# STATE OF CONNECTICUT



#### CONNECTICUT SITING COUNCIL

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Hearing Program
Petition No. 1352
Thursday, January 24, 2019
1:00 p.m.
Hearing Room One, 10 Franklin Square
New Britain, CT 06051

- I. Opening by Council
  - A. Statement read by Chair.
  - B. Comments by Public Officials
  - C. Motions
  - D. Administrative Notice taken by Council

#### **FEDERAL**

- 1. NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES, NATIONAL INSTITUTES OF HEALTH, EMF, Electric and Magnetic Fields Associated with the Use of Electric Power, June 2002, available at <a href="http://www.niehs.nih.gov/health/materials/electric">http://www.niehs.nih.gov/health/materials/electric</a> and magnetic fields associated with the use of electric power questions and answers english 508.pdf
- 2. NATIONAL RESEARCH COUNCIL, Research on Power-Frequency Fields Completed Under the Energy Policy Act of 1992, National Academy of Sciences, 1999, available at <a href="http://books.nap.edu/openbook.php?isbn=0309065437">http://books.nap.edu/openbook.php?isbn=0309065437</a>
- 3. UNITED STATES DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION ADMINISTRATION, Obstruction Marking and Lighting, Advisory Circular AC 70/7460-1L, December 4, 2015, as amended, available at <a href="https://www.faa.gov/documentLibrary/media/Advisory-Circular/AC-70-7460-1L">https://www.faa.gov/documentLibrary/media/Advisory-Circular/AC-70-7460-1L</a>.pdf
- 4. Presidential Proclamation No. 8460, Critical Infrastructure Month, 74 Fed. Reg. 234, December 8, 2009, available at <a href="http://www.presidency.ucsb.edu/ws/index.php?pid=86954">http://www.presidency.ucsb.edu/ws/index.php?pid=86954</a>
- 5. Presidential Executive Order No. 13636, Improving Critical Infrastructure Cybersecurity, 78 Fed. Reg. 11739, February 19, 2013, available at <a href="http://www.archives.gov/federal-register/executive-orders/2013.html">http://www.archives.gov/federal-register/executive-orders/2013.html</a>
- 6. UNITED STATES DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, National Register of Historic Places, July 2010, available at <a href="https://www.nps.gov/subjects/nationalregister/index.htm">https://www.nps.gov/subjects/nationalregister/index.htm</a>



- 7. UNITED STATES DEPARTMENT OF ENERGY, FEDERAL ENERGY REGULATORY COMMISSION AND THE NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION, Report on Transmission Facility Outages During the Northeast Snowstorm of October 29-30, 2011 Causes and Recommendations, available at <a href="http://ferc.gov/legal/staff-reports/05-31-2012-ne-outage-report.pdf">http://ferc.gov/legal/staff-reports/05-31-2012-ne-outage-report.pdf</a>
- 8. UNITED STATES QUADRENNIAL ENERGY REVIEW TASK FORCE, Quadrennial Energy Review: Energy Transmission, Storage, and Distribution Infrastructure, April 2015, available at <a href="https://www.energy.gov/policy/downloads/quadrennial-energy-review-first-installment">https://www.energy.gov/policy/downloads/quadrennial-energy-review-first-installment</a>
- 9. UNITED STATES QUADRENNIAL ENERGY REVIEW TASK FORCE, Quadrennial Energy Review Second Installment: Transforming the Nation's Electricity System, January 2017, available at <a href="https://www.energy.gov/policy/downloads/quadrennial-energy-review-second-installment">https://www.energy.gov/policy/downloads/quadrennial-energy-review-second-installment</a>
- 10. UNITED STATES ENERGY INFORMATION ADMINISTRATION, Annual Energy Outlook 2018, February 6, 2018, available at https://www.eia.gov/outlooks/aeo/
- 11. UNITED STATES ENERGY INFORMATION ADMINISTRATION, Levelized Cost and Levelized Avoided Cost of New Generation Resources in Annual Energy Outlook 2018, March 2018, available at <a href="https://www.eia.gov/outlooks/aeo/pdf/electricity\_generation.pdf">https://www.eia.gov/outlooks/aeo/pdf/electricity\_generation.pdf</a>
- 12. UNITED STATES FISH AND WILDLIFE SERVICE, Final 4(d) Rule for the Northern Long-eared Bat, January 14, 2016, available at <a href="https://www.fws.gov/Midwest/endangered/mammals/nleb/pdf/FRnlebFinal4dRule14Jan2016.pdf">https://www.fws.gov/Midwest/endangered/mammals/nleb/pdf/FRnlebFinal4dRule14Jan2016.pdf</a>
- 13. UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, Office of Solid Waste and Emergency Response, Handbook on Siting Renewable Energy Projects While Addressing Environmental Issues, available at <a href="https://www.epa.gov/sites/production/files/2015-04/documents/handbook siting repowering projects.pdf">https://www.epa.gov/sites/production/files/2015-04/documents/handbook siting repowering projects.pdf</a>
- 14. UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND NATIONAL RENEWABLE ENERGY LABORATORY, Best Practices for Siting Solar Photovoltaics on Municipal Solid Waste Landfills, February 2013, available at https://www.epa.gov/sites/production/files/2015-03/documents/best practices siting solar photovoltaic final.pdf
- 15. UNITED STATES DEPARTMENT OF AGRICULTURE, Solar Energy Use in U.S. Agriculture Overview and Policy Issues, April 2011, available at <a href="https://www.usda.gov/oce/reports/energy/Web\_SolarEnergy\_combined.pdf">https://www.usda.gov/oce/reports/energy/Web\_SolarEnergy\_combined.pdf</a>
- UNITED STATES DEPARTMENT OF AGRICULTURE, Soil Survey Manual, Handbook No. 18, March 2017, available at <a href="https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/soils/ref/?cid=nrcs142p2">https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/soils/ref/?cid=nrcs142p2</a> 054262
- 17. UNITED STATES FEDERAL AVIATION ADMINISTRATION, Evaluation of Glare as a Hazard for General Aviation Pilots on Final Approach, July 2015 available at <a href="https://www.faa.gov/data-research/research/med-humanfacs/oamtechreports/2010s/media/201512.pdf">https://www.faa.gov/data-research/research/med-humanfacs/oamtechreports/2010s/media/201512.pdf</a>

- 18. UNITED STATES FEDERAL AVIATION ADMINISTRATION, Technical Guidance for Evaluating Selected Solar Technologies on Airports, November 2010, available at <a href="https://www.faa.gov/airports/environmental/policy-guidance/media/airport-solar-guide-print.pdf">https://www.faa.gov/airports/environmental/policy-guidance/media/airport-solar-guide-print.pdf</a>
- 19. UNITED STATES FEDERAL AVIATION ADMINISTRATION, Interim Policy, FAA Review of Solar Energy System Projects on Federally Obligated Airports (inclusive of Solar Glare Hazard Analysis Tool), October 23, 2013, available at <a href="https://www.federalregister.gov/documents/2013/10/23/2013-24729/interim-policy-faa-review-of-solar-energy-system-projects-on-federally-obligated-airports">https://www.federalregister.gov/documents/2013/10/23/2013-24729/interim-policy-faa-review-of-solar-energy-system-projects-on-federally-obligated-airports</a>
- 20. NATIONAL RENEWABLE ENERGY LABORATORY, NREL CONDUIT BLOG, Research and Analysis Demonstrate the Lack of Impacts of Glare from Photovoltaic Modules, July 31, 2018, available at <a href="https://www.nrel.gov/state-local-tribal/blog/posts/research-and-analysis-demonstrate-the-lack-of-impacts-of-glare-from-photovoltaic-modules.html">https://www.nrel.gov/state-local-tribal/blog/posts/research-and-analysis-demonstrate-the-lack-of-impacts-of-glare-from-photovoltaic-modules.html</a>
- 21. UNITED STATES DEPARTMENT OF ENERGY, Solar PV and Glare Factsheet, June 2014, available at <a href="https://www.energy.gov/eere/solar/downloads/solar-pv-and-glare-factsheet">https://www.energy.gov/eere/solar/downloads/solar-pv-and-glare-factsheet</a>
- 22. Allco Fin. Ltd. v. Klee, 2014 U.S. Dist. LEXIS 170674 (D. Conn. 2014), affirmed by Allco Fin. Ltd. v. Klee, 805 F.3d 89 (2<sup>nd</sup> Cir. 2015)

### **REGIONAL**

- 23. ISO-NEW ENGLAND, INC., Operational Fuel-Security Analysis, January 17, 2018, available at <a href="https://www.iso-ne.com/static-assets/documents/2018/01/20180117">https://www.iso-ne.com/static-assets/documents/2018/01/20180117</a> operational fuel-security analysis.pdf
- 24. ISO-NEW ENGLAND, INC., New England's Wholesale Electricity Prices in 2017 Were the Second-Lowest Since 2003, March 6, 2018, available at <a href="https://www.iso-ne.com/static-assets/documents/2018/03/20180306">https://www.iso-ne.com/static-assets/documents/2018/03/20180306</a> pr 2017prices.pdf
- ISO-NEW ENGLAND, INC., Finalized Results Confirm 12th Capacity Auction Procured Sufficient Resources for 2021-2022, February 28, 2018, available at <a href="https://www.iso-ne.com/static-assets/documents/2018/02/20180228">https://www.iso-ne.com/static-assets/documents/2018/02/20180228</a> pr fca12 final results.pdf
- 26. ISO-NEW ENGLAND, INC., 2015 Regional System Plan, November 5, 2015, <a href="http://www.iso-ne.com/system-planning/system-plans-studies/rsp">http://www.iso-ne.com/system-planning/system-plans-studies/rsp</a>
- 27. ISO-NEW ENGLAND, INC., 2017 Regional System Plan, November 2, 2017, http://www.iso-ne.com/system-planning/system-plans-studies/rsp
- 28. ISO-NEW ENGLAND, INC., 2018 Regional System Plan Project List, October 2018, available at <a href="http://www.iso-ne.com/system-planning/system-plans-studies/rsp">http://www.iso-ne.com/system-planning/system-plans-studies/rsp</a>
- 29. ISO-NEW ENGLAND, INC., 2017-2026 Forecast Report of Capacity, Energy, Loads & Transmission (CELT), May 1, 2017, available at <a href="https://www.iso-ne.com/system-planning/system-plans-studies/celt">https://www.iso-ne.com/system-planning/system-plans-studies/celt</a>

- 30. ISO-NEW ENGLAND, INC., 2018-2027 Forecast Report of Capacity, Energy, Loads & Transmission (CELT), May 1, 2018 (revised May 9, 2018), available at <a href="https://www.iso-ne.com/system-planning/system-plans-studies/celt">https://www.iso-ne.com/system-planning/system-plans-studies/celt</a>
- 31. ISO-NEW ENGLAND, INC., 2017 Regional Electricity Outlook, January 2017, available at <a href="https://www.iso-ne.com/about/regional-electricity-outlook/">https://www.iso-ne.com/about/regional-electricity-outlook/</a>
- 32. ISO-NEW ENGLAND, INC., 2018 Regional Electricity Outlook, January 2018, available at <a href="https://www.iso-ne.com/about/regional-electricity-outlook/">https://www.iso-ne.com/about/regional-electricity-outlook/</a>
- 33. ISO-NEW ENGLAND, INC., ISO New England Installed Capacity Requirement, Local Sourcing Requirements and Capacity Requirement Values for the System-Wide Capacity Demand Curve for the 2019/20 Capacity Commitment Period, January 2016, available at <a href="https://www.iso-ne.com/static-assets/documents/2016/01/icr-values-2019-2020-report-final.pdf">https://www.iso-ne.com/static-assets/documents/2016/01/icr-values-2019-2020-report-final.pdf</a>
- 34. ISO-NEW ENGLAND, INC., The Challenge of Ensuring System Reliability Through Wholesale Markets as the Resource Mix Evolves, November 17, 2016, available at <a href="http://www.necbc.org/content/pages/Gordon-van-Welie ISO-NE NECBC 11 17 2016 final.pptx.pdf">http://www.necbc.org/content/pages/Gordon-van-Welie ISO-NE NECBC 11 17 2016 final.pptx.pdf</a>
- 35. ISO-NEW ENGLAND, INC., ISO New England's Internal Market Monitor 2015 Annual Markets Report, May 25, 2016, available at https://www.iso-ne.com/static-assets/documents/2016/05/2015 imm\_amr\_final\_5\_25\_2016.pdf
- 36. ISO-NEW ENGLAND, INC., ISO New England's Internal Market Monitor 2017 Annual Markets Report, May 17, 2018, available at <a href="https://www.iso-ne.com/static-assets/documents/2018/05/2017-annual-markets-report.pdf">https://www.iso-ne.com/static-assets/documents/2018/05/2017-annual-markets-report.pdf</a>
- 37. ISO-NEW ENGLAND, INC., State of the Grid: 2017, Presentation by Gordon van Welie, January 30, 2017, available at <a href="https://www.iso-ne.com/static-assets/documents/2017/01/20170130">https://www.iso-ne.com/static-assets/documents/2017/01/20170130</a> stateofgrid2017 presentation pr.pdf
- 38. ISO-NEW ENGLAND, INC., State of the Grid: 2018, Presentation by Gordon van Welie, February 27, 2018, available at <a href="https://www.iso-ne.com/static-assets/documents/2018/02/02272018">https://www.iso-ne.com/static-assets/documents/2018/02/02272018</a> pr presentation state-of-the-grid 2018.pdf
- 39. ISO-NEW ENGLAND, INC., Final 2017 PV Forecast, May 1, 2017, available at https://www.iso-ne.com/static-assets/documents/2017/05/2017 solar forecast details final.pdf
- 40. ISO-NEW ENGLAND, INC., Final 2018 PV Forecast, May 1, 2018, available at https://www.iso-ne.com/static-assets/documents/2018/04/final-2018-pv-forecast.pdf
- 41. ISO-NEW ENGLAND, INC., Interconnection Request Queue, available at https://www.iso-ne.com/system-planning/transmission-planning/interconnection-request-queue
- 42. ISO-NEW ENGLAND, INC., Press Release Auction Acquires Power System Resources Needed for 2020-2021 at a Lower Price, February 9, 2017, available at <a href="https://www.iso-ne.com/static-assets/documents/2017/02/20170209">https://www.iso-ne.com/static-assets/documents/2017/02/20170209</a> FCA11 initial pr.pdf

- 43. ISO-NEW ENGLAND, INC., FCA Results Filing in FERC Docket No. ER17-1073-000, February 28, 2017, available at <a href="https://www.iso-ne.com/static-assets/documents/2017/02/fca">https://www.iso-ne.com/static-assets/documents/2017/02/fca</a> 11 results.pdf
- 44. ISO-NEW ENGLAND, INC., Finalized Results Confirm 12th Capacity Auction Procured Sufficient Resources for 2021-2022, February 28, 2018, available at <a href="https://www.iso-ne.com/static-assets/documents/2018/02/20180228">https://www.iso-ne.com/static-assets/documents/2018/02/20180228</a> pr fca12 final results.pdf
- 45. ISO-NEW ENGLAND, INC., FCA Results Filing in FERC Docket No. ER18-940-000, February 28, 2018, available at https://www.iso-ne.com/static-assets/documents/2018/02/fca 12 results filing.pdf

#### **STATE**

# Connecticut Siting Council

- 46. CONNECTICUT SITING COUNCIL, Electric and Magnetic Field Best Management Practices for the Construction of Electric Transmission Lines in Connecticut, December 14, 2007, revised February 20, 2014, available at <a href="https://www.ct.gov/csc/lib/csc/emf">https://www.ct.gov/csc/lib/csc/emf</a> bmp/revisions updates/754bmpfinal.pdf
- 47. CONNECTICUT SITING COUNCIL, 2014/2015 Forecast of Electric Loads and Resources, December 10, 2015, available at <a href="http://www.ct.gov/csc/lib/csc/pendingproceeds/forecast">http://www.ct.gov/csc/lib/csc/pendingproceeds/forecast</a> 2014 2015/f-2015 finalreport.pdf
- 48. CONNECTICUT SITING COUNCIL, 2017/2018 Forecast of Electric Loads and Resources, November 8, 2018, available at <a href="https://www.ct.gov/csc/lib/csc/pendingproceeds/forecast\_2018\_2019/f2018/finalreport/f2-017-18-cscfinalreport.pdf">https://www.ct.gov/csc/lib/csc/pendingproceeds/forecast\_2018\_2019/f2018/finalreport/f2-017-18-cscfinalreport.pdf</a>
- 49. CONNECTICUT SITING COUNCIL, White Paper on the Security of Siting Energy Facilities, October 8, 2009, available at <a href="http://www.ct.gov/csc/lib/csc/docket-346/whiteppr-final.pdf">http://www.ct.gov/csc/lib/csc/docket-346/whiteppr-final.pdf</a>
- 50. CONNECTICUT SITING COUNCIL, Investigation into the Life-cycle Costs of Electric Transmission Lines, November 15, 2012, available at <a href="http://www.ct.gov/csc/lib/csc/lifecycle2011/life-cycle-final-report.pdf">http://www.ct.gov/csc/lib/csc/lifecycle2011/life-cycle-final-report.pdf</a>
- 51. CONNECTICUT SITING COUNCIL, Investigation into the Life-cycle Costs of Electric Transmission Lines, October 11, 2018, available at <a href="https://www.ct.gov/csc/lib/csc/publications/2017-life-cycle-finalrpt.pdf">https://www.ct.gov/csc/lib/csc/publications/2017-life-cycle-finalrpt.pdf</a>
- 52. CONNECTICUT SITING COUNCIL, Written Testimony in Reference to Raised Bill No. 943, An Act Concerning the Installation of Certain Solar Facilities on Productive Farmlands, March 6, 2017, available at <a href="https://www.cga.ct.gov/2017/ENVdata/Tmy/2017SB-00943-R000306-Stein,%20Robin%20,%20Chairman-Connecticut%20Siting%20Council-TMY.PDF">https://www.cga.ct.gov/2017/ENVdata/Tmy/2017SB-00943-R000306-Stein,%20Robin%20,%20Chairman-Connecticut%20Siting%20Council-TMY.PDF</a>
- 53. CONNECTICUT SITING COUNCIL, Written Testimony in Reference to Raised Bill No. 412, An Act Restricting the Use of Incentives for the Development of Solar Arrays on Agricultural Land, February 7, 2017, available at <a href="https://www.cga.ct.gov/2017/ETdata/Tmy/2017SB-00412-R000207-Stein,%20Robin,%20Chairman-Connecticut%20Sitting%20Council-TMY.PDF">https://www.cga.ct.gov/2017/ETdata/Tmy/2017SB-00412-R000207-Stein,%20Robin,%20Chairman-Connecticut%20Sitting%20Council-TMY.PDF</a>

Petition No. 1352 Hearing Program January 24, 2019 Pg. 6

- 54. **PETITION NO. 1312** Candlewood Solar LLC declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed construction, maintenance and operation of a 20 megawatt AC (26.5 megawatt DC) solar photovoltaic electric generating facility located on a 163 acre parcel at 197 Candlewood Mountain Road and associated electrical interconnection to Eversource Energy's Rocky River Substation on Kent Road in New Milford, Connecticut. Record and Final Decision, *available at* <a href="https://www.ct.gov/csc/cwp/view.asp?a=2397&Q=594294&PM=1">https://www.ct.gov/csc/cwp/view.asp?a=2397&Q=594294&PM=1</a>
- 55. **PETITION NO. 1313** DWW Solar II, LLC declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed construction, maintenance and operation of a 26.4 megawatt AC solar photovoltaic electric generating facility on approximately 289 acres comprised of 5 separate and abutting privately-owned parcels located generally west of Hopmeadow Street (US 202/CT 10), north and south of Hoskins Road, and north and east of County Road and associated electrical interconnection to Eversource Energy's North Simsbury Substation west of Hopmeadow Street in Simsbury, Connecticut. Record and Final Decision, *available at* <a href="https://www.ct.gov/csc/cwp/view.asp?a=2397&Q=594352&PM=1">https://www.ct.gov/csc/cwp/view.asp?a=2397&Q=594352&PM=1</a>

## Department of Energy and Environmental Protection

- 56. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, Connecticut Guidelines for Soil Erosion and Sediment Control, DEP Bulletin 34, May 2002, last revised November 2007, available at <a href="http://www.ct.gov/dep/cwp/view.asp?a=2720&q=325660&depNav">http://www.ct.gov/dep/cwp/view.asp?a=2720&q=325660&depNav</a> GID=1654
- 57. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, The Connecticut Stormwater Quality Manual, 2004, and appendices, available at <a href="http://www.ct.gov/DEP/cwp/view.asp?a=2721&q=325704&depNav">http://www.ct.gov/DEP/cwp/view.asp?a=2721&q=325704&depNav</a> GID=1654#download
- 58. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF WATER MANAGEMENT, PLANNING AND STANDARDS DIVISION, Water Quality Standards, (Surface Water Quality Standards and Ground Water Quality Standards Effective October 10, 2013, available at <a href="https://eregulations.ct.gov/eRegsPortal/Browse/RCSA/%7B2328E62B-7982-48A7-AF52-F3F382A821FA%7D">https://eregulations.ct.gov/eRegsPortal/Browse/RCSA/%7B2328E62B-7982-48A7-AF52-F3F382A821FA%7D</a>
- 59. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Connecticut Air Quality Standards, Effective February 8, 2018, Regulations of Connecticut State Agencies §§ 22a-174-24, et seq., available at <a href="https://eregulations.ct.gov/eRegsPortal/Browse/RCSA/%7BD4AF4488-7FAF-4C01-855D-8421C5793BE6%7D">https://eregulations.ct.gov/eRegsPortal/Browse/RCSA/%7BD4AF4488-7FAF-4C01-855D-8421C5793BE6%7D</a>
- 60. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Connecticut Noise Control Regulations, Effective June 15, 1978, Regulations of Connecticut State Agencies §§22a-69-1, et seq., available at <a href="https://eregulations.ct.gov/eRegsPortal/Browse/RCSA/%7BAC772FCD-E1D5-4E99-A871-13C581E951F8%7D">https://eregulations.ct.gov/eRegsPortal/Browse/RCSA/%7BAC772FCD-E1D5-4E99-A871-13C581E951F8%7D</a>

- 61. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF ENERGY AND TECHNOLOGY POLICY, 2013 Comprehensive Energy Strategy for Connecticut, February 19, 2013, available at <a href="http://www.ct.gov/deep/lib/deep/energy/cep/2013">http://www.ct.gov/deep/lib/deep/energy/cep/2013</a> ces final.pdf
- 62. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF ENERGY AND TECHNOLOGY POLICY, 2018 Comprehensive Energy Strategy for Connecticut, February 8, 2018, available at <a href="https://www.ct.gov/deep/lib/deep/energy/ces/2018">https://www.ct.gov/deep/lib/deep/energy/ces/2018</a> comprehensive energy strategy.pdf
- 63. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF ENERGY AND TECHNOLOGY POLICY, 2012 Integrated Resource Plan for Connecticut, June 14, 2012, available at <a href="http://www.dpuc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/cb827b1ffa58b2fd85257a1d0060c374/\$FILE/2012%20Integrated%20Resource%20Plan.pdf">http://www.dpuc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/cb827b1ffa58b2fd85257a1d0060c374/\$FILE/2012%20Integrated%20Resource%20Plan.pdf</a>
- 64. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, 2014 Integrated Resource Plan for Connecticut, March 17, 2015, available at <a href="http://www.dpuc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/8e95d81c37c7237085257e0b004770b2?OpenDocument">http://www.dpuc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/8e95d81c37c7237085257e0b004770b2?OpenDocument</a>
- 65. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF NATURAL RESOURCES, Connecticut's Endangered, Threatened and Special Concern Species 2015, August 2015, available at <a href="http://www.ct.gov/deep/lib/deep/wildlife/pdf">http://www.ct.gov/deep/lib/deep/wildlife/pdf</a> files/nongame/ETS15.pdf
- 66. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF NATURAL RESOURCES, Connecticut's Wildlife Action Plan, 2015 Revision, available at <a href="http://www.ct.gov/deep/cwp/view.asp?a=2723&q=329520&deepNav">http://www.ct.gov/deep/cwp/view.asp?a=2723&q=329520&deepNav</a> GID=1719#Review
- 67. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF ENERGY AND TECHNOLOGY POLICY, 2-20 MW Renewable, Demand Response and Energy Storage Procurement, August 31, 2015, available at <a href="http://www.dpuc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/67b2877d014a6f2a85257eb200467127/\$FILE/Notice%20of%20proceedings%20and%20opportunity%20to%20comment%2008.31.15.pdf">http://www.dpuc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/67b2877d014a6f2a85257eb200467127/\$FILE/Notice%20of%20proceedings%20and%20opportunity%20to%20comment%2008.31.15.pdf</a>

#### Department of Public Health

68. STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC HEALTH, Electric and Magnetic Fields (EMF): Health Concerns Fact Sheet, revised April 2008, available at <a href="https://portal.ct.gov/-/media/Departments-and-departments-and-departments-and-departments-and-departments-and-departments-and-departments-and-departments-and-departments-and-departmental health/eoha/pdf/EMFFactSheet2008pdf.pdf?la=en

#### **Department of Transportation**

69. STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, ConnDOT Drainage Manual, 2000, last revised July 2016, available at <a href="http://www.ct.gov/dot/cwp/view.asp?a=3200&q=260116">http://www.ct.gov/dot/cwp/view.asp?a=3200&q=260116</a>

- 70. STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, Utility Accommodation Manual, February 2009, available at <a href="http://www.ct.gov/dot/lib/dot/documents/dutilities/ACCOMODATION.pdf">http://www.ct.gov/dot/lib/dot/documents/dutilities/ACCOMODATION.pdf</a>
- 71. STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, BUREAU OF ENGINEERING AND HIGHWAY OPERATIONS, Public Service Facility Policy and Procedures for Highways in Connecticut, November 2008, available at <a href="http://www.ct.gov/dot/lib/dot/documents/dutilities/UtilityPolicyProcedures.pdf">http://www.ct.gov/dot/lib/dot/documents/dutilities/UtilityPolicyProcedures.pdf</a>

### Other State Agencies

- 72. STATE OF CONNECTICUT, OFFICE OF POLICY AND MANAGEMENT, Conservation and Development Policies Plan for Connecticut 2013-2018, June 5, 2013, available at <a href="https://www.ct.gov/opm/lib/opm/igp/org/cdupdate/2013-2018">https://www.ct.gov/opm/lib/opm/igp/org/cdupdate/2013-2018</a> final cd plan (rev. june 2017).pdf
- 73. Final Report of the Two Storm Panel, January 9, 2012, available at <a href="http://www.governor.ct.gov/malloy/lib/mallov/two-storm-panel-final report.pdf">http://www.governor.ct.gov/malloy/lib/mallov/two-storm-panel-final report.pdf</a>
- 74. STATE OF CONNECTICUT, CONNECTICUT GREEN BANK, Comprehensive Plan, Fiscal Year 2017 through Fiscal Year 2019, available at <a href="https://www.ctgreenbank.com/wp-content/uploads/2018/08/Comp-Plan FY17-FY19 Final 072718.pdf">https://www.ctgreenbank.com/wp-content/uploads/2018/08/Comp-Plan FY17-FY19 Final 072718.pdf</a>
- 75. STATE OF CONNECTICUT, DEPARTMENT OF EMERGENCY SERVICES AND PUBLIC PROTECTION, DIVISION OF EMERGENCY MANAGEMENT AND HOMELAND SECURITY, State of Connecticut State Response Framework, Version 4.1, September 2014, available at <a href="https://portal.ct.gov/-/media/DEMHS/">https://portal.ct.gov/-/media/DEMHS/</a> docs/SRFV41pdf.pdf
- 76. STATE OF CONNECTICUT, GOVERNOR'S STEERING COMMITTEE ON CLIMATE CHANGE, ADAPTATION SUBCOMMITTEE, Connecticut Climate Change Preparedness Plan, Adaptation Strategies for Agriculture, Infrastructure, Natural Resources and Public Health Climate Change Vulnerabilities, 2011, available at <a href="http://www.ct.gov/deep/lib/deep/climatechange/connecticut climate preparedness plan 2">http://www.ct.gov/deep/lib/deep/climatechange/connecticut climatechange/connecticut climatechange/connecti
- 77. PUBLIC UTILITIES REGULATORY AUTHORITY, Cybersecurity and Connecticut's Public Utilities, April 14, 2014, available at <a href="http://www.ct.gov/pura/lib/pura/electric/cyber-report-041414.pdf">http://www.ct.gov/pura/lib/pura/electric/cyber-report-041414.pdf</a>
- 78. PUBLIC UTILITIES REGULATORY AUTHORITY, Connecticut Public Utilities Cybersecurity Action Plan, April 6, 2016, available at <a href="http://www.ct.gov/pura/lib/pura/electric/cyber\_report\_April\_6\_2016.pdf">http://www.ct.gov/pura/lib/pura/electric/cyber\_report\_April\_6\_2016.pdf</a>
- 79. STATE OF CONNECTICUT, STATE VEGETATION MANAGEMENT TASK FORCE, Final Report Issued to the Connecticut Department of Energy and Environmental Protection, August 28, 2012, available at <a href="http://www.ct.gov/deep/lib/deep/forestry/vmtf/final\_report/symtf\_final\_report.pdf">http://www.ct.gov/deep/lib/deep/forestry/vmtf/final\_report/symtf\_final\_report.pdf</a>
- 80. STATE OF CONNECTICUT, COUNCIL ON ENVIRONMENTAL QUALITY, Energy Sprawl in Connecticut: Why Farmland and Forests are Being Developed for Electricity Production; Recommendations for Better Siting, February 3, 2017, available at <a href="http://www.ct.gov/ceq/lib/ceq/Energy\_Sprawl">http://www.ct.gov/ceq/lib/ceq/Energy\_Sprawl</a> in Connecticut.pdf

- 81. Red Hill Coalition, Inc. v. Town Plan & Zoning Comm., 212 Conn. 727 (1989).
- 82. Paige v. Town Plan & Zoning Comm., 235 Conn. 448 (1995).
- 83. FairwindCT, Inc. v. Connecticut Siting Council, 313 Conn. 669 (2014).
- 84. Corcoran v. Connecticut Siting Council, 284 Conn. 455 (2007).

#### **TECHNICAL**

- 85. NATIONAL FIRE PROTECTION ASSOCIATION 70: National Electrical Code, 2017.
- 86. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, National Electrical Safety Code, American National Standards Institute, Standard C2-2017, October 18, 2016.
- 87. EXPONENT, INC., EMF and Health: Comprehensive Review and Update of the Scientific Research January 15, 2010 through March 1, 2012, July 27, 2012, available at <a href="https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/community/exponent-2010-2012.pdf">https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/community/exponent-2010-2012.pdf</a>
- 88. EXPONENT, INC., Research on Extremely Low Frequency Electric and Magnetic Fields and Health,
  August 1, 2012 August 31, 2016, dated April 11, 2017, available at
  <a href="https://www.ct.gov/csc/lib/csc/pendingproceeds/docket\_474/1\_application/474\_2\_ghccp\_application\_volume2.pdf">https://www.ct.gov/csc/lib/csc/pendingproceeds/docket\_474/1\_application/474\_2\_ghccp\_application\_volume2.pdf</a>

#### **ENVIRONMENTAL**

- 89. RICHARD M. DEGRAAF & DEBORAH D. RUDIS, New England Wildlife: Habitat, Natural History, and Distribution, University of Massachusetts Press, 1983, available at <a href="http://www.treesearch.fs.fed.us/pubs/4148">http://www.treesearch.fs.fed.us/pubs/4148</a>
- 90. ARAM J.K. CALHOUN & MICHAEL W. KLEMENS, Best Development Practices: Conserving Pool-Breeding Amphibians in Residential and Commercial Developments in the Northeastern United States, MCA Technical Paper No. 5, Metropolitan Conservation Alliance 2002, available at <a href="https://www.nae.usace.army.mil/Portals/74/docs/regulatory/VernalPools/BestDevelopment Practices20Oct2014.pdf">https://www.nae.usace.army.mil/Portals/74/docs/regulatory/VernalPools/BestDevelopment Practices20Oct2014.pdf</a>
- 91. LAUREN M. COOK & RICHARD H. MCCUEN, Hydrologic Response of Solar Farms, Journal of Hydrologic Engineering, May 2013, available at <a href="http://ascelibrary.org/doi/abs/10.1061/(ASCE)HE.1943-5584.0000530">http://ascelibrary.org/doi/abs/10.1061/(ASCE)HE.1943-5584.0000530</a>
- 92. CHRISTOPHER BARTON AND KAREN KINKEAD, Do Erosion Control and Snakes Mesh?, Journal of Science and Water Conservation 2005, Volume 60, Number 2, available at <a href="http://www.treesearch.fs.fed.us/pubs/21050">http://www.treesearch.fs.fed.us/pubs/21050</a>

### **MAPS**

93. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Natural Diversity Database Map for the Towns of Enfield and Somers, available at <a href="http://www.depdata.ct.gov/naturalresources/endangeredspecies/nddbpdfs.asp">http://www.depdata.ct.gov/naturalresources/endangeredspecies/nddbpdfs.asp</a>

- 94. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Aquifer Protection Area Map for Town of Enfield, last updated March 23, 2018, available at <a href="http://www.ct.gov/deep/cwp/view.asp?a=2685&q=322248">http://www.ct.gov/deep/cwp/view.asp?a=2685&q=322248</a>
- 95. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Aquifer Protection Area Map for the State of Connecticut, last updated March 23, 2018, available at <a href="http://www.ct.gov/deep/cwp/view.asp?a=2685&q=322248">http://www.ct.gov/deep/cwp/view.asp?a=2685&q=322248</a>
- 96. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Northern long-eared bat areas of concern in Connecticut to assist with Federal Endangered Species Act Compliance, last updated February 1, 2016, available at <a href="http://www.ct.gov/deep/lib/deep/endangered">http://www.ct.gov/deep/lib/deep/endangered</a> species/images/nleb approved2 16.pdf
- 97. UNIVERSITY OF CONNECTICUT, CONNECTICUT ENVIRONMENTAL CONDITIONS ONLINE, Connecticut Critical Habitats and Open Space, last updated November 28, 2012, available at <a href="http://cteco.maps.arcgis.com/home/item.html?id=a1bf59798c5b45a98aeaeb97dafd60b9">http://cteco.maps.arcgis.com/home/item.html?id=a1bf59798c5b45a98aeaeb97dafd60b9</a>
- 98. CONNECTICUT FOREST & PARK ASSOCIATION, CONNECTICUT WALK BOOK 20<sup>TH</sup> ED. 2017, available at http://www.ctwoodlands.org/connecticut-walk-book-20th-edition
- 99. NATIONAL AUDUBON SOCIETY, Connecticut Important Bird Areas, available at <a href="https://www.audubon.org/important-bird-areas/state/connecticut">https://www.audubon.org/important-bird-areas/state/connecticut</a>
- 100.STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, Connecticut Official State Tourism Map.
- 101.MAIL-A-MAP STREET MAP, Enfield/Somers, available at http://mailamap.com/street maps
- 102.UNITED STATES GEOLOGICAL SURVEY, Connecticut Topographic Map Collection, Broad Brook Quadrangle 1984 and Ellington Quadrangle 1984, available at <a href="http://magic.lib.uconn.edu/topographic\_maps.html">http://magic.lib.uconn.edu/topographic\_maps.html</a>
- 103.STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Northern Long-eared Bat Areas of Concern in Connecticut to Assist with Federal Endangered Species Act Compliance, February 1, 2016, available at <a href="http://www.ct.gov/deep/lib/deep/endangered">http://www.ct.gov/deep/lib/deep/endangered</a> species/images/nleb approved 16.pdf

#### E. State Agency comments

- 1. Department of Energy and Environmental Protection Comments, dated November 29, 2018
- 2. Connecticut Airport Authority Comments, dated December 12, 2018

#### F. Public Official Comments

1. Representative Carol Hall, Representative Greg Stokes and Senator John Kissel Request for Hearing, dated November 14, 2018

#### G. Municipal comments

1. Fire Commissioner Richard Tkacz, Hazardville Fire Department Comments, dated November 30, 2018

### II. Appearance by Petitioner

Petitioner:

Nutmeg Solar, LLC

Representatives:

David W. Bogan, Esq. Kathryn E. Boucher, Esq. Locke Lord LLP

A. Administrative Notice.

### **STATE**

## Connecticut General Assembly

- STATE OF CONNECTICUT GENERAL ASSEMBLY, An Act Concerning Energy Independence, Public Act 05-1, available at <a href="https://www.cga.ct.gov/2005/ACT/PA/2005PA-00001-R00HB-07501SS1-PA.htm">https://www.cga.ct.gov/2005/ACT/PA/2005PA-00001-R00HB-07501SS1-PA.htm</a>
- 2. STATE OF CONNECTICUT GENERAL ASSEMBLY, An Act Concerning Connecticut Global Warming Solutions, Public Act 08-98, available at <a href="https://www.cga.ct.gov/2008/ACT/PA/2008PA-00098-R00HB-05600-PA.htm">https://www.cga.ct.gov/2008/ACT/PA/2008PA-00098-R00HB-05600-PA.htm</a>
- 3. STATE OF CONNECTICUT GENERAL ASSEMBLY, An Act Concerning Affordable and Reliable Energy, Public Act 15-107, available at <a href="https://www.cga.ct.gov/2015/ACT/PA/2015PA-00107-R00SB-01078-PA.htm">https://www.cga.ct.gov/2015/ACT/PA/2015PA-00107-R00SB-01078-PA.htm</a>

### Department of Energy and Environmental Protection

4. BUREAU OF ENERGY AND TECHNOLOGY POLICY, Final Determination on Small Scale Procurement, June 27, 2017, <a href="http://www.dpuc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/b7b7160310442fda85258079005c2534/\$FILE/2017.06.27">http://www.dpuc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/b7b7160310442fda85258079005c2534/\$FILE/2017.06.27</a> FINAL%20Small%20Scale %20RFP%20Decision.pdf

# Public Utilities Regulatory Authority (PURA)

- PUBLIC UTILITIES REGULATORY AUTHORITY, Docket 17-01-11, PURA Review of Public Act 15-107(b) Small-Scale Energy Resource Agreements, Final Decision, September 7, 2017, available at <a href="http://www.dpuc.state.ct.us/dockcurr.nsf/8e6fc37a54110e3e852576190052b64d/55e1a6ff05cfe85f85258194004b16bb?OpenDocument">http://www.dpuc.state.ct.us/dockcurr.nsf/8e6fc37a54110e3e852576190052b64d/55e1a6ff05cfe85f85258194004b16bb?OpenDocument</a>
- B. Exhibits for Identification.
  - 1. Petition for a Declaratory Ruling filed by Nutmeg Solar, LLC, received October 19, 2018
  - 2. Petitioner's Responses to Council Interrogatories, Set One, dated December 7, 2018
  - Petitioner's Amended Exhibit F-Specification Sheets for 400 watt Solar Modules, dated December 7, 2018
  - 4. Petitioner's Phase 1B Report Cultural Resources Reconnaissance Survey of Proposed Nutmeg Solar Facility in Enfield, Connecticut, dated December 12, 2018

Petition No. 1352 Hearing Program January 24, 2019 Pg. 12

- Petitioner's Update to Item #4 of Petition Exhibit N-Nutmeg Solar Project Outreach Log, dated December 31, 2018
- 6. Petitioner's Revised Response to Council Interrogatory No.14, dated January 2, 2019
- 7. Petitioner's Revised Response to Council Interrogatory No. 45, dated January 2, 2019
- 8. Petitioner's Responses to Council Interrogatories, Set Two, dated January 3, 2019
- 9. Petitioner's Responses to Council Interrogatories, Set Three, dated January 3, 2019
- 10. Petitioner's Late Filed Exhibit A, dated January 17, 2019
- 11. Petitioner's Late Filed Exhibit's B, C, and D, dated January 17, 2019
- 12. Petitioner's Response to Town of Enfield's Comments, dated January 23, 2019

#### C. Swear Witnesses

- 1. Matthew Singer, NextEra Energy Resources, LLC
- 2. Neil Watlington, NextEra Energy Resources, LLC
- 3. Katelin Nickerson, PWS, CWS, Tetra Tech, Inc.
- 4. Dr. Kevin Ryan, Ph.D., FB Environmental
- 5. Jonathan Gravel, NextEra Energy Resources, LLC
- 6. Charles Asheim, NextEra Energy Resources, LLC
- 7. Briony Angus, AICP, Tighe & Bond
- 8. Brian Huntley, PE, Tighe & Bond
- 9. Mitchell Thiem, NextEra Energy Resources, LLC
- D. Full Exhibits Verification of exhibits by witnesses and admission by the Council.
- E. Cross Examination.
  - 1. Council
  - 2. Town of Enfield

#### III. Appearance by Party:

Town of Enfield

Representative:

Maria S. Elsden, Esq. Town Attorney Town of Enfield

- A. Administrative Notice.
- B. Exhibits for Identification.
  - Town of Enfield Motion for Party Status and Request for Public Hearing, dated November 14, 2018
  - 2. Town of Enfield Pre-Filed Testimony, dated January 16, 2019
- C. Swear Witnesses
- D. Full Exhibits Verification of exhibits by witnesses and admission by the Council.
- E. Cross Examination.

Petition No. 1352 Hearing Program January 24, 2019 Pg. 13

- 1. Council
- 2. Petitioner
- IV. Closing or Continuation by Connecticut Siting Council