

[REDACTED] (RTD)

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**From:** [REDACTED] (RTD)  
**Sent:** lundi 4 décembre 2017 08:37  
**To:** [REDACTED]  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED],

Too bad but these things happen. Keep me posted on any new dates that are possible for you; I'm checking with my people here.

All the best,

[REDACTED]

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**From:** [REDACTED]@hq.doe.gov]  
**Sent:** Friday, December 01, 2017 6:48 PM  
**To:** [REDACTED] (RTD)  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED],

Unfortunately, [REDACTED] has been called upon to travel with Secretary Perry on his visit to the Middle East next week. We will need to reschedule the Technology Working Group meeting for a later date. I will check on dates for the following week.

Sincere apologies!

Best wishes,

[REDACTED]

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**From:** [REDACTED]@ec.europa.eu [mailto:[REDACTED]@ec.europa.eu]  
**Sent:** Thursday, November 30, 2017 11:08 AM  
**To:** [REDACTED]@hq.doe.gov>  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED],

Thank you – this is helpful. It looks like we'll have something to discuss on wind after all.

With regard to the point on storage, my colleagues have asked to clarify the focus and particularly whether you would be interested primarily in (1) mobility, (2) the electrical power system, or (3) the energy system. This would help them decide who should be at the table.

Finally, coming back to the point on nuclear fusion, it would be best to decide one way or another whether to raise ITER. We don't have a strong interest in doing so ourselves; as a matter of fact DG RTD cannot address the issue since the file is no longer with us. We could of course bring in someone from DG ENER but we would need to know that this is important to you (and also, preferably, what you would want to discuss in particular). Otherwise I would suggest to stick to other aspects of nuclear fusion research.

All the best,

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**From:** ■ [mailto:■@hq.doe.gov]  
**Sent:** Monday, November 27, 2017 2:22 PM  
**To:** ■ (RTD)  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi ■,

On the first question, our Office of Science representatives will naturally be prepared to discuss ITER but the presentation and focus will be on DOE's broader Fusion Energy Science program.

The wind angle I think could be interesting as an area of potential cooperation that's been bouncing around for years. My understanding is that there are already some programmatic linkages being carried out under DOE funded work at the National Laboratories (primarily NREL) and Horizon 2020 projects (SENER as lead for a broader European consortium of labs and universities) in the area of wind controllers and wind farm management.

Wind mapping is one particular area where I think there could be synergies similar to the energy-water nexus work. As a summary: DOE is investing in wind sensing and monitoring towards significant reductions in the cost of wind energy through an improved understanding of the complex physics governing electricity generation by wind plants. The goal to ensure future wind plants are sited, built, and operated in a way that produces the most cost-effective, usable electric power. <https://energy.gov/eere/wind/atmosphere-electrons> I think Horizon 2020 is engaged in similar workstreams as part of CL-Windcon Closed Loop Wind Farm Control. More specifically, my understanding is that there are only a limited number of Universities/Companies that provide the sensor equipment necessary for the mapping exercises. DOE ran into this during our Wind Forecasting Improvement Project in Complex Terrain (WFIP2) projects in Washington and Oregon when we would have extended the contracts to get more data for the modeling but the universities/companies were already contracted to similar endeavors in Perdigao, Portugal. Coordinating these types of projects to avoid overlap in equipment availability, sharing data collected and exchanging best practices on modeling activities seems like low-hanging fruit.

Best wishes,

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**From:** ■ [mailto:■@ec.europa.eu]  
**Sent:** Thursday, November 23, 2017 11:03 AM  
**To:** ■ [mailto:■@hq.doe.gov]  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi ■,

Hope you're well. Two quick questions: (1) Did you want to talk about ITER under nuclear fusion? If so, we would have to bring in colleagues from DG ENER which might be difficult on December 7. (2) What exactly did you want to discuss regarding wind? My colleagues weren't sure they had much to bring to the table themselves.

Best wishes,

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**From:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)  
**Sent:** Tuesday, November 07, 2017 10:21 PM  
**To:** [REDACTED] (RTD)  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED],

Good news. [REDACTED] is available to co-chair. I will need to double check with the respective DOE presenters but I think we can tentatively lock in December 7 as the date for the Technology Working Group DVC. I'll reach out to our Digital Video Conferencing folks.

Best wishes,

[REDACTED]

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**From:** [REDACTED] [\[REDACTED\]@ec.europa.eu](mailto:[REDACTED]@ec.europa.eu)  
**Sent:** Tuesday, November 07, 2017 5:55 AM  
**To:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)>  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

How about Thursday, December 7, from 15h00-17h00 Brussels time, 9-11am Washington D.C. time?

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**From:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)  
**Sent:** Monday, November 06, 2017 5:42 PM  
**To:** [REDACTED] (RTD)  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Sure. Early December would work fine.

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**From:** [REDACTED] [\[REDACTED\]@ec.europa.eu](mailto:[REDACTED]@ec.europa.eu)  
**Sent:** Monday, November 06, 2017 10:51 AM  
**To:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)>  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED],

Sorry, I should have spotted that. I'll enquire some more. Would early December be an option as well?

Patrick Child has been acting director for energy research since András Siegler's retirement a few months ago. A new director is being sought; I'll keep you posted.

Best wishes,

[REDACTED]

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**From:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)  
**Sent:** Monday, November 06, 2017 2:48 PM  
**To:** [REDACTED] (RTD)  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED],

That Thursday is Thanksgiving here in the United States so I think we will need to search for another date. Is DDG Child the new co-chair? Previously it had been Dr. Siegler.

Best wishes,

[REDACTED]

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**From:** [REDACTED] [\[REDACTED\]@ec.europa.eu](mailto:[REDACTED]@ec.europa.eu)  
**Sent:** Monday, November 06, 2017 5:14 AM  
**To:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)>  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Dear [REDACTED],

I checked on dates and times in November and it seems that as far as DDG Patrick Child is concerned, the only possibility would be on Thursday, November 23, from 15h00-17h00 Brussels time. Apologies that I can't offer more alternatives - would this work on your side?

All the best,

[REDACTED]

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**From:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)  
**Sent:** Wednesday, October 25, 2017 8:47 PM  
**To:** [REDACTED] (RTD)  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED]

Sincere apologies for the delayed response. DOE programs are enthusiastically looking forward to the Technology Working Group meeting.

The agenda items resonated well. The only comment I might have is that the energy-water nexus in grid modeling work seems to be going very well. We might just ask co-chairs to give a nod to the work and a planned workshop in Washington next year. That could allow longer discussions in the other areas where my sense is that there are opportunities to explore (or further advance)

cooperation. Would be great to perhaps swap presentations in advance of the meeting, as applicable.

I also thought of cybersecurity research as an interesting area. DOE's CEDS program is taking some next generation approaches to making energy and ICT systems more automatically responsive and resilient: <https://energy.gov/oe/downloads/cybersecurity-energy-delivery-systems-ceds-fact-sheets>. Not sure if there are parallels within DG RTD but the topic is topical. Maybe a topic for a dedicated separate DVC.

If you suggest a few dates in November I will coordinate with [REDACTED]'s schedule and with the DOE program folks.

Thanks so much as always.

Best wishes,

[REDACTED]

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**From:** [REDACTED] [\[REDACTED\]@ec.europa.eu](mailto:[REDACTED]@ec.europa.eu)  
**Sent:** Thursday, September 07, 2017 9:24 AM  
**To:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)>  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED]

That's fine – keep me posted!

Best,

[REDACTED]

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**From:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)  
**Sent:** Wednesday, September 06, 2017 6:10 PM  
**To:** [REDACTED] (RTD)  
**Subject:** RE: Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED],

I'm still working the respective agenda topic proposals through DOE programs. Hope to get back with you soonest.

Best wishes,

[REDACTED]

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**From** [REDACTED] [\[REDACTED\]@ec.europa.eu](mailto:[REDACTED]@ec.europa.eu)  
**Sent:** Tuesday, September 05, 2017 4:37 AM  
**To:** [REDACTED] [\[REDACTED\]@hq.doe.gov](mailto:[REDACTED]@hq.doe.gov)>

**Subject:** Next EU-US Energy Technology Working Group - suggestions for agenda items

Hi [REDACTED],

Hope you had/are still having a good summer. I received various suggestions for what to put on the agenda at the next Energy Technology WG meeting and wanted to run them by you. Here are all of them:

- Energy and Water nexus (suggested by RTD, DoE)
- Mission Innovation: state of play, latest developments regarding the Innovation Challenges and public-private sector collaboration, the road to MI-3 (suggested by RTD; DoE?)
- Energy Union/Accelerating Clean Energy Innovation Communication: state of implementation (suggested by RTD)
- U.S. QER 2<sup>nd</sup> instalment released in Jan 2017: state of implementation (would this interest the DoE?)
- Interoperability of smart grids and electric vehicles (suggested by JRC)
- Energy storage (suggested by JRC)
- Nuclear fusion, latest developments as per the discussions in the fusion committee (suggested by RTD. G.5
- Wind, renewables in general (a possibility, if the earlier discussions led to anything concrete – I'm checking on my side)

What do you think? If we wanted to stick to our decision not to run through all the different aspects of our cooperation anymore but to concentrate on a few major issues, then perhaps the first two or the first four points would be enough (provided of course that there is nothing truly major to report under the other items). Otherwise, we could enlarge the agenda to include the remaining points as well. Let me know what you think.

As always, we're open to adjusting the agenda to any new developments on your side.

All the best,

[REDACTED]

[REDACTED] **PhD**  
Policy Officer [REDACTED]



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