IENE "2nd South East Europe Energy Dialogue"
International Conference
Thessaloniki 21st May 2008

# Planned gas import pipelines for South East Europe

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# Planned pipelines

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| Project | From | To | Via |
|---|---|---|---|
| ITGI | Turkey | Italy | Greece |
| | 8 bcm/yr | Edison, Depa | |
| | 2012 | | |
| Nabucco | Turkey | Austria | Bulgaria, Romania, Hungary |
| | 31 bcm/yr | Botas, Bulgargaz, MOL, OMV, RWE, Transgaz | |
| | 2013 | | |
| South Stream | Russia | Austria/Italy | Black Sea, Bulgaria, Serbia, Hungary |
| | | Italy | Black Sea, Bulgaria, Greece |
| | 30 bcm/yr | Gazprom, ENI | |
| | 2013 | | |
| TAP | Greece | Italy | Albania |
| | 10 bcm/yr (? +5 bcm/yr for IAP) | | EGL, StatoilHydro |
| | 2010 | | |
| White Stream | Georgia | Europe | Black Sea, Ukraine |
| | 8 bcm/yr + 8 bcm/yr + 16 bcm/yr | | |
| | 2015 | | PSE |

# A network of pipes

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# Sources of supply

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| | |
|---|---|
| ITGI | Azerbaijan (8 bcm/yr) |
| Nabucco | Phase 1: Azerbaijan (8 bcm/yr)<br>Phase 2: ? Azerbaijan, Central Asia, Egypt, Iraq, Iran |
| South Stream | Russia, ? Central Asia |
| TAP | Iran (5.5 bcm/yr), Azerbaijan |
| White Stream | Phase 1: Azerbaijan (8 bcm/yr)<br>Phases 2 & 3: ? |

# Supply challenges



| | |
|---|---|
| Azerbaijan | Widely differing views of future gas availability. |
| Iran | Reliability, sanctions, internal politics & gas needs. |
| Iraq | Security, priorities. |
| Central Asia | Is there enough gas to do everything? |
| Egypt | Potential for ~10 bcm/yr |

# Producers views

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Almost any route to market is better than no route.

Producers will say ‘yes’ to everyone, until they have to commit.

Gas is only a small part of the geopolitical environment in which the Central Asian countries must operate.

Trans-Caspian gas pipes may not be politically possible, CNG ships maybe, but at what cost?

# Consumers views

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**European consumers are facing big increases in their need for imported gas.**

**The EU wants to diversify gas import sources and routes.**

**Diversification is strongly supported by East and Central European countries, who are almost entirely dependent on Russia.**

**Non-Russian routes are supported not because the EU is ‘anti-Russia’, but because it is ‘pro-diversification’.**

**How much does EU support really mean?**

# Transport challenges



How to get Central Asian gas to Turkey/Caucasus.

Trans-Caspian gas pipes may not be politically possible, CNG ships might be, but at what cost?

While demand forecasts suggest there should be little competition for markets, three routes will compete for existing Turkish infrastructure and three for Azerbaijani gas (at least in early phases).

Nabucco needs 20 bcm/yr for profitability, White Stream is claimed to be profitable at 8 bcm/yr.

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