

From: Gubman, Joanna

Sent: 1/27/2014 9:56:09 AM

liddell@energyattorney.com (liddell@energyattorney.com);
JWaen@mceCleanEnergy.org (JWaen@mceCleanEnergy.org);
tdarton@pilotpowergroup.com (tdarton@pilotpowergroup.com); Huffman, Mark
(Law) (/O=PG&E/OU=Corporate/cn=Recipients/cn=MRH2); matthew@turn.org
(matthew@turn.org); jleslie@mckennalong.com (jleslie@mckennalong.com);
knakatani@calhrc.org (knakatani@calhrc.org); ksoutherland@tas.com
(ksoutherland@tas.com); LManz@viridityenergy.com
(LManz@viridityenergy.com); SLowe@EagleCrestEnergy.com
(SLowe@EagleCrestEnergy.com); rick_noger@praxair.com
(rick_noger@praxair.com); lwisland@ucsusa.org (lwisland@ucsusa.org);
cpacc@calpine.com (cpacc@calpine.com); cpuc@primuspower.com
(cpuc@primuspower.com); Glennbenson@dwt.com (Glennbenson@dwt.com);
whitney@clean-coalition.org (whitney@clean-coalition.org);
kimjohnson@ebarton.com (kimjohnson@ebarton.com);
mike_windpower@yahoo.com (mike_windpower@yahoo.com);
MbeLively@aol.com (MbeLively@aol.com); AKaplan@BrownRudnick.com
(AKaplan@BrownRudnick.com); karlk@dietzedavis.com (karlk@dietzedavis.com);
ehsieh@a123systems.com (ehsieh@a123systems.com);
jserfass@californiahydrogen.org (jserfass@californiahydrogen.org);
lflowers111@gmail.com (lflowers111@gmail.com); abrown@xtremepower.com
(abrown@xtremepower.com); proceedings@psrec.coop (proceedings@psrec.coop);
sdhilton@stoel.com (sdhilton@stoel.com); nes@a-klaw.com (nes@a-klaw.com);
To: jeanne.sole@sfgov.org (jeanne.sole@sfgov.org); mtierney-lloyd@enernoc.com
(mtierney-lloyd@enernoc.com); bcragg@goodinmacbride.com
(bcragg@goodinmacbride.com); jarmstrong@goodinmacbride.com
(jarmstrong@goodinmacbride.com); cathy.karlstad@sce.com
(cathy.karlstad@sce.com); douglass@energyattorney.com
(douglass@energyattorney.com); GloriaB@anzaelectric.org
(GloriaB@anzaelectric.org); igoodman@commerceenergy.com
(igoodman@commerceenergy.com); mdjoseph@adamsbroadwell.com
(mdjoseph@adamsbroadwell.com); andrea.morrison@directenergy.com
(andrea.morrison@directenergy.com); adam.green@solarreserve.com
(adam.green@solarreserve.com); dorth@krcd.org (dorth@krcd.org);
gbass@noblesolutions.com (gbass@noblesolutions.com); rkmoore@gswater.com
(rkmoore@gswater.com); Thomas, Sarah R. (sarah.thomas@cpuc.ca.gov);
VidhyaPrabhakaran@dwt.com (VidhyaPrabhakaran@dwt.com);
info@3PhasesRenewables.com (info@3PhasesRenewables.com);
njohnson@consumercal.org (njohnson@consumercal.org); KSEngineers@aol.com
(KSEngineers@aol.com); ames_doug@yahoo.com (ames_doug@yahoo.com);
willem.fadrhonc@stem.com (willem.fadrhonc@stem.com);
felicia.bellows@torresolenergy.com (felicia.bellows@torresolenergy.com);
ATrial@SempraUtilities.com (ATrial@SempraUtilities.com);
daking@semprausgp.com (daking@semprausgp.com); gotschall@ti-sd.com

(gotschall@ti-sd.com); Hal@AltonEnergy.com (Hal@AltonEnergy.com); tmason@gravitypower.net (tmason@gravitypower.net); epetersen@demand-energy.com (epetersen@demand-energy.com); toconnor@edf.org (toconnor@edf.org); proceedings@megawattsf.com (proceedings@megawattsf.com); RegRelCPUCCases (/O=PG&E/OU=Corporate/cn=Recipients/cn=RegRelCPUCCases); ssmyers@att.net (ssmyers@att.net); eric@ethree.com (eric@ethree.com); clamasbabbini@comverge.com (clamasbabbini@comverge.com); david@nemtzw.com (david@nemtzw.com); sephra.ninow@energycenter.org (sephra.ninow@energycenter.org); gmorris@emf.net (gmorris@emf.net); blaising@braunlegal.com (blaising@braunlegal.com); abb@eslawfirm.com (abb@eslawfirm.com); dkk@eslawfirm.com (dkk@eslawfirm.com); tomb@crossborderenergy.com (tomb@crossborderenergy.com); klatt@energyattorney.com (klatt@energyattorney.com); JanMcFar@sonic.net (JanMcFar@sonic.net); eddyconsulting@gmail.com (eddyconsulting@gmail.com); barmackm@calpine.com (barmackm@calpine.com); Erin.Grizard@BloomEnergy.com (Erin.Grizard@BloomEnergy.com); Diane.Fellman@nrgenergy.com (Diane.Fellman@nrgenergy.com); californiadockets@pacificorp.com (californiadockets@pacificorp.com); lwhouse@innercite.com (lwhouse@innercite.com); nsuetake@turn.org (nsuetake@turn.org); dansvec@hdo.net (dansvec@hdo.net); wrostov@earthjustice.org (wrostov@earthjustice.org); jack@casaraquel.com (jack@casaraquel.com); Ekelly@mceCleanEnergy.org (Ekelly@mceCleanEnergy.org); sswaroop@mceCleanEnergy.org (sswaroop@mceCleanEnergy.org); TLindl@kfwlaw.com (TLindl@kfwlaw.com); TMcRae@svlg.org (TMcRae@svlg.org); sean.beatty@nrgenergy.com (sean.beatty@nrgenergy.com); Rachel@largescalesolar.org (Rachel@largescalesolar.org); klr@a-klaw.com (klr@a-klaw.com); Rita.Liotta@navy.mil (Rita.Liotta@navy.mil); Lee, Evelyn C (Law) (/O=PG&E/OU=Corporate/cn=Recipients/cn=ECL8); nellie.tong@dnvkema.com (nellie.tong@dnvkema.com); mary.hemmingsen@brookfieldpower.com (mary.hemmingsen@brookfieldpower.com); pcarson@energycentral.com (pcarson@energycentral.com); virinder.singh@edf-re.com (virinder.singh@edf-re.com); Rachel@ConsciousVenturesGroup.com (Rachel@ConsciousVenturesGroup.com); mehta.associates@ymail.com (mehta.associates@ymail.com); jfortune@sunverge.com (jfortune@sunverge.com); nate.sandvig@enxco.com (nate.sandvig@enxco.com); n.davidson@renewableanalytics.com (n.davidson@renewableanalytics.com); tomm@lenergysystems.com (tomm@lenergysystems.com); roger@cbeal.org (roger@cbeal.org); Richard.S.Flood@jci.com (Richard.S.Flood@jci.com); janderson@viridityenergy.com (janderson@viridityenergy.com); usappk@gmail.com (usappk@gmail.com); jspilman@gridflexenergy.com (jspilman@gridflexenergy.com); dadams@viridityenergy.com (dadams@viridityenergy.com); rfo@sovereignenergy.net (rfo@sovereignenergy.net); michael.stelts@panasonic.com (michael.stelts@panasonic.com); afreifeld@viridityenergy.com

(afreifeld@viridityenergy.com); sahm@clean-coalition.org (sahm@clean-coalition.org); margaret.miller@brookfieldrenewable.com (margaret.miller@brookfieldrenewable.com); dschlosberg@brightsourceenergy.com (dschlosberg@brightsourceenergy.com); cwcollar@snopud.com (cwcollar@snopud.com); dmoglen@foe.org (dmoglen@foe.org); agassner@enbala.com (agassner@enbala.com); dkates@sonic.net (dkates@sonic.net); jLin@strategen.com (jLin@strategen.com); jkopyciok@energy-solution.com (jkopyciok@energy-solution.com); rspolek@besciences.com (rspolek@besciences.com); yoonha@nexcontech.com (yoonha@nexcontech.com); anfanzone@semprautilities.com (anfanzone@semprautilities.com); dyana@clean-coalition.org (dyana@clean-coalition.org); Cherry, Brian K (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=BKC7); Haertle, Steve (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=SRH1); lmh@eslawfirm.com (lmh@eslawfirm.com); joyw@mid.org (joyw@mid.org); eric@ethree.com (eric@ethree.com); filings@a-klaw.com (filings@a-klaw.com); tam@communityrenewables.biz (tam@communityrenewables.biz); CentralFiles@SempraUtilities.com (CentralFiles@SempraUtilities.com); Cotroneo, Eileen (/O=PG&E/OU=Corporate/cn=Recipients/cn=EFM2); cem@newsdata.com (cem@newsdata.com); case.admin@sce.com (case.admin@sce.com); mrw@mrwassoc.com (mrw@mrwassoc.com); e-recipient@caiso.com (e-recipient@caiso.com); Gonzales, Matthew (/O=PG&E/OU=Corporate/cn=Recipients/cn=MRGg); DWTCPUCDOCKETS@dwt.com (DWTCPUCDOCKETS@dwt.com); Pagedar, Sujata (/O=PG&E/OU=Corporate/cn=Recipients/cn=sxpg); jsanders@caiso.com (jsanders@caiso.com); rl@eslawfirm.com (rl@eslawfirm.com); sue.mara@RTOadvisors.com (sue.mara@RTOadvisors.com); kowalewsia@calpine.com (kowalewsia@calpine.com); andykatz@sonic.net (andykatz@sonic.net); nrader@calwea.org (nrader@calwea.org); steven@iepa.com (steven@iepa.com); mpf@stateside.com (mpf@stateside.com); spauker@wsgr.com (spauker@wsgr.com); dgrandy@caonsitegen.com (dgrandy@caonsitegen.com); juliettea7@aol.com (juliettea7@aol.com); ttutt@smud.org (ttutt@smud.org); ek@a-klaw.com (ek@a-klaw.com); amber@iepa.com (amber@iepa.com); pmaxwell@navigantconsulting.com (pmaxwell@navigantconsulting.com); Monica.Schwebs@bingham.com (Monica.Schwebs@bingham.com); HRasool@SempraUtilities.com (HRasool@SempraUtilities.com); ddavie@wellhead.com (ddavie@wellhead.com); marcie.milner@shell.com (marcie.milner@shell.com); brian.theaker@nrgenergy.com (brian.theaker@nrgenergy.com); michelle.d.grant@dynegy.com (michelle.d.grant@dynegy.com); khojasteh.davoodi@navy.mil (khojasteh.davoodi@navy.mil); david@ceert.org (david@ceert.org); steven.huhman@morganstanley.com (steven.huhman@morganstanley.com); dbehles@ggu.edu (dbehles@ggu.edu); acsmith@stoel.com (acsmith@stoel.com); larry.r.allen@navy.mil (larry.r.allen@navy.mil); tderiv@scppa.org (tderiv@scppa.org); JMauldin@adamsbroadwell.com (JMauldin@adamsbroadwell.com); matt.vespa@SierraClub.org (matt.vespa@SierraClub.org); tculley@kfwlaw.com (tculley@kfwlaw.com);

aschwartz@solarcity.com (aschwartz@solarcity.com); dchia@solarcity.com (dchia@solarcity.com); Patwa, Daidipya (/O=PG&E/OU=Corporate/cn=Recipients/cn=D2PA); jderosa@ces-ltd.com (jderosa@ces-ltd.com); berlin@susieberlinlaw.com (berlin@susieberlinlaw.com); agay@carlsoncapital.com (agay@carlsoncapital.com); Fukui, Lucy (/O=PG&E/OU=Corporate/cn=Recipients/cn=LGK2); tsiebert@zbbenergy.com (tsiebert@zbbenergy.com); cgrieco@launchpnt.com (cgrieco@launchpnt.com); word@altonenergy.com (word@altonenergy.com); shears@ceert.org (shears@ceert.org); rvillarreal@earthjustice.org (rvillarreal@earthjustice.org); john.cummins@navy.mil (john.cummins@navy.mil); sreineccius@gmail.com (sreineccius@gmail.com); Capp@GridStorageConsulting.com (Capp@GridStorageConsulting.com); BAdams@EnerVault.com (BAdams@EnerVault.com); francis.taylor@enersys.com (francis.taylor@enersys.com); jbryan@codaenergy.com (jbryan@codaenergy.com); Smith, Christopher (/O=PG&E/OU=Corporate/cn=Recipients/cn=C5SE); MeganMMyers@yahoo.com (MeganMMyers@yahoo.com); Steph@Clean-Coalition.org (Steph@Clean-Coalition.org); william.kissinger@bingham.com (william.kissinger@bingham.com); mdetsky@dietzedavis.com (mdetsky@dietzedavis.com); sarah.keane@bingham.com (sarah.keane@bingham.com); waltnerlaw@gmail.com (waltnerlaw@gmail.com); f.schubert@renewableanalytics.com (f.schubert@renewableanalytics.com); mmiddleton@pilotpowergroup.comp (mmiddleton@pilotpowergroup.comp); Krieger@pseHealthyEnergy.org (Krieger@pseHealthyEnergy.org); ddivine@eaglecrestenergy.com (ddivine@eaglecrestenergy.com); cecilia.aguillon@kyocera.com (cecilia.aguillon@kyocera.com); dan.patry@recurrentenergy.com (dan.patry@recurrentenergy.com); toguin@lightsail.com (toguin@lightsail.com); JFriderichs@pilotpowergroup.com (JFriderichs@pilotpowergroup.com); tandrews@calmac.com (tandrews@calmac.com); praveen.kathpal@aes.com (praveen.kathpal@aes.com); aviramontes@lbl.gov (aviramontes@lbl.gov); greencowboysdf@gmail.com (greencowboysdf@gmail.com); sbailey@semprausgp.com (sbailey@semprausgp.com); Doug.Hackley@Calenergy.com (Doug.Hackley@Calenergy.com); irene@igc.org (irene@igc.org); ericg@votesolar.org (ericg@votesolar.org); aghenis@storagealliance.org (aghenis@storagealliance.org); paul.stith@greenonramp.com (paul.stith@greenonramp.com); yaron@voltmetrix.com (yaron@voltmetrix.com); wtorre@ucsd.edu (wtorre@ucsd.edu); cpuc-r1012007@olivineinc.com (cpuc-r1012007@olivineinc.com); AAmirali@starwood.com (AAmirali@starwood.com); Nancy.Allred@sce.com (Nancy.Allred@sce.com); MSomogyi@GoodinMacBride.com (MSomogyi@GoodinMacBride.com); skincaid@makerscapital.com (skincaid@makerscapital.com); SZuretti@seia.org (SZuretti@seia.org); JJudson-mcqueeney@ces-ltd.com (JJudson-mcqueeney@ces-ltd.com); aadeyeye@earthjustice.org (aadeyeye@earthjustice.org); yu@beaconpower.com (yu@beaconpower.com); mharamati@opiniondynamics.com (mharamati@opiniondynamics.com); NODonovan@LREnergy.com (NODonovan@LREnergy.com); dhawkins3@mac.com (dhawkins3@mac.com);

rokeefe@xtremepower.com (rokeefe@xtremepower.com);
CatherineSullivan@yahoo.com (CatherineSullivan@yahoo.com);
sdavis@kngrid.com (sdavis@kngrid.com); maya@cbeal.org (maya@cbeal.org);
art@ucan.org (art@ucan.org); pklauer@caiso.com (pklauer@caiso.com);
CSummers@SempraUtilities.com (CSummers@SempraUtilities.com);
TCSaile@SempraUtilities.com (TCSaile@SempraUtilities.com);
Berlinski@BeaconPower.com (Berlinski@BeaconPower.com); martinc@mid.org
(martinc@mid.org); SDeb@EnergyOnLine.com (SDeb@EnergyOnLine.com);
sean.kagiyama@nedosv.org (sean.kagiyama@nedosv.org); Greenacre, Wade
(/O=PG&E/OU=Corporate/cn=Recipients/cn=WAG9); TJS@cyp-res.com
(TJS@cyp-res.com); farshid.arman@siemens.com (farshid.arman@siemens.com);
steve.eckert@BrookfieldPower.com (steve.eckert@BrookfieldPower.com);
CalConsumersAlliance@gmail.com (CalConsumersAlliance@gmail.com);
NThakar@PerkinsCoie.com (NThakar@PerkinsCoie.com);
msloustcher@codaelectric.com (msloustcher@codaelectric.com);
WJKeese@aol.com (WJKeese@aol.com); borion@lawyersforcleanenergy.com
(borion@lawyersforcleanenergy.com); je-erica@gr.sie.co.jp (je-erica@gr.sie.co.jp);
Kevin Woodruff (kdw@woodruff-expert-services.com) (kdw@woodruff-expert-
services.com); dhriking@siemens.com (dhriking@siemens.com); Malashenko,
Elizaveta I. (elizaveta.malashenko@cpuc.ca.gov); Peck, David B.
(david.peck@cpuc.ca.gov); Singh, Devla (devla.singh@cpuc.ca.gov); Villarreal,
Christopher (christopher.villarreal@cpuc.ca.gov); Roberts, Thomas
(thomas.roberts@cpuc.ca.gov); Lee, Rebecca Tsai-Wei (rebecca.lee@cpuc.ca.gov);
Simon, Sean A. (sean.simon@cpuc.ca.gov); Simon, Jason
(jason.simon@cpuc.ca.gov); Lukins, Chloe (chloe.lukins@cpuc.ca.gov); Douglas,
Paul (paul.douglas@cpuc.ca.gov); Fitch, Julie A. (julie.fitch@cpuc.ca.gov);
atrowbridge@daycartermurphy.com (atrowbridge@daycartermurphy.com); Momoh,
Rahmon O. (rahmon.momoh@cpuc.ca.gov); Hieta, Karin M.
(karin.hieta@cpuc.ca.gov); ehadley@reupower.com (ehadley@reupower.com);
White, Keith D. (keith.white@cpuc.ca.gov); mary.wiencke@pacificorp.com
(mary.wiencke@pacificorp.com); Yip-Kikugawa, Amy C. (amy.yip-
kikugawa@cpuc.ca.gov); O'Donnell, Arthur J. (Arthur.O'Donnell@cpuc.ca.gov);
Zhang, Zhen (Zhen.Zhang@cpuc.ca.gov); Levin, Robert
(robert.levin@cpuc.ca.gov); cpuc@libertyutilities.com (cpuc@libertyutilities.com);
Lee, Audrey (audrey.lee@cpuc.ca.gov); Sterkel, Merideth "Molly"
(MeridethMolly.Sterkel@cpuc.ca.gov); Wecker, Alan (Alan.Wecker@cpuc.ca.gov);
shaun.logue@brookfieldrenewable.com (shaun.logue@brookfieldrenewable.com);
Jim.Hicks@state.or.us (Jim.Hicks@state.or.us); whholmes@stoel.com
(whholmes@stoel.com); pjanderson@perkinscoie.com
(pjanderson@perkinscoie.com); kevin.snyder@hdrinc.com
(kevin.snyder@hdrinc.com); alsangler@snopud.com (alsangler@snopud.com);
Charles, Melicia (melicia.charles@cpuc.ca.gov); abining@energy.state.ca.us
(abining@energy.state.ca.us); Ghazzagh, Farzad (farzad.ghazzagh@cpuc.ca.gov);
Kersten, Colette (colette.kersten@cpuc.ca.gov); Kalafut, Jennifer
(jennifer.kalafut@cpuc.ca.gov); Salvacion, Lisa-Marie (lisa-
marie.salvacion@cpuc.ca.gov); Al-Mukdad, Wendy (wendy.al-

mukdad@cpuc.ca.gov); Gupta, Alope (aloke.gupta@cpuc.ca.gov)

Cc:

Bcc:

Subject: R.10-12-007 (Storage): Staff Proposals and Workshop Presentation today, 1/27

To the Service List of R.10-12-007 (Storage Proceeding):

Attached please find three Staff Proposals, presentation slides, and the agenda released for today's workshop as part of the Resource Adequacy Proceeding, R.11-10-023.

The workshop will be held in the CPUC Courtyard Room from 10:00am-2:00pm, and will cover (1) six staff proposals regarding RA program refinements; (2) a proposed Effective Load Carrying Capability methodology for wind and solar resources; and (3) proposed methodologies for calculating the qualifying capacity and effective flexible capacity of energy storage and demand response resources. Please see the Daily Calendar notice below for workshop logistics, including remote access information. Presentation slides will be posted to the [Resource Adequacy History](#) webpage after the workshop.

Please feel free to contact me with any questions.

Best,

Joanna Gubman

R.11-10-023 Public Workshop Notice – Resource Adequacy Staff Proposals

January 27, 2014

10 am – 2 pm

*California Public Utilities Commission
505 Van Ness Avenue, Courtyard Room
(Corner of Van Ness Avenue and McAllister Street)
San Francisco California 94102*

(Wheelchair Accessible)

Remote Access

To join by phone:

Teleconference number: (866) 812-8481

Participant code: 9058288#

To join by WebEx:

Go to

<https://van.webex.com/van/j.php?ED=235004447&UID=491292>

Topic: R.11-10-023 – Resource Adequacy Staff Proposals

Meeting Number: 746 614 238

Meeting Password: resource

The purpose of this workshop is to **(1)** introduce and discuss six staff proposals regarding RA program refinements; **(2)** describe and discuss a proposed Effective Load Carrying Capability methodology for wind and solar resources; and **(3)** describe and discuss proposed methodologies for calculating the qualifying capacity and effective flexible capacity of energy storage and demand response resources. Associated staff proposals providing further details about the material to be addressed at this workshop have been or will soon be published to the R.11-10-023 Service List, and will also be posted to http://www.cpuc.ca.gov/PUC/energy/Procurement/RA/ra_history.htm. Presentation slides will also be e-mailed out to the Service List prior to the workshop, for participants who are unable to attend in person. For questions about this workshop, please contact Joanna Gubman at joanna.gubman@cpuc.ca.gov or (415) 703-2333. This workshop will not include a lunch break.

Remote Attendance

Remote attendees will be able to participate by emailing questions to Joanna.gubman@cpuc.ca.gov or by submitting questions via the WebEx chat function. Questions will not be taken by phone. Presentation slides will be e-mailed to the R.11-10-023 Service List prior to the workshop.

For More Information, Please Contact: Joanna Gubman via phone at (415) 703-2333 or email at joanna.gubman@cpuc.ca.gov.

Joanna Gubman

Public Utilities Regulatory Analyst

Resource Adequacy & Procurement Oversight

California Public Utilities Commission

415-703-2333

joanna.gubman@cpuc.ca.gov