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The Supply Elasticity of Uranium

From time to time over the inventories, with the latter balance of this year, we plan to look at concepts that essentially being are important from the standpoint of uranium price another. As has often been PRI/Smith Ranch, both URI, formation. This week, we examine the concept of supply elasticity and what it from production, with the means for uranium supply and the market.

One of the key determinants of future uranium prices is the supply for uranium, we think of elasticity of uranium, or the how much production can extent to which uranium supplies can respond to an price. Recently, there have Churchrock project in New increase in uranium prices over a specified period of time. As an example of its significance, in its recent study on the economic future of nuclear power, the some recent examples of University of Chicago noted possible expansions that that the supply elasticity of have been disclosed of late: produced in an earlier uranium is estimated to be

between 2.3 and 3.3 and based on this concluded that this "should be sufficiently large to keep uranium prices down in the range of \$15 per pound over the next several years."

Basically, this estimate means that uranium production will increase two Kazakhstan, where there is Of course, for the planned to three times as much as the price increases (the concept of supply elasticity even before they get into is discussed further on page 2). Of course, supply has not responded in this fashion recently, and as a

three components inventories of one form or pointed out, only about half Inc. and Cotter are of uranium supply comes other half from inventories. production essentially

Signs of a production response -- Typically, when new ISL venture at respond to changes in been some encouraging signs that production from existing or planned mines is Production expansion responding or will respond to higher prices. Here are

	Current	Planned
Mine*	(million pounds	
	U3O8)	
McArthur River	18	22
Highland/Smith	1.8	4.0
Inkai	2.6	5.0
Kazatomprom	8.0	15
* According to company estimates;		
the time frame of any expansion		
varies.		

Note that much of this additional production is in talk of expanding the Inkai and Muyunkum projects production. (Additional Kazakh production is most likely subject to further "outside" investment,

Production expansion will also take place in the United States. In addition to the potential expansion at embarking on new production, with Cotter coming from existing mines while URI is producing at a we think of supply elasticity Vasquez. In addition, URI is looking to resurrect the Kingsville Dome ISL project in Texas and bring on the Mexico.

> issues -- There are a number of cases where producers are trying to resurrect projects that period. However, as pointed out by Thomas Neff at his recent paper at the WNA symposium in London, the inventory of such projects is now much less than it was in the 1970s when production responded rather robustly to the increase in price during that period.

expansion of existing production centers to come to fruition depends on producers receiving the requisite amount of investment support and getting the proper

consequence the uranium however, as discussed price is now much higher than \$15, on both a spot and long-term basis. Given the WNA symposium in that this is the case, we can London). Canada also ask why hasn't supply responded more than it has expansion, especially to the producers, and these and what is the true nature extent that output from of uranium supply elasticity. McArthur River can be

It is instructive to think of in terms of the different components of uranium supply instead of one measure for total uranium supply. Uranium supply today consists of production, HEU products, enriched tails, and commercial

recently by Dr. Moukhtar Dzhakishev in a paper at represents potential ramped up. Of course,

supply elasticity for uranium more production in Canada, where a decision to extend although some of this just replaces or extends existing of years or expand production.

regulatory approvals. In addition, in measuring the supply elasticity for most projects, it is necessary to look at prices expressed in the home currencies of currencies have not appreciated as much as the U.S. dollar. The prime

Cigar Lake represents even example of this is Rössing, production beyond a couple production has been put off for some period despite the rapid dollar increase in the price.

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