

term costs will be difficult—and in many ways undesirable—to address through any prescribed mechanism now; future events and decisions by future generations must ultimately weigh in.

Second, there was substantial support for banking and borrowing as an important means—but likely not the only one—for addressing short-term price and volatility concerns. One idea currently under discussion is the establishment of a quantity-limited “reserve” of carbon permits that could be drawn upon when market conditions warrant. Such a reserve could be created by withholding a small percentage of permits from future-year emissions budgets. Other concepts that merit further exploration, in the view of workshop participants, include symmetrical cost management (that is, combining any price ceiling with a price floor), the use of offset credits as a further means of increasing compliance flexibility while simultaneously promoting investment in low-cost mitigation opportunities in the United States and abroad, and the creation of an independent board to oversee future carbon markets. Workshop participants seemed to agree that such a board could serve several important functions, but they also noted that it would likely take some time for any new entity to build the kind of institutional authority and credibility currently enjoyed by the Federal Reserve.

Finally, a recurrent theme throughout the day was the need for policy credibility and confidence in the long-term integrity of underlying regulatory commitments to support a robust emissions market. Several workshop participants emphasized that policymakers need to be constantly mindful of trading political risk against economic risk in devising cost-management mechanisms that attempt to respond to concerns about the impact of mandatory greenhouse gas limits on the U.S. economy. ■

Pennsylvania Environment Secretary Kathleen McGinty Delivers 5th Annual Landsberg Lecture

In February, RFF hosted a presentation by Kathleen A. McGinty, Secretary of the Pennsylvania Department of Environmental Protection, at the Fifth Annual Hans Landsberg Memorial Lecture. The series honors the memory of Landsberg, a pioneer in energy and mineral economics who was a devoted member of the RFF staff for nearly 40 years.

With the reality of mandatory climate policies being crafted at both the state and federal levels, Kathleen McGinty encouraged the audience to keep in mind the old saying of “all things in moderation” when considering three options that could be counted as part of a comprehensive strategy to reduce greenhouse gas emissions: corn-based ethanol, carbon taxes, and cap-and-trade systems.

McGinty acknowledged that while carbon taxes and cap-and-trade systems to control emissions are both enjoying considerable “enthusiasm and exuberance” for their potential, “everyone now seems to love to hate corn-based ethanol.” She nudged listeners that “maybe, at least for a time, we could dial up our enthusiasm” for the gasoline alternative that she considers to be an “okay start from an environment point of view,” especially when considered along with the need to increase national energy security.

One concern people have about corn-based ethanol is that while it is net-energy positive, it’s not dramatically so, especially as compared to cellulosic ethanol, said McGinty. She noted that many feel that “we can’t afford the ‘whoops’ in terms of ethanol in building all that technology and infrastructure—let’s wait for

cellulosic.” But, according to McGinty, “about 78 percent of the capital plant equipment for a corn-based ethanol plant is exactly what you would use for a cellulosic ethanol plant. So to me, it’s not a dead end.”

Nor is a carbon tax a dead end or the sole answer for McGinty, which she believes to be an elegant solution to the “perfect storm of the Katrinas, the Iraqs, and the \$3 per gallon gasoline. To me, there is an essential role for a carbon tax to send a price signal.” She also discussed the inherent difficulty in overcoming the fact that a carbon tax alone, in order to make significant reductions in carbon emissions, would have to be set at what she considers to be an unsustainably high level.

The third part of the equation for McGinty is a cap-and-trade system, again emphasizing its role as an “absolutely essential, fundamental building block of an overall climate policy,” but acknowledging that it cannot bear the heavy weight of reducing overall emissions alone. “The job is bigger when we see what is unfolding around the world. We might not have the 2°C head room we thought we had. We might not have the 450 ppm head room we thought we had, and we might not have the 2050 head room we thought we had.”

There is no panacea or quick answer to the complex issues surrounding climate change, McGinty said. Policymakers will need to carefully craft a blend of policies in order to address the global changes that will be the result of a warming planet. ■

Full coverage of Secretary McGinty’s lecture can be found at ► www.rff.org/McGinty.cfm