

Morlock, Bryan

From: George Evans [gwe@slater-consulting.com]
Sent: Monday, November 15, 2010 2:59 PM
To: Morlock, Bryan
Cc: Jon.Thurber@state.sd.us
Subject: RE: Dispatch Issues

Bryan:

I think we're on the same wave-length. My concern is that wind energy is very non-firm (now people are calling it intermittent). Utilities that I've dealt with before state that they do not let expected wind have any impact on unit commitment, that is, they run the same fossil units with or without the wind. The concern is that operating reserves could be impacted, if the wind suddenly disappears. So even peakers are committed as if the wind energy was not coming.

George

From: BMorlock@otpc.com [mailto:BMorlock@otpc.com]
Sent: Monday, November 15, 2010 3:46 PM
To: gwe@slater-consulting.com
Cc: Jon.Thurber@state.sd.us
Subject: RE: Dispatch Issues

George,

I presume that you are going by the language on page 6-40 and 6-41? Is that correct? In the context of IRP-Manager it simply means that the interchange MW curve is subtracted from the load curve prior to economic dispatch of facilities. Wind generation will absolutely change economic dispatch, and may impact unit commitment. However, the only OTP units that would be affected from a unit commitment perspective are the peaking turbines. All units may be impacted from economic dispatch considerations. This parallels actual operations. We do not curtail energy from a free fuel source if we can back down a dispatchable unit and save on fuel cost.

I don't believe that there is an option to fix unit commitment. I am curious as to what concern you might have in this area? There might be some concern regarding unit commitment if there are large coal units being shutdown and restarted, but that is not the case with the OTP system. All of those type units are identified as must-run in the model. Only peaking units, which are short-term commitment, are impacted which does reflect reality.

Are we talking on the same wavelength here?

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From: George Evans [<mailto:gwe@slater-consulting.com>]
Sent: Monday, November 15, 2010 2:07 PM
To: Morlock, Bryan
Cc: Jon.Thurber@state.sd.us
Subject: Dispatch Issues

Bryan:

It appears that the wind resources are being modeled as "firm", which means the wind energy is used to reduce load. Doesn't this mean that wind will alter the unit commitment?
And if so, is there an option available for which unit commitment will remain the same, with or without the wind?

Thanks!

George

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