

Doing the Numbers on European Natural Gas Security

Written by Kevin Rosner
Tuesday, 08 April 2014 00:00

With Russia on the march again, Europe is naturally concerned with the low probability-high impact potential of a Russian inspired cut-off of its natural gas deliveries, particularly at this point in time with the crises in the Crimea and Ukraine which serves as Europe's most pivotal and important gas transit country for Russian Federation gas. There are of course multitudes of other disruptive gas scenarios that could impact still sluggish European economies and hold them back from a more robust economic recovery.

On the other hand, European gas inspired fear on a collective basis may be a bit over-blown for a number of reasons. First, with natural gas markets becoming increasingly liquid due to the decrease in US natural gas imports, thanks to its own efforts in spawning a domestic shale gas revolution which in turn frees up LNG which can be redirected to other markets where it is needed, the global market for gas is changing. The winter in Europe was a mild one and gas supplies are robust due in part to slow growth, competition from coal, and the shuttering of gas fired power plants as a result. All of this however speaks only to one side of the supply equation and doesn't address the role of Russian gas in European markets.

Transport is different

Gas transportation is a different matter. The fact is that the vast majority of natural gas is transported through pipelines rather than by LNG vessels. Over 50% of European gas imports alone come through Ukraine. Secondly, while there is pronounced dependence on Russian supply across the Baltics, Slovakia and (again) particularly Ukraine, overall EU dependency on Russian imports runs at about 30% which while high is still lower than what the prevailing public perception may suggest. Yet multiple scenarios remain, that if played out could, and will cause havoc in European gas markets if nothing more is done to improve Europe's gas dilemma. This is precisely what researchers have been studying with an eye towards mitigating the downstream effects of supply disruptions through cost effective mechanisms particularly in the gas transport sector.

Overview of Europe's Natural Gas Network

Doing the Numbers on European Natural Gas Security

Written by Kevin Rosner
Tuesday, 08 April 2014 00:00

