statements that are not purely historical, including any statements regarding beliefs, plans, expectations or intentions regarding the future. Such statements are subject to risks and uncertainties that may cause actual results, performance or developments to differ materially from those contained in the statements. No assurance can be given that any of the events anticipated by the forward-looking statements will occur or, if they do occur, what benefits the Company will obtain from them. These forward-looking statements reflect management's current views and are based on certain expectations, estimates and assumptions which may prove to be incorrect. A number of risks and uncertainties could cause our actual results to differ materially from those expressed or implied by the forward-looking statements, including: (1) a downturn in general economic conditions in North America and internationally, (2) the inherent uncertainties and speculative nature associated with uranium exploration, (3) a decreased demand for uranium, (4) any number of events or causes which may delay or cease exploration and development of the Company's property interests, such as environmental liabilities, weather, mechanical failures, safety concerns and labour problems; (5) the risk that the Company does not execute its business plan, (6) inability to retain key employees, (7) inability to finance operations and growth, (8) inability to obtain all necessary environmental and regulatory approvals, (9) an increase in the number of competitors with larger resources, and (10) other factors beyond the Company's control. These forward-looking statements are made as of the date of this presentation and the Company assumes no obligation to update these forward-looking statements, or to update the reasons why actual results differed from those projected in the forward-looking statements. Additional information about these and other assumptions, risks and uncertainties are set out in the "Risks and Uncertainties" section in the Company's MD&A filed with Canadian security regulators.

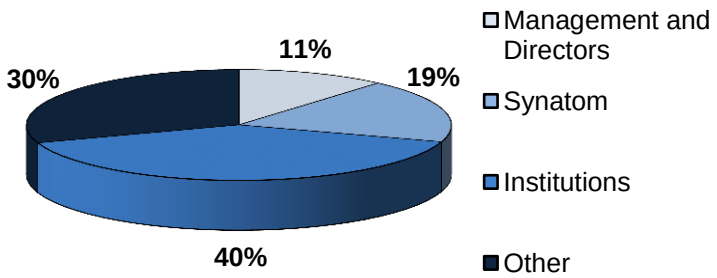
Investment Highlights

- Emerging, “Near-Term” uranium producer. Projected construction – 2013. Focused on U.S. market
- Strong economics demonstrated through PEA at $65.00 lb U_3O_8
- Exploring & developing >60,000 acres in the Northern Plains of the United States
- World-wide uranium expertise
- Permitting-stage projects – Dewey-Burdock - permits and license applications filed
  Centennial - baseline studies completed
- Large uranium resource base:
  - 16.2M lbs Indicated
  - 6.6M lbs Inferred
- Further historical resources within both project areas for future development (non N.I. 43-101 compliant)
- Advanced exploration properties for future development

Capital Structure

▪ Shares Outstanding	125.8M
▪ Stock Options (weighted average exercise price of $0.61 per share)	7.6M
▪ Warrants (23.9M at $0.60 and 3.1M at $0.47 Expiry March 15, 2013)	27.1M
▪ (5 M at $0.20 Expiry November 6 2013)	5.0M
	165.5M
▪ Market Cap 12/12/2012	C$16.4M
▪ Cash (approx.)	C$1.0 M

Approximate Share Ownership



Production/Cash Flow Pipeline

- **Goal:** Bring at least one new project on stream every 5-7 years
- **Long-term Objective:** Sustainable production @ 2-4 million lbs/year

Near-term Production

Dewey-Burdock

Completing permitting process to production

Initial Stage Permitting

Centennial

Confirming/expanding historical showings

Advanced Exploration

Aladdin

Dewey-Terrace

Powder River Basin

Targeting potential roll-front deposits

Officers & Directors

- **Richard Clement Jr., P.G., MSc**.,– ***President, CEO & Director***
  - >40 years' experience in uranium corporate management
  - Includes uranium exploration, development, production in U.S. and Australia
- **Thomas Doyle** – ***Vice President Finance, CFO & Director***
  - >25 years' experience financing international and domestic resource projects
- **Greg Burnett, MBA, BASc**. – ***Vice President Administration & Director***
  - >20 years' experience in structuring and financing public market transactions and public company management
- **Douglas Eacrett, CA, LL.B**. – ***Independent Director***
  - >20 years' experience in corporate securities law, 30 years' experience as a Chartered Acct.
- **Malcolm Clay, BA, FCA** – ***Independent Director***
  - >25 years' experience as a Partner of KPMG Chartered Accountants, former non-executive Chairman of KPMG Canada
- **John Dustan, MBA** – ***Independent Director***
  - > more than 20 years' experience in corporate oversight and governance as an advisor and director of numerous public and private sector groups.

Technical Team

- **Jim Bonner, P.G., BSc. – *Vice President Exploration***
  - >35 years' experience in uranium industry
  - Exploration Manager for Union Pacific Railroad's Rocky Mountain Energy

- **Richard Blubaugh, MAPA, BASc., Biology – *Vice President Health, Safety & Environmental Resources***
  - >25 years' experience project and program management
  - In-depth experience in permitting and environmental management, working with state & federal agencies

- **Frank Lichnovsky P.G., BSc., – *Chief Geologist***
  - >40 years' experience in uranium exploration, development & production
  - Worked in both U.S. and Australia

- **John Mays, P.E., BSc., Chemical Engineering – *Vice President Engineering***
  - >20 years experience in design, construction, operation of ISR mines worldwide
  - former Chief Insitu Mining Engineer, Urasia Energy Ltd. Former Superintendent of Wellfield Construction, Power Resources, Smith Ranch/ Highland Uranium Project

- **Mark Hollenbeck, P.E., BSc. Chemical Engineering – *Project Manager, Dewey Burdock***
  - >15 years' experience in the energy producing industries
  - Elected to South Dakota House of Representatives from 1989 –1994, and mayor of Edgemont from 2001 -2006

Advisory Board

- **Dr. Charles Groat, PhD. Geology** – ***Technical Advisor***
  - Past Director of the U.S. Geological Survey
  - New Director of the Center for International Energy & Environmental Policy at the University of Texas, Austin
  - Jackson Chair in Energy and Mineral Resources at the Jackson School of Geosciences

- **Anthony J. Thompson, Esq.** – ***Technical Advisor***
  - Primary Outside Counsel to the American Mining Congress, now the National Mining Association for Radioactive Waste Issues
  - Appointed by President Bush in 1992 to the National Risk Assessment and Management Commission
  - Practice includes Legislation and Regulatory Counseling Involving Compliance with Environmental and Natural Resources Law and Regulations, Risk Assessment, Management, and Occupational Health and Safety

Summary of Projects

Dewey Burdock

- 6.7M lbs U_3O_8 Indicated
- 4.5M lbs U_3O_8 Inferred

Centennial

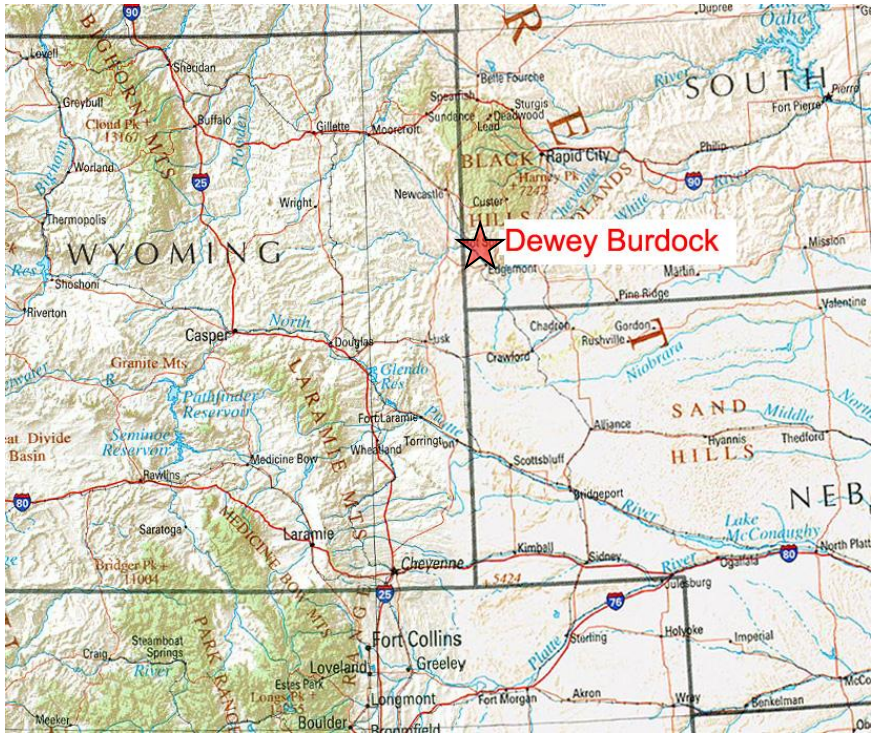
- 9.5M lbs U_3O_8 Indicated
- 2.1M lbs U_3O_8 Inferred

Project Acreage

Dewey-Burdock	17,800
Centennial	7,100
Dewey Terrace	13,000
Aladdin	15,000
Powder River Basin	6,000
Colony	1,300

Total Acreage 60,200

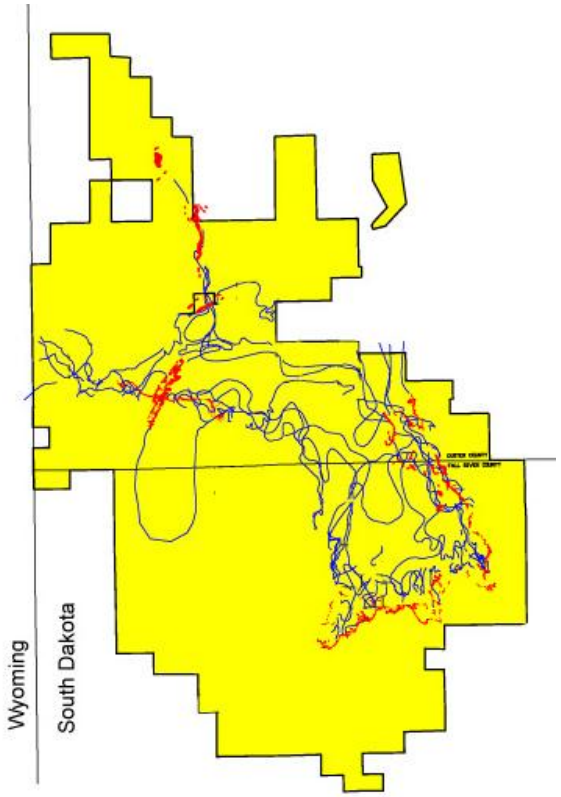
Dewey-Burdock Project, South Dakota



- Edgemont uranium district discovered in the 1950's
- Company controls U.S. claims, private minerals and surface covering 18,000 acres
- Previous operator Tennessee Valley Authority (TVA) drilled more than 4,000 drill holes
- Powertech acquired data through private purchase
- 88 miles of measured ore trends –only 18 miles drilled to date
- Predecessor company estimated potential for 25 million pounds

POWERTECH URANIUM CORP.

Dewey-Burdock Project, South Dakota



Location of main oxidation fronts, areas of dense drilling

N.I. 43-101 Resource Estimate (March 2010)

- 6.7M lbs Indicated (0.214% U_3O_8)
- 4.5M lbs Inferred (0.179% U_3O_8)

Preliminary Economic Assessment (April 2012)

- NPV = US$109.1 million @ 8% DCF*
- IRR = 48%
- Capital Cost (Phase I) = US$54.3 million
- Life of Mine 9 years, Producing 8.4 million lbs
- Payback = 4th Quarter Production Year 2
- Annual production of ~1,000,000 lbs U_3O_8
- Significant potential remains to further improve project economics through expansion of the resource base

*Using US$65/lb U_3O_8

Dewey-Burdock Project - Full Cycle Operating Cost Detail

Preliminary Economic Assessment (April 2012)

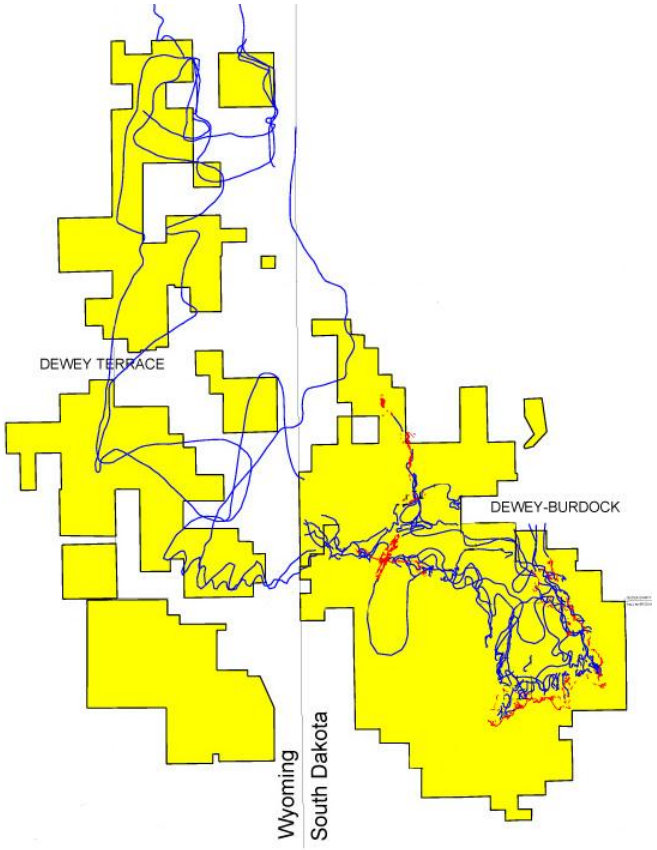
Full Cycle Operating Cost Detail

Well Fields =	$13.18
Chemicals and Labor =	$ 5.70
Restoration =	$ 0.97
Operating Cash Cost =	**$19.85/lb.**
Royalty and Taxes =	$ 7.48
Corporate Overhead =	$ 0.46
End Life Decommissioning =	$ 1.09
Contingency (20%) =	$ 4.43
Full Cycle Operating Cost =	**$ 33.31/lb.**

Dewey-Burdock Permitting Process

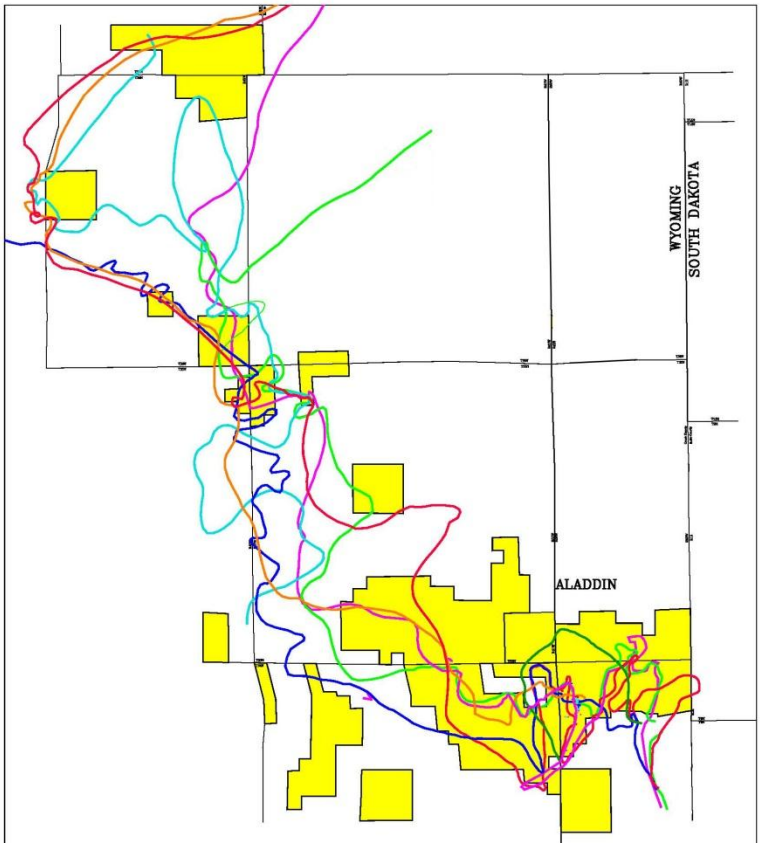
- The following points summarize the best estimates of the Nuclear Regulatory Commission (“NRC”) staff as of January 2013:
  - **July 2012:** Draft License received
  - **November 2012:** Draft Supplemental Environmental Impact Statement (“SEIS”) received
  - **January 2013:** 2nd Draft NRC License, received
  - **February 2013:** Final Safety Evaluation Report (“SER”)
  - **May 2013:** Final SEIS
  - **Effective Operating License**, 30 days after publication of FSEIS
- The other agencies with permitting oversight have indicated that their permits will be forthcoming within the same timeframe as estimated by the NRC for the final NRC License

Dewey-Terrace Project, Wyoming



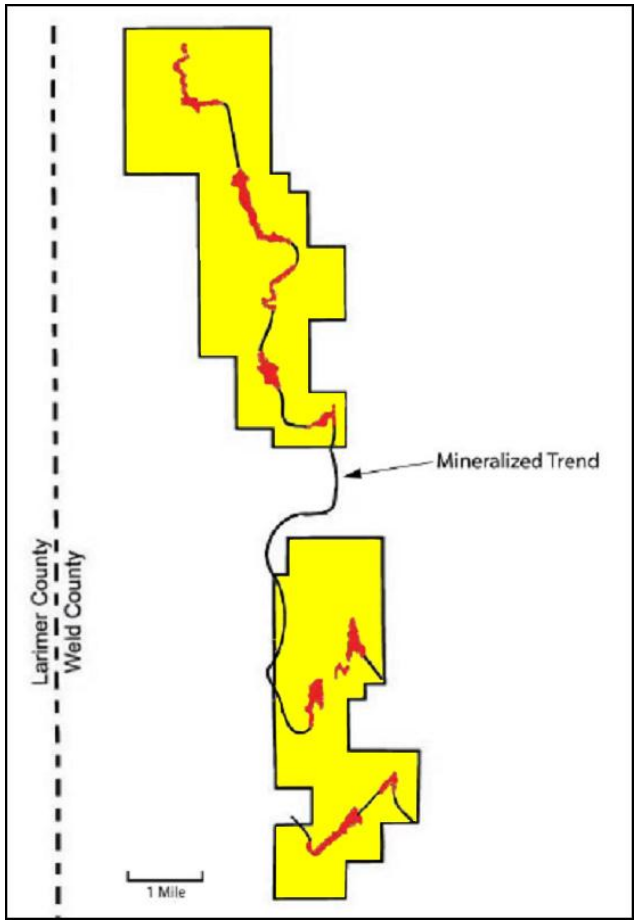
- Powertech acquired 13,000 acres of federal mining claims and state mining leases along historic mineralized trends
- Trends defined by TVA & Teton Exploration as extensions of Dewey Burdock
- Acquired Teton exploration data – 298 drill holes, 208,500 feet logged, drill hole record sheets for over 494 holes
- Powertech completed 20-hole confirmation program. Drilling and coring confirms historical resources
- Roll fronts found on Dewey Terrace are continuous from the Dewey Burdock project and have been confirmed by the exploration data.

Aladdin Project, Wyoming



- Powertech acquired 15,000 acres of federal mining claims, state mining leases and privately-owned leases along historic mineralized trends
- Same host unit as Dewey Burdock
- Acquired historical Teton Exploration data: 589 drill holes with 222,000 feet logged, record sheets for over 1,800 holes
- 60 drill hole exploration program completed, confirms historical data
- NI 43-101 Report (June 21,2012) identified 1,038,023 lbs. indicated Resources, contained in 466,232 tons averaging 0.111% U_3O_8.
- Additional 101,255 lbs. of Inferred Resources identified, contained in 42,611 tons averaging 0.119% U_3O_8
- NI 43-101 Report also indentified a potential 5.0 to 11.0 million lbs of uranium (.20GT cut-off) averaging 0.11%-0.12% U_3O_8 . Grade and quantity of this potential is conceptual in nature
- Data on three key historical drill holes yields 10 feet of 0.47% U_3O_8, 6 feet of 0.695% of U_3O_8 and 6 feet of 0.504% of U_3O_8

Centennial Project, Colorado



N.I. 43-101 Resource Estimate (March 2010):

- 9.5M lbs. Indicated (0.09% U_3O_8)
- 2.1M lbs. Inferred (0.09% U_3O_8)

- Discovered in 1970s
- Powertech purchased 5,760 acres of uranium rights and historical data from Anadarko Petroleum
- Total Project holdings of 7,100 acres of uranium rights
- Additional lands under negotiation
- Over 3,500 drill holes with >1,000,000 ft. of drilling
- All baseline studies complete, permit applications ready to be completed and filed

Uranium & Nuclear Energy in the USA

The future of U.S. uranium mining

- Approximately 90% of U.S. uranium production in 2006 came from ISR mines – *U.S. Energy Administration Information*
- Nuclear power accounted for about 20% of the total net electricity generated in the United States in 2010 - *U.S. Energy Information Administration*
- Owners and operators of U.S. civilian nuclear power reactors purchased the equivalent of 47 million pounds of uranium in 2010. Only 8% of delivered uranium came from the United States - *U.S. Energy Information Administration*
- ISR mining accounted for approximately 41% of global uranium production in 2010, up from 21% in 2004 – *World Nuclear Association*
- Powertech's Dewey Burdock project is one of the highest grade ISR projects in the development pipeline in the U.S.

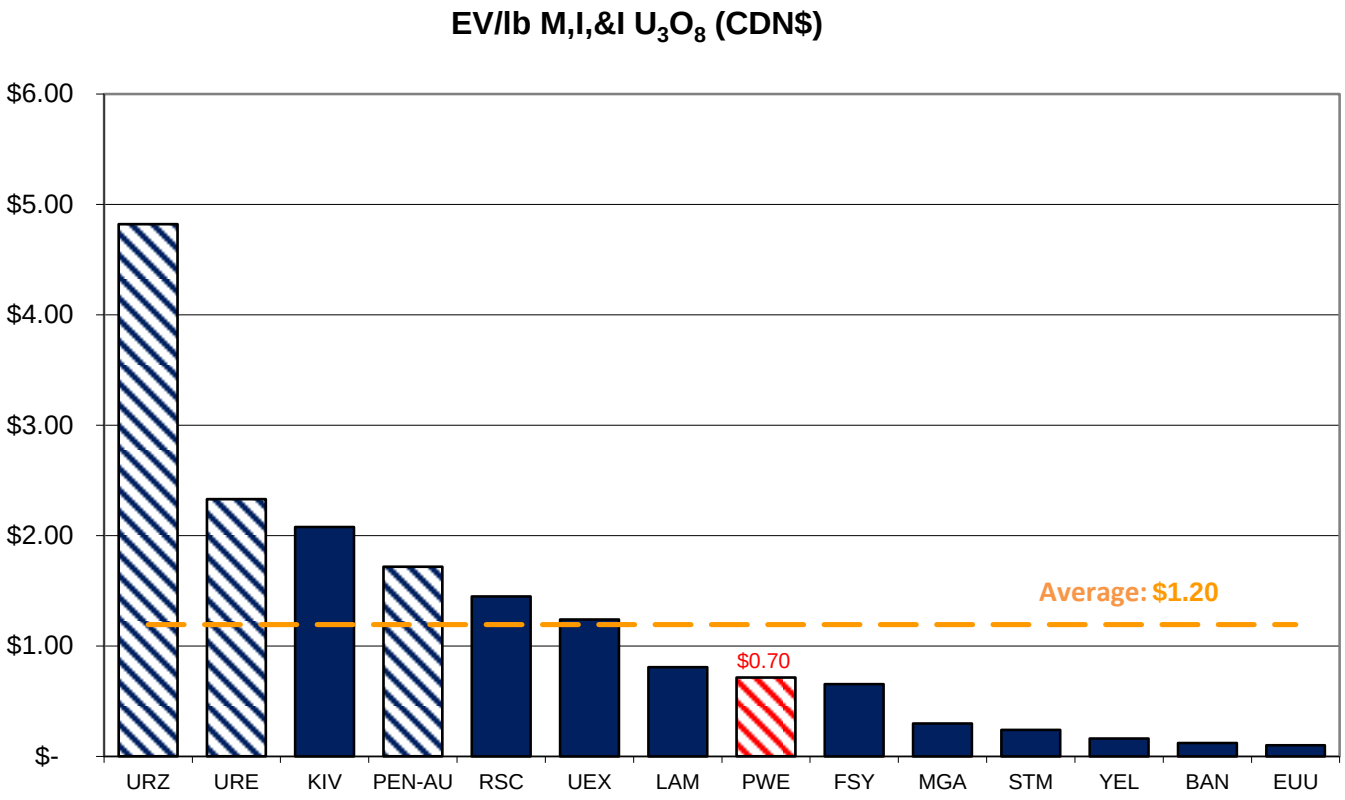
Selected U.S. ISR Uranium Development Projects

Company	Project	GT Cutoff	N.I. 43-101 Mineral Resource (M lbs)				Annual Production[1]	Mine Life (yrs)
			M&I	Grade	Inferred	Grade		
Powertech	**Dewey-Burdock**	**0.5**	**6.68**	**0.214%**	**4.53**	**0.179%**	**1,000,000**	**9**
Powertech	Centennial	0.2	10.37	0.090%	2.33	0.090%	700,000	14
Uranerz	Nichols Ranch	0.2	2.95	0.114%	0.00	0.000%	620,000	5.25
UR Energy	Lost Creek	0.3	9.80	0.058%	1.10	0.076%	1,000,000	6.5
Peninsula Energy	Lance	0.2	14.72	0.051%	36.80	0.048%	2,200,000	12
Uranium Energy	Goliad	0.3	5.48	0.050%	1.50	0.050%	n/a	n/a
Uranium Energy	Palangana	0.5	1.06	0.135%	1.15	0.176%	n/a	n/a

[1] Forecast taken from the most recent publically available technical report

Comparable Company Analysis I – Pounds in the Ground

- Powertech is undervalued relative to other junior uranium companies (average trading value of $1.20/lb)
- Powertech is even more undervalued relative to other companies with U.S. in-situ recovery uranium projects, such as URZ, URE & PEN-AU (blue striped bars below)

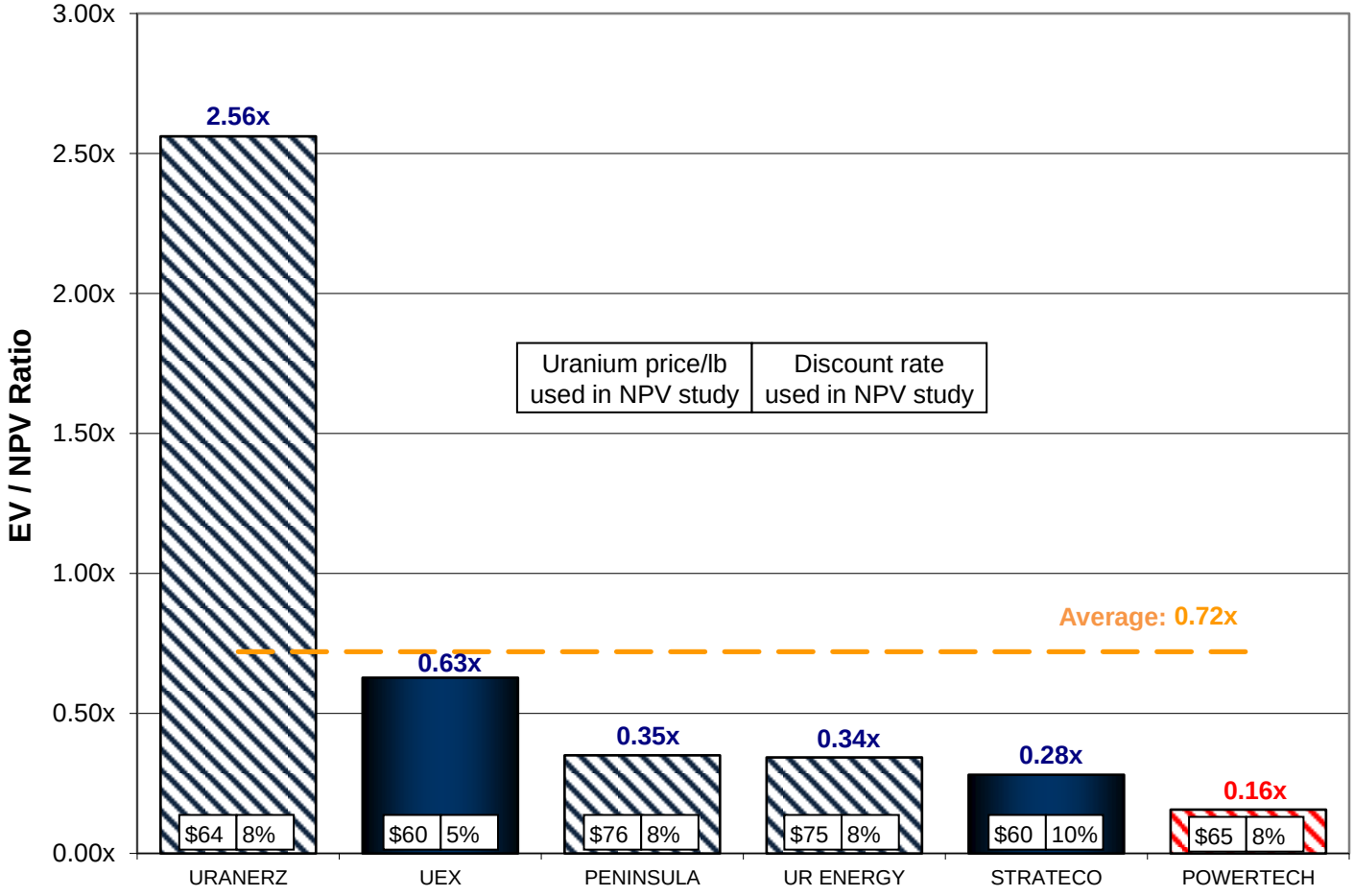


Source: Public company documents. Prices from Thomson One as at December 12, 2012

Blue-striped bars are other companies with U.S. based ISR uranium projects

Comparable Company Analysis II – "EV/NPV"

- This chart shows companies' enterprise value relative to project NPV
- Powertech is undervalued relative to other development-stage companies
- These numbers do not include the NPV at Powertech's Centennial project
- Powertech's technical report has also been completed using a relatively conservative uranium price



Based on pre-tax NPVs as published in N.I. 43-101 compliant technical reports. Does not include Powertech's Centennial project

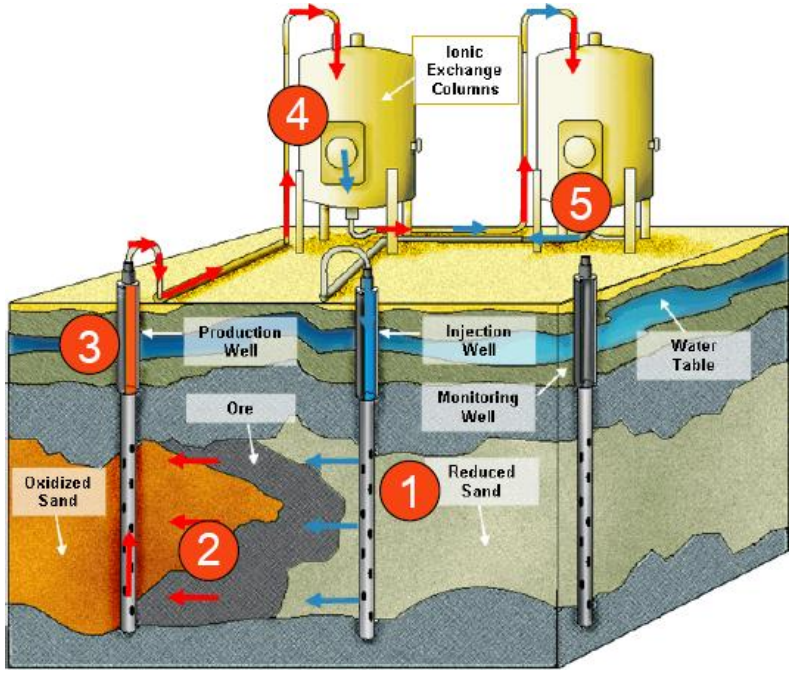
Enterprise Value calculated using December 12, 2012 TSX/TSX-V closing prices

Blue stripes indicate companies with U.S.-based in-situ uranium projects

In-Situ Recovery Mining

- Cost efficient: lower capital costs and less equipment
  - Lower operating costs with fewer personnel: 75 workers per 1 million lbs. of uranium produced, conventional mining *requires more than 500 workers per 1 million lbs*

- Minimal environmental impact



1. Oxygenated groundwater injected into ore-bearing sandstone
2. Fluids dissolve uranium as they pass through the ore zone
3. Pregnant solutions brought to surface by production wells
4. Uranium is extracted in Ion exchange columns
5. Stripped fluids re-oxygenated and re-injected into the well-field

Recycling fluids through the well-field is an efficient, non-consumptive use of groundwater. Up to 90% of in-place uranium is recovered

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