



Uranerz
ENERGY CORPORATION

CLEAN
energy

**Advanced Stage Uranium
Development in Wyoming**



International Atomic Energy Agency

**International Symposium on Uranium
Raw Material
for the Nuclear Fuel Cycle**

URAM – 2009

June 22 – 26, 2009

Vienna, Austria

NYSE Amex Exchange
Toronto Stock Exchange **URZ**

Frankfurt
Exchange **U9E**

 **Uranerz**
ENERGY CORPORATION

IAEA URAM -2009

Licensing Status of New and Expanding In-Situ Recovery Uranium Projects in the United States

By: **Glenn Catchpole**
Michael Thomas

NYSE Amex Exchange
Toronto Stock Exchange **URZ**

Frankfurt
Exchange **U9E**

 **Uranerz**
ENERGY CORPORATION

Cautionary Statements

This presentation may contain or refer to "forward-looking information" and "forward-looking statements" within the meaning of applicable United States and Canadian securities laws, which may include, but are not limited to, statements with respect to resource estimates, projections, our planned exploration and drilling programs, the availability of future financing for the acquisition or related exploration, and other plans, transactions, projections, estimates and expectations. Such forward-looking statements reflect our current views with respect to future events and are subject to certain risks, uncertainties and assumptions, including, the risks and uncertainties outlined in our most recent financial statements and reports and registration statement filed with the United States Securities and Exchange Commission (the "SEC") (available at www.sec.gov) and with Canadian securities administrators (available at www.sedar.com). Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those anticipated, believed, estimated or expected. We do not undertake to update forward-looking statements.

Investors are cautioned that the potential quantity and grade described in this presentation is conceptual in nature and does not meet the NI 43-101 classification of "measured", "indicated" or "inferred" mineral resources as defined by NI 43-101 and the CIM Definitions Standards incorporated by reference therein. There has been insufficient exploration to define a NI 43-101 categorized "inferred", "indicated" or "measured" mineral resource on the Arkose Property, and it is uncertain if further exploration will result in the target being delineated as such a categorized mineral resource.

Cautionary Statement for U.S. Investors concerning estimates of potential target mineral resources:

The NI 43-101 Technical Report referenced in this presentation is a requirement of NI 43-101 and includes estimations of potential mineral resources for further targeted exploration by the issuer disclosed pursuant to the applicable provisions of NI 43-101, as described herein. As a company listed on the TSX, we are required by Canadian law to provide disclosure in accordance with NI 43-101. U.S. reporting requirements for disclosure of mineral properties are governed by the United States Securities and Exchange Commission ("SEC") and included in the SEC's Securities Act Industry Guide 7 entitled "Description of Property by Issuers Engaged or to be Engaged in Significant Mining Operations" ("Guide 7"). NI 43-101 and Guide 7 standards are substantially different. For example, the terms "mineral reserve", "proven mineral reserve" and "probable mineral reserve" are Canadian mining terms as defined in accordance with NI 43-101. These definitions differ from the definitions in Guide 7. The NI 43-101 Technical Report and this presentation use or may use the terms "mineral resource," "potential uranium exploration target", "potential mineral resource", "potential mineral deposit" and "potential target mineral resource". U.S. Investors are advised that these terms and concepts are set out in and required to be disclosed by NI 43-101 as information material to the issuer; however, these terms and concepts are not recognized by the SEC or included in Guide 7, and these terms and concepts are normally not permitted to be used in reports and registration statements filed with the SEC. U.S. Investors should be aware that the issuer has no "reserves" as defined by Guide 7 and are cautioned not to assume that any part or all of potential target mineral resources will ever be confirmed or converted into Guide 7 compliant "reserves". U.S. Investors are cautioned not to assume that all or any part of a potential target mineral resource exists, or is economically or legally mineable.

NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E

 **Uranerz**
ENERGY CORPORATION

Background

- In-Situ Recovery (ISR) Mining First Tested in the United States (US) in the Late 1960s
- Commercial ISR Mining Started in the US in Mid 1970s
- Today 28% of World Primary Uranium Production Comes from ISR Mining in Australia, Central Asia and the US
- Historically, Only Three States in the US have had Commercial Level ISR Uranium Mining; Nebraska , Texas and Wyoming
- Today, all Commercial ISR Production Comes from These Same Three States – Nebraska, Texas & Wyoming

NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E

 **Uranerz**
ENERGY CORPORATION

World and US ISR Percentage of Primary Uranium Production (2008)

- World – 28%
- USA – 77% (of US Production)
- Total US Production (approximate)
3.9 million Pounds as U_3O_8
(1,500 tU)

US ISR Uranium Production in 2008

(approximate)

| | lbs. U ₃ O ₈ | tU |
|--------------------|------------------------------------|--------------|
| Nebraska | 600,000 | 231 |
| Texas | 1,200,000 | 462 |
| Wyoming | 1,200,000 | 462 |
| TOTAL (ISR) | 3,000,000 | 1,155 |

History of ISR Production in the USA

- Some Testing in Wyoming in late 1960s
- Commencement of Commercial ISR Operations in Mid 1970s in Texas and Wyoming
- Some Test ISR Mining in Colorado and New Mexico in Late 1970s and Early 1980s

NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E

 **Uranerz**
ENERGY CORPORATION

Nuclear (Uranium) Renaissance

- 2002 – 2003 Uranium Sales Prices Start to Rise
- Renewed Interest in US to Locate & Develop Uranium Properties (primarily in the West)
- Many New Public & Private Companies Formed to Participate in the Boom (400 plus World Wide)
- Re-staking and Re-leasing Previously Known Properties
- Emphasis on Potential ISR Minable Properties but Conventional Also
- Some Serious Companies & Some Just Promotional Companies

NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E

 **Uranerz**
ENERGY CORPORATION

Then the Air Went Out of the Balloon

- Spot Price Peaked in 2007 at ~\$138/lb. and Then Started Down
- Coupled with the Recession in the World Economy, Financing Uranium Projects Became Difficult and the Majority of the “New” Companies Went Out of Business or Went into Standby (Survival) Mode
- Those Companies with Good Properties, Strong Management and Sound Financial Base Proceeded to Develop Properties Towards Production
- Some Companies Were Successful In Selling Out at A Good Time – Fortunes were Made... and Lost

NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E

 **Uranerz**
ENERGY CORPORATION

Those That Remained in the US.....

- Companies Already in ISR Production or with Properties on Standby Made Plans to Either Expand Production or Resume Production
- New Companies with Attractive Uranium Properties Moved Forward with Development Plans
- These Plans Included Preparing and Submitting Environmental License Application on Their Better Projects
- In the US it Typically Takes 15 to 18 Months to Gather the Data and Prepare the License Applications

NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E

 **Uranerz**
ENERGY CORPORATION

Licensing Process for ISR Projects in the US

- Agreement State – Only State License Needed
 - Texas, Colorado
- Non-Agreement State – Both Federal & State Licenses Required
 - Nebraska, New Mexico, Wyoming
 - Federal Agency – US Nuclear Regulatory Commission (NRC)
 - Duel Jurisdiction / GEIS

Status of Existing ISR Projects

Source: US Energy Information Administration (EIA)

- Crow Butte (Cameco) – Nebraska Producing
- Alta Mesa (Mestena) – Texas Producing
- Hobson (S. Texas Mining Venture) – Texas Standby
- Kingsville Dome (URI) – Texas Standby
- Rosita (URI) – Texas Standby
- Vasquez (URI) – Texas Standby
- Smith Ranch-Highland (Cameco) - Wyoming Producing
- Christensen Ranch (Cogema) – Wyoming Standby

Other ISR Project Licensed or Partially Licensed But Not Constructed

- North Butte (Cameco) Wyoming
- Ruth (Cameco) Wyoming
- Gas Hills – Peach (Cameco) Wyoming
- Church Rock (HRI) New Mexico
- Crownpoint New Mexico

New Projects or Expansions with License Applications Under Review

- Crow Butte North Trend (Cameco) – Nebraska (exp.)
- Crow Butte Plant (Cameco) – Nebraska (exp.)
- Dewey-Burdock (Powertech) – South Dakota (new)
- Goliad (Uranium Energy) – Texas (new)
- La Palangana (Uranium One) – Texas (new)
- Nichols Ranch-Hank (Uranerz) – Wyoming (new)
- Moore Ranch (Uranium One) – Wyoming (new)
- Jab-Antelope (Uranium One) – Wyoming (new)
- Lost Creek (Ur Energy) – Wyoming (new)
- Christensen Ranch (Cogema) – Wyoming (restart)

NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E

 **Uranerz**
ENERGY CORPORATION

NRC Letters of Intent for Planned New ISR Projects or Expansion of Existing Projects

- Three Crow (Cameco) Crow Butte Exp. Nebraska
- Marsland (Cameco) Crow Butte Exp. Nebraska
- Lost Creek (Ur Energy) Lost Creek Exp. Wyoming
- Lost Soldier (Ur Energy) Lost Creek Exp. Wyoming
- Allemand-Ross (Uranium One) Moore R. Exp. Wyoming
- Ludeman (Uranium One) New Wyoming
- Smith Ranch (Cameco) Plant Expansion Wyoming
- Reno Creek (Strathmore) New Wyoming
- West Alkali Cr. (Wildhorse) New Wyoming
- Sweetwater (Wildhorse) New Wyoming
- Ruby Ranch (Cameco) Smith Ranch Exp. Wyoming

SUMMARY of ISR PROJECTS

- Applications for New ISR Projects 10
or Expansion of Existing Projects
- NRC Letters of Intent for New ISR 11
Projects or Expansion of Existing Projects
(Texas & Colorado Not Included)
- If All present and Planned ISR Projects in Production at
One Time Total US Production ~ 20 to 25 million lbs./yr
(7,700 to 10,000 tU/yr)

US ISR Licensing Issues

- Staffing – Size and Experience (catch-up)
- Duel Jurisdiction – Non-agreement States (MOUs)
- NRC – Distance Between Office and Projects
- GEIS (generic environmental impact statement)
- License Review/Approval Time Now Two Plus Years (not including time to gather data and prepare the application)

COMPARISON

- **North Butte Project (Wyoming) Licensed in 1990 by Uranerz USA, Inc. took the NRC About One Year to Review & Approve the License Application, and It Took Six Months for the State of Wyoming to Do the Same. [EA, NRC Field Office]**

NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E

 **Uranerz**
ENERGY CORPORATION



Uranerz
ENERGY CORPORATION

CLEAN
energy

**Advanced Stage Uranium
Development in Wyoming**





NYSE Amex Exchange
Toronto Stock Exchange

URZ

Frankfurt
Exchange

U9E



Uranerz
ENERGY CORPORATION