Good evening ladies and gentlemen.

It is truly an honor to have the opportunity to address the Governor’s Conference on Energy. And I applaud Governor McDonnell for the initiative to host this event in the Energy Capital of the East Coast.

What an interesting time to be in the energy business! Our industry faces a variety of opportunity and challenges. Not the least is navigating political waters here in Richmond, in Washington, and in every state capital domestically and every nation’s capital globally.

Energy is increasingly an international business. The United States Energy Association is the U.S. representative to the World Energy Council, which is an international organization headquartered in London. Hence, we very much have an international perspective, which is what I have been asked to speak to.

The single most important energy issue is happening right here in the form of our increasing domestic production of oil and natural gas.
America’s energy producers are reshaping global trends from Venezuela, to Moscow, to Riyadh, to Nigeria. For the first time, we are seriously discussing the prospect of an energy independent North America – maybe make that North America and Brazil.

If I told you just five years ago that the combination of increased U.S. production and energy efficiency could create a situation where we would not need to be dependent on decisions in dangerous countries from people who really do not like us, you would not have believed me.

But this fantastic possibility is truly in front of us, if we are smart enough to make the right decision right now. One only needs to look at how chaotic the middle-east is today. How can we allow our economy and our future to be hostage to the Organization of Petroleum Exporting Countries?

Do we need proof, other than recent events, to ask ourselves why we remain dependent on Mideast oil?
And one last word on the Mideast. Keep in mind – not only do they not like us, they don’t like each other!

- Iran tries to assassinate the Saudi Ambassador in Washington
- Qatar finances the rebels in Libya to over-throw Kaddafi
- And over three decades of peace between Egypt and Israel seems in jeopardy. This is not going to be a happy next few years in the Mideast.

Our domestic production is causing turmoil in Russia. Not only will we not be importing sizable volumes of natural gas in the form of LNG, our potential to export gas can shake up the global gas markets. And exports of U.S. technology and management now can be game changers in places like Poland and China in the same way shale gas is a game changer here.
Some who oppose exports think that exporting natural gas will drive domestic prices up and maybe so. But, we don’t prohibit exports of fertilizer. If we did, maybe our farmers would pay less for the fertilizer they need. And we have hungry people here in the United States, but we would never consider banning exports of agricultural products. Instead, we feed the world. And guess what happens when you export food? Farmers grow more food! No doubt exists that we have higher agricultural production because we export food.

Japan is practically begging to be able to buy natural gas from the United States. Is it not in our nation’s interest to have a stronger economy in Japan? And how about Europe? Cheap energy from the United States could go a long way toward solving some economic, diplomatic, security and environment problems in numerous countries.

And when I speak of exports, I mean all of the above – natural gas, petroleum products, coal, technology and energy services. And energy efficiency.
In many countries, particularly Europe, climate change is a major issue. Calls continue for a global agreement to reduce greenhouse gas emissions. The United Nations’ Framework Convention on Climate Change – Conference of the Parties will meet next month in Doha, Qatar for the 18th year. Thousands will descend for two weeks of talking, and we are almost certain to be no closer to a global climate agreement.

Certainly, our U.S. Senate is unlikely to take up cap-and-trade again, at least not soon. It is not even a topic of debate in the 2012 Presidential election. They did that once and one outcome was the 2010 mid-term elections. Senator Joe Manchin, then Governor, running for the Senate “shot” the 2,000 page climate change bill for a campaign commercial. I think this helped him with both the coal miners and the hunters in West Virginia. The experience that many senators had from the so-called “dry-run” was terrifying when they came to understand the impacts in their state. And this came at the beginning of the financial meltdown, causing nervousness about the “trade” part of cap-and-trade.
There is a story comparing the carbon emitters with the carbon traders.
The story is this:

At a Catholic school, the students were lined up for the lunch line. At the front of the lunch line was a big bowl of apples. One of the nuns wrote a note saying “God is watching – take just one.” These are the carbon emitters. We are going to regulate carbon emissions, we are going to monitor them, we are going to watch them! Heavens! God is going to watch them!!

Then the students get to the end of the lunch line and there is a big plate of these huge chocolate chip cookies. These are the carbon traders. So, one of the students puts a note by the cookies: “Take all you want. God is busy watching the apples.” This is illustrative of how the Senate was unwilling to put another huge piece of the U.S. economy in the hands of Wall Street on the heels of the financial and housing meltdown.
So don’t expect a cap-and-trade bill anytime soon. Not until political leaders regain faith in financial markets.

But I can tell you one thing to watch out for, and that is China.

China intends to beat us to commercializing carbon capture and storage and then they will sell it to us and the Europeans. China has participated for 10 years in a variety of international forums dealing with CCS. They took notes and offered nothing. They listened to us and the Europeans whine about how hard CCS will be, about public acceptance, siting, permitting and liability. A few years ago, they realized that they don’t have those problems. So they intend to be the first to deploy commercial-size demonstration plants and market their technology here.

Now, they are trying to figure out how they can get carbon credits for the technology they sell to us. When they figure that out, they will rush to the negotiating table to strike a deal. We will be the only outsider,
and the pressure on the United States to sign on to a Chinese-led global treaty will be intense.

Meanwhile, we are trying to deal with the slew of EPA regulations that you heard about earlier. Most likely, reduced U.S. coal consumption will mean higher coal exports, particularly to Asia with no difference in global greenhouse gas emissions. China and Japan and Korea will buy and burn our coal, in many cases, with fewer environmental controls.

Globally, 1½ billion people lack access to energy, that is, no electricity, no motor fuel, no refrigeration for vaccines, no lights for kids to read after dark.

And another 1½ billion have inadequate access – unreliable electric power – maybe electricity for a few hours a day probably from small diesel generators that are very expensive and very unhealthy, in terms of local air pollution. The world in this internet age has a moral responsibility to bring these people out of poverty.
The World Energy Council conducts an annual assessment of energy policies. This policy assessment strives to identify what WEC calls the Energy Trilemma, that is:

- Energy Security
- Social Equity
- Environmental Protection

Balancing these three often competing objectives is a challenge for policy-makers in a world where energy demand will likely grow 40% over the next 20 years.

WEC ranked countries energy policies based on 24 criteria. Examples include indicators such as:

- Import dependency
- Energy Use per GDP
- Affordability of gasoline and electricity
- Emissions
- Political Stability
- Rule of Law
- Macro-Economic Stability

In the 2011 index ranking, the U.S. rated 16, ok, 16 out of 92 member nations. Considering what some of us believe about national energy policy, 16 out of 92 sound ok. At least we are in the top 20%, maybe a “B” grade.

- Canada is #5
- Colombia is #8
- Spain is #10
- Latvia is #15. Yes, 15

So U.S. energy policy is not as highly ranked as Latvia. Ok, so we did not top Switzerland, which is #1, but Latvia?.....
A couple of other interesting details:

Nuclear will grow globally in a post-Fukushima world. Countries recommitting to new nuclear include: China, United Kingdom, Korea, France, Poland, United Arab Emirates, India and those continuing to consider future nuclear commitments include: Canada, Mexico, Brazil and South Africa.

Urbanization is swiftly moving people from rural areas to mega cities, presenting policy-makers with further complications, particularly regarding transportation infrastructure. But this also pressures power grids and these folks move from rural to urban areas they want lights for air conditioning and cell phones. Energy efficiency is one strategy that addresses multiple objectives:

- Energy security
- Social equity
- Environmental improvement
Policymakers highly influence the availability of capital for energy infrastructure investments. Countries with friendly investment structures have little trouble attracting foreign investments where countries that discourage foreign investments have difficulty attracting domestic capital. The balance of relying on market forces versus government regulation is key.

The summation of the policy assessment can point to the circumstances here in the United States. Ever since the first Arab oil embargo in 1973, we have bemoaned the lack of U.S. National Energy Policy. Our failure as a nation is actually very understandable.

As Americans, we cannot decide what a national energy policy should be. In reference to the WEC trilemma – we have not agreed how to balance:

- Energy security
• Social equity
• Environmental protection

Or, as put another way earlier this morning, balancing energy, economy, and the environment.

What is refreshing is that policymakers are more engaged in a conversation about energy policy than ever before. No national election in the past 40 years has focused as much on energy as this election in 2012.

I will make a bold prediction that the Obama-Romney debate tonight will have a strong dose, and probably a strong disagreement over what our energy policies ought to be. The conversation is critical and healthy for the country. We need dialogue before we can reach a consensus. I hope the political discussion in this campaign leads to an agreement as to what our goals for a national energy policy should be. Maybe then we can pass Latvia on the WEC index of energy policy.