



This document is scheduled to be published in the Federal Register on 03/29/2013 and available online at <http://federalregister.gov/a/2013-06820>, and on FDsys.gov

BILLING CODE 6717-01-P

DEPARTMENT OF ENERGY
FEDERAL ENERGY REGULATORY COMMISSION

18 CFR Part 35

[Docket No. RM13-2-000]

Small Generator Interconnection Agreements and Procedures;
Supplemental Notice of Workshop

AGENCY: Federal Energy Regulatory Commission, DOE.

ACTION: Supplemental notice of workshop.

SUMMARY: On February 27, 2013, the Federal Energy Regulatory Commission (Commission) announced that staff will convene a workshop on Wednesday, March 27, 2013 to discuss certain topics related to the proposals in the Small Generator Interconnection Agreements and Procedures Notice of Proposed Rulemaking (Docket No. RM13-2-000).¹ Please note that the time for the conference has been changed.

DATES: The conference will be convened from 9:30 a.m. to approximately 5:00 p.m. (EDT).

ADDRESSES: The staff-led workshop will be held in the Commission Meeting

¹ *Small Generator Interconnection Agreements and Procedures*, 142 FERC ¶ 61,049 (2013), 78 FR 7524 (Feb. 1, 2013).

Room at the Commission's headquarters at 888 First Street, NE, Washington, DC 20426. Members of the Commission may attend the conference, which will also be open for the public to attend. Advance registration is not required, but is encouraged. Attendees may register at the following webpage: <https://www.ferc.gov/whats-new/registration/small-generator-03-27-13-form.asp>.

SUPPLEMENTARY INFORMATION:

Attached to this supplemental notice is an agenda for the workshop. If any changes are made, the revised agenda will be posted prior to the event on the Calendar of Events on the Commission's web site, www.ferc.gov.

This workshop is not intended to address the substance of any particular case pending before the Commission. However, notice is hereby given that discussions at the workshop may concern matters at issue in the following Commission proceedings that are either pending or within their rehearing period: CSOLAR IV South, LLC, Wistaria Ranch Solar, LLC, CSOLAR IV West, LLC & CSOLAR IV North, LLC v. California Independent System Operator Corporation (Docket No. EL13-37-000); NV Energy Operating Co. (Docket No. ER13-679-000); North American Natural Resources, Inc. v. PJM Interconnection, L.L.C., American Electric Power Service Corp., and Indiana Michigan Power Co. (Docket No. EL13-10-000); California Independent System Operator Corporation (Docket No. ER13-218-001); California Independent System Operator Corporation (Docket Nos. ER12-2643-000 and ER12-2643-001); SunPower Corporation (Docket No. ER13-958-000); Review of Small Generator Interconnection

Agreements and Procedures (Docket No. AD12-17-000); and Solar Energy Industries Association (Docket No. RM12-10-000).

We note that the topics included here do not encompass all the proposals in the Notice of Proposed Rulemaking (NOPR). The Commission encourages stakeholders to submit written comments on all the proposals in the NOPR, not just those discussed at the workshop. There will not be a separate comment period for the workshop. The deadline for submitting written comments on the NOPR, including comments on the results of the workshop, is June 3, 2013.

We also note that we plan to leave time for audience questions and comments following each agenda topic.

The workshop will not be transcribed. However, there will be a free webcast of the workshop. Anyone with Internet access interested in viewing this workshop can do so by navigating to the FERC Calendar of Events at www.ferc.gov and locating this event in the Calendar. The event will contain a link to its webcast. The Capitol Connection provides technical support for the webcasts and offers the option of listening to the workshop via phone-bridge for a fee. If you have any questions, visit www.CapitolConnection.org or call (703) 993-3100.

FERC workshops are accessible under section 508 of the Rehabilitation Act of

1973. For accessibility accommodations please send an email to accessibility@ferc.gov or call toll free 1-866-208-3372 (voice) or 202-208-8659 (TTY), or send a fax to 202-208-2106 with the required accommodations.

For information related to the agenda, please contact Leslie Kerr at leslie.kerr@ferc.gov or (202) 502-8540. For information related to logistics, please contact Sarah McKinley at sarah.mckinley@ferc.gov or (202) 502-8368.

Dated: March 19, 2013

Kimberly D. Bose,
Secretary.



Small Generator Interconnection

Agreements and Procedures

RM13-2-000

March 27, 2013

Agenda

9:30 – 9:45 a.m. Welcome and Opening Remarks

Introduction

On January 17, 2013, the Federal Energy Regulatory Commission (Commission) issued a Notice of Proposed Rulemaking (NOPR) proposing to revise the *pro forma* Small Generator Interconnection Procedures (SGIP) and *pro forma* Small Generator Interconnection Agreement (SGIA) originally set forth in Order No. 2006.¹ This

¹ *Standardization of Small Generator Interconnection Agreements and Procedures*, Order No. 2006, FERC Stats. & Regs. ¶ 31,180, *order on reh'g*, Order No. (continued)

workshop is convened to give stakeholders the opportunity to discuss the proposed reforms to the *pro forma* SGIP and the *pro forma* SGIA and other related issues.

9:45 – 11:00 a.m. Roundtable Discussion: Fast Track Process Eligibility

In the NOPR, the Commission proposed to revise the 2 megawatt (MW) threshold for participation in the SGIP Fast Track Process.² The Commission proposed to base Fast Track eligibility on individual system and generator characteristics, up to a limit of 5 MW. These characteristics include interconnection voltage level, the circuit distance of the interconnection from the substation, and generator capacity as the basis for determining whether an interconnection customer is eligible to be evaluated under the Fast Track Process, as shown in the table below.

Line Voltage	Fast Track Eligibility Regardless of Location	Fast Track Eligibility on ≥ 600 Ampere Line and ≤ 2.5 Miles from Substation
< 5 kilovolt (kV)	≤ 1 MW	≤ 2 MW
≥ 5 kV and < 15 kV	≤ 2 MW	≤ 3 MW
≥ 15 kV and < 30 kV	≤ 3 MW	≤ 4 MW
≥ 30 kV	≤ 4 MW	≤ 5 MW

² See *Small Generator Interconnection Agreements and Procedures*, 142 FERC ¶ 61,049, at P 30-32 (2013).

Roundtable participants should be prepared to discuss the following:

- The individual system and generator characteristics included in the Commission's proposal (and the levels at which they are included); and
- Whether the proposal strikes an appropriate balance between allowing more small generating facilities to interconnect under the Fast Track Process and protecting system safety and reliability.

Roundtable Participants

- Aaron Berner, Manager, Interconnection Analysis, PJM Interconnection, L.L.C.
- Michael Coddington, Senior Electrical Engineering Researcher, Distributed Grid Integration, National Renewable Energy Laboratory
- Paul Hutchison, Renewable Energy Analyst, Public Utilities Commission of Ohio
- Eric Laverty, Director of Transmission Access Planning, Midwest Independent Transmission System Operator, Inc.
- Rachel Peterson, Interim Energy Advisor, California Public Utilities Commission
- Bhaskar Ray, Senior Director of Engineering and Design, SunEdison L.L.C. (Solar Energy Industries Association)
- Tim Roughan, Director, Energy and Environmental Policy, National Grid (Edison Electric Institute)

- Michael Sheehan, P.E., Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)
- Holly Rachel Smith, Assistant General Counsel, National Association of Regulatory Utility Commissioners
- Sky Stanfield, Attorney, Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)
- Steve Steffel, Manager, Distributed Energy Resources Planning and Analytics, Pepco Holdings, Inc.
- Jeff Triplett, Utility System Consultant, Power System Engineering (National Rural Electric Cooperative Association)
- Michael Worden, Chief, Electric Distribution Systems, New York State Public Service Commission

11:00 – 11:15 a.m. Break

11:15 a.m. – 12:15 p.m. Roundtable Discussion: Pre-Application Report

The Commission proposed in the NOPR to include provisions in the SGIP that would allow the interconnection customer to request from the transmission provider a pre-application report providing existing information about system conditions at a

possible point of interconnection (see section 1.2 of Appendix C to the NOPR for the proposed SGIP revisions related to the pre-application report).³

Roundtable participants should be prepared to discuss the following:

- The content of the pre-application report, including whether additional items should be included in the report; and
- Whether the proposed fee of \$300 for the pre-application report is appropriate.

Roundtable Participants

- Aaron Berner, Manager, Interconnection Analysis, PJM Interconnection, L.L.C.
- Michael Coddington, Senior Electrical Engineering Researcher, Distributed Grid Integration, National Renewable Energy Laboratory
- Paul Hutchison, Renewable Energy Analyst, Public Utilities Commission of Ohio
- Eric Laverty, Director of Transmission Access Planning, Midwest Independent Transmission System Operator, Inc.
- Rachel Peterson, Interim Energy Advisor, California Public Utilities Commission

³ See *id.* P 26–29.

- Bhaskar Ray, Senior Director of Engineering and Design, SunEdison L.L.C.
(Solar Energy Industries Association)
- Tim Roughan, Director, Energy and Environmental Policy, National Grid
(Edison Electric Institute)
- Michael Sheehan, P.E., Keyes, Fox & Wiedman L.L.P. (Interstate Renewable
Energy Council)
- Holly Rachel Smith, Assistant General Counsel, National Association of
Regulatory Utility Commissioners
- Sky Stanfield, Attorney, Keyes, Fox & Wiedman L.L.P. (Interstate Renewable
Energy Council)
- Steve Steffel, Manager, Distributed Energy Resources Planning and Analytics,
Pepco Holdings, Inc.
- Jeff Triplett, Utility System Consultant, Power System Engineering (National
Rural Electric Cooperative Association)
- Michael Worden, Chief, Electric Distribution Systems, New York State Public
Service Commission

12:15 – 1:00 p.m. Break

1:00 – 2:30 p.m. Roundtable Discussion: Supplemental Review Screens

In the NOPR, the Commission proposed to revise the supplemental review in section 2.4 of the *pro forma* SGIP following failure of the Fast Track Process screens in section 2.2.1 of the *pro forma* SGIP.⁴ The supplemental review screens include a minimum load screen (section 2.4.1.1 of Appendix C to the NOPR), a voltage and power quality screen (section 2.4.1.2 of Appendix C to the NOPR), and a safety and reliability screen (section 2.4.1.3 of Appendix C to the NOPR).

Roundtable participants should be prepared to discuss the following:

- The specific content of the supplemental review screens proposed in the NOPR, including:
 - Whether twelve months of minimum load data is appropriate for use in the minimum load screen, or whether additional data, if available, should be required to be considered;
 - The reasons that minimum load data are not available to transmission providers and what the Commission could do to encourage data availability where appropriate; and

⁴ *See id.* P 33–40.

- Potential modifications to the supplemental review screens proposed in the NOPR to ensure the safety and reliability of the system.
- Whether the \$2,500 fee for the supplemental review proposed in the NOPR is appropriate.

Roundtable Participants

- Aaron Berner, Manager, Interconnection Analysis, PJM Interconnection, L.L.C.
- Michael Coddington, Senior Electrical Engineering Researcher, Distributed Grid Integration, National Renewable Energy Laboratory
- Paul Hutchison, Renewable Energy Analyst, Public Utilities Commission of Ohio
- Eric Laverty, Director of Transmission Access Planning, Midwest Independent Transmission System Operator, Inc.
- Rachel Peterson, Interim Energy Advisor, California Public Utilities Commission
- Bhaskar Ray, Senior Director of Engineering and Design, SunEdison L.L.C. (Solar Energy Industries Association)
- Tim Roughan, Director, Energy and Environmental Policy, National Grid (Edison Electric Institute)
- Michael Sheehan, P.E., Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)

- Holly Rachel Smith, Assistant General Counsel, National Association of Regulatory Utility Commissioners
- Sky Stanfield, Attorney, Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)
- Steve Steffel, Manager, Distributed Energy Resources Planning and Analytics, Pepco Holdings, Inc.
- Jeff Triplett, Utility System Consultant, Power System Engineering (National Rural Electric Cooperative Association)
- Michael Worden, Chief, Electric Distribution Systems, New York State Public Service Commission

2:30 – 2:45 p.m. Break

**2:45 – 3:45 p.m. Roundtable Discussion: Interconnection of Storage
Devices**

The Commission did not propose to revise the definition of Small Generating Facility to include storage devices in Attachment 1 to the SGIP and Attachment 1 to the SGIA as devices that produce electricity. However, Commission staff would like to discuss whether such a revision to the definition of Small Generating Facility would be appropriate and whether other revisions to the SGIP and SGIA related to interconnecting storage devices would be appropriate.

Roundtable participants should be prepared to discuss the following:

- Their experiences related to the interconnection of storage devices; and
- Potential revisions to the *pro forma* SGIP and *pro forma* SGIA that would facilitate interconnection of such devices.

Roundtable Participants

- Alan Elmy, Manager, Interconnection Projects, PJM Interconnection, L.L.C.
- Robert Rounds, Director, Asset and Project Management, Beacon Power, L.L.C. (Electricity Storage Association)
- Michael Sheehan, P.E., Keyes, Fox & Wiedman LLP (Interstate Renewable Energy Council)
- Mark Siira, Director of Business Development, ComRent International (Institute of Electrical and Electronics Engineers)
- Steve Steffel, Manager, Distributed Energy Resources Planning and Analytics, Pepco Holdings, Inc.
- Michael Worden, Chief, Electric Distribution Systems, New York State Public Service Commission

3:45 – 4:45 p.m. Panel Discussion: Disconnection of Small Generating Facilities During Over- and Under-Frequency Events

In the NOPR, the Commission proposed to revise section 1.5.4 of the *pro forma* SGIA to require the interconnection customer to design, install, maintain, and operate its

Small Generating Facility in accordance with the latest version of any applicable standards, such as the Institute of Electrical and Electronics Engineers Standard 1547 for Interconnecting Distributed Resources with Electric Power Systems, to minimize the likelihood of an off-normal frequency disturbance resulting in common mode disconnection of its Small Generating Facility.⁵

Panelists should be prepared to discuss the following:

- Their experiences and any relevant analysis involving frequency issues associated with distributed generation;
- Potential conflicts between existing disconnection requirements in current standards and new smart grid interoperability standards being developed under the auspices of the National Institute of Standards and Technology;
- Whether the proposed revision to section 1.5.4 of the *pro forma* SGIA appropriately addresses small generator disconnection due to common mode frequency disturbances at high penetrations of distributed generation; and
- Whether abnormal voltage conditions should also be addressed in the proposed revisions to section 1.5.4 of the *pro forma* SGIA.

Panelists

- Allen Hefner, Jr., Ph.D., National Institute of Standards and Technology

⁵ See *id.* P 46.

- Rachel Peterson, Interim Energy Advisor, California Public Utilities Commission
- Michael Sheehan, P.E., Keyes, Fox & Wiedman LLP (Interstate Renewable Energy Council)
- Mark Siira, Director of Business Development, ComRent International (Institute of Electrical and Electronics Engineers)