

Welcome to the SDG&E 2016 Enhanced Community Renewables RAM Request for Offers Bidders' Conference



SDG&E 2016 ECR RAM Request for Offers Bidders' Conference

September 7, 2016 | 1pm to 4pm Hosted by Web Event Services Dial–in: (866) 227-1607 Conference ID number is: 1675569



Bidders' Conference Outline

1. Welcome and Legal Disclaimer

1:00pm – 1:10pm

- 2. SDG&E and Supplier Diversity 1:10pm - 1:15pm
- 3. RFO Goal, Scope,
 & Evaluation Process
 1:15pm 2:30pm
- 4. PPA, Bid Submission & Q&A Session
- Customer Participation Requirements
 2:30pm 3:00pm
- 6. Interconnection

Transmission and Distribution & Q&A Session 3:00pm – 4:00 pm Fernando Valero | Partnerships & Programs Manager

Steve Taylor | E&FP Generation and Supply Manager & E&FP Diversity Champion

Dean Kinports | Senior Energy Policy Advisor

Harry Judd | Independent Evaluator

Evan Bierman | Principal Business Analyst

Mike Ruzzo | Senior Energy Administrator

Brandon Henzie | Customer Programs Manager

Ramsey Ayass | Generation Interconnection Team Lead Jim Spurgeon | Customer Generation Manager



Summer 2016 ECR RAM RFO Bidders' Conference

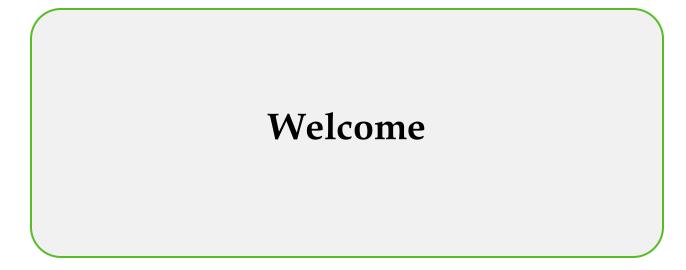
<u>Anti-trust:</u>

All participants in today's meeting shall comply with anti-trust guidelines. These guidelines direct meeting participants to avoid discussions of topics or behavior that would result in anti-competitive behavior, including restraint of trade and conspiracy to create unfair or deceptive business practices or discrimination, allocation of production, imposition of boycotts and exclusive dealing arrangements.

Document Conflict:

This presentation is intended to be a summary level discussion of the information and requirements established in the ECR RAM RFO Materials. To the extent that there are any inconsistencies between the information provided in this presentation and the requirements in the ECR RAM RFO Materials, the ECR RAM RFO Materials shall govern.





Fernando Valero | Partnerships & Programs Manager



- SDG&E is committed to the State's RPS goals and to continue to be compliant with RPS regulations.
- SDG&E worked together with the CPUC and other IOUs to develop a successful auction process. We have tried to incorporate lessons learned from the prior RAM RFOs and will continue to watch closely and learn from these solicitations.
- SDG&E is issuing this auction-style RFO for the purpose of implementing its Enhanced Community Renewables program.
- Assessment and selection transparency is paramount to us. Our Independent Evaluator, Harry Judd, will be involved in every step of the process.



General Q&A Guidance

- SDG&E will post questions and answers on the solicitation website at: <u>http://www.sdge.com/procurement/2016-ecr-renewable-auction-</u> <u>mechanism</u>
- Questions can be submitted to <u>ECRRAMSolicitation@semprautilities.com</u>, with copy to the IE, until the question submittal deadline
- Questions received and answers will be posted to the website periodically
- Deadline to submit questions is September 16, 2016 (offers are due by September 30, 2016)



SDG&E and Supplier Diversity

Steve Taylor | Generation & Supply Manager



Background on Diverse Business Enterprises (DBE) Program

- SDG&E encourages Women, Minority, Disabled Veteran, Lesbian, Gay, Bisexual and Transgender (LGBT) Business Enterprises ("Diverse Business Enterprises" or "DBE"s) to participate in the ECR RAM RFO
- General Order (GO) 156
 - GO 156 adopted by the CPUC in 1986, with electric procurement reporting added in 2012
 - Sets rules governing the development of programs to increase participation of DBEs in procurement of contracts from utilities as required by CPUC Code
 - Goal is to promote greater competition among utility suppliers by expanding the available supplier base and to encourage greater economic opportunity for women, minority, disabled veteran, and LGBT owned businesses historically left out of utility procurement
 - SDG&E encourages developers to utilize DBEs during various stages of project development and construction. SDG&E will require developers to identify and verify their DBE contractors and/or subcontractor spending, if any.



Diverse Supplier Certification and Eligibility

• SDG&E Support of DBE's

- Supplier diversity goals are part of every executives' department goals and are a component of every employee's compensation goals
- 42.7% of SDG&E's goods and services procurement dollars were spent with DBE's in 2015
- \$105 million of our energy procurement dollars were spent with DBE's in 2015
- For certification* and eligibility under GO 156, a DBE firm must meet the following requirements:
 - 1) Must be a business enterprise:
 - a) that is at least 51% owned by a Woman, Minority, Disabled Veteran, or LGBT individual or group(s), or
 - b) if a publically owned business, at least 51% of the stock of which is owned by one or more DBE individual(s) or group(s), ; and,
 - 2) whose management and daily business operations are controlled by one or more of those DBE owners

*Certification does not guarantee any business enterprise the right to bid or receive a contract.



Diverse Supplier Certification and Eligibility (continued)

- Obtaining Certification*
 - Minority, Woman or LGBT Owned Business
 - California Public Utilities Commission (CPUC) Supplier
 Clearinghouse http://www.thesupplierclearinghouse.com/
 - Service Disabled Veteran Business
 - State of California, General Services Office of Small Business and Disabled Veteran Business Enterprise Services (OSDS) http://www.dgs.ca.gov/pd/Programs/OSDS.aspx
 - Others Offering Certification
 - Regional affiliates of the National Minority Supplier Development Council (NMSDC)
 - o Small Business Administration 8(a) (SBA)
 - Women Business Enterprise Council (WBEC-WEST)
 - State and municipal government agencies

*Certification does not guarantee any business enterprise the right to bid or receive a contract.



Supplier Diversity Resources

- SDG&E Supplier Diversity Team Websites
 - http://www.sempra.com/about/supplier-diversity/
 - http://www.cpuc.ca.gov/puc/supplierdiversity/
- Local SDG&E Power Supplier Advisory Panel (PSAP)
 - Panel of SDG&E executives and employees, developers, DBEs and bankers focused on identify potential barriers to the participation of eligible DBEs in the electric procurement market, and work with regulatory agencies and DBEs to remove those barriers
- Statewide IOU Supplier Diversity Roundtable (SDR)
 - Representation of California IOUs executives and employees, developers, DBEs and bankers to promote and accelerate the entry of eligible DBEs into the electric procurement market in an open and transparent forum
 - 3 Working Groups: Wholesale, RA and Subcontracting Indirect Spend



Erica Beale

Program Manager -Supplier Diversity & Supplier Relations SDG&E <u>EBeale@semprautilities.com</u>

858-636-5538

Steve Taylor E&FP DBE Ambassador / Generation & Supply Manager <u>SRTaylor@semprautilities.com</u>

858-654-6361



Overview of Schedule, Product, Procurement Targets and Eligibility Requirements

Dean Kinports | Senior Energy Policy Advisor



Enhanced Community Renewables Program

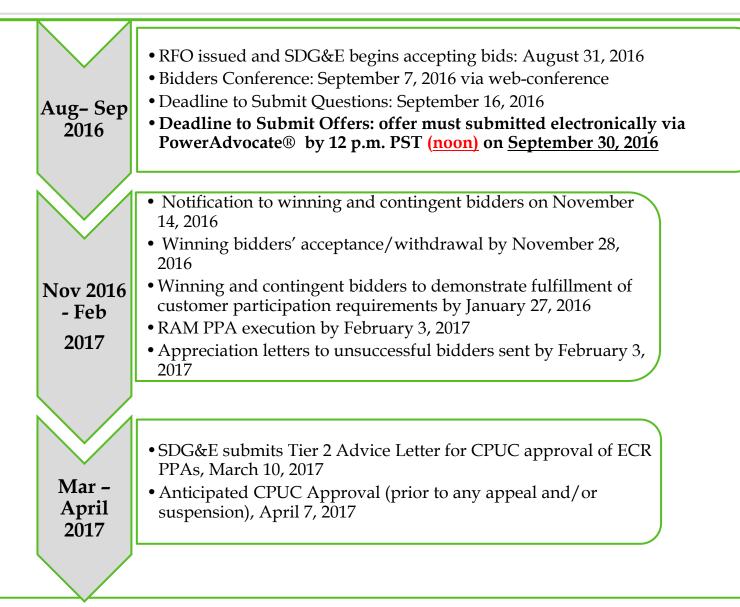
• Program was passed into law by Senate Bill 43 and implemented by the CPUC in D. 15-01-051 and 16-05-006

ECR program is intended to:

- Make clean, renewable energy available to bundled utility customers, whether or not they own a home and/or can afford a significant capital investment;
- Increase the overall volume of renewable energy in the San Diego area; and
- Increase options for institutional, commercial and residential customers to meet their renewable energy goals.



RFO Schedule / PPA Execution and Approval





Eligibility Requirements

Resource:

- Resources must be CEC-certifiable as an eligible renewable resource;
- Resources must utilize a commercially proven technology;
- Resources must be new facilities;
- Resources must be located in SDG&E service territory or the Imperial Valley
- Resources must sell entire output to SDG&E (full buy/sell) or all output in excess of onsite load to SDG&E (excess sales);
- Project shall comply with the CARB's Voluntary Renewable Electricity (VRE) Program
- Project must meet Green-e[©] Energy eligibility criteria throughout the Delivery Term of the ECR PPA
- To qualify as an Environmental Justice project, the generating facility must be located in one of the census tracts listed on SDG&E's website

Project Capacity:

- ECR Resources must be a minimum of 500 kW and a maximum of 20 MW installed nameplate capacity
- ECR-EJ Resources must be a minimum of 500 kW and a maximum of 1MW installed nameplate capacity
- All capacity ratings specified in this RFO must be nameplate capacities for **alternating current** ("**ac**") generation as provided to the bulk power transmission or distribution system. **Offers that provide direct current ("dc") ratings will be rejected for nonconformance.**



Location/Site Control:

- Projects must be located within the service territory of SDG&E or located in the Imperial Valley and either directly connected or dynamically transferred via pseudo-tie into SDG&E's service territory at the Imperial Valley substation by the CAISO
- The Respondent must have, at time of bidding, full site control for the duration of the 10, 15, or 20-year power purchase agreement, as applicable, evidenced by documentation of:
 - o Direct ownership
 - o Lease
 - Option to lease or purchase upon PPA approval. The option must be an exclusive option to the Bidder effective until the completion of the RFO cycle.

Note: If shortlisted, Respondent's interconnection documents must be: 1) in the name of the same entity that will execute the ECR PPA, or 2) shall have been assigned to such entity by the time Respondent accepts its position on the shortlist.



Securities Opinion:

• Prior to or concurrent with ECR PPA execution, the ECR developer must provide an original legal opinion, in form and substance acceptable to SDG&E, and addressed to SDG&E, issued by a law firm listed in The American Lawyer annual "AmLaw 100" list for the then-current year stating that the transactions between the ECR Customers and the ECR Applicant meet the requirements specified in the RFO protocol

Approved Marketing Materials

• Developer must receive SDG&E approval of all marketing materials prior to submitting a bid into the ECR solicitation.

Community Interest:

• ECR applicant must demonstrate fulfillment of its Community interest requirement within 60 days of notification of contract award



Interconnection:

- Respondents must: (i) have a completed Phase II interconnection study, or have an interconnection agreement; and (ii) provide a copy of the most recent completed Phase II study or interconnection agreement must be included in the offer.
- If the project is an existing facility, Respondent must provide the facility's interconnection agreement, and if a QF, an affidavit that there will be no anticipated material modification to their facility and that Respondent may proceed to the completion of an interconnection agreement with the CAISO
- For projects dynamically transferred via pseudo-tie into SDG&E's service territory, Respondents must: (i) provide a completed Phase II interconnection study or interconnection agreement, and (ii) provide documentation certifying the existence of dynamic transfer arrangements with a sufficient level of detail for SDG&E to determine conformance with Category 1 content specifications, RFO requirements, and to ensure that the dynamic transfer arrangement conforms with all other California state laws and decisions issued by the California Public Utilities Commission, the California Energy Commission, and any other regulatory authorities with jurisdiction over utility procurement in California.

Note: If shortlisted, Respondent's interconnection documents must be: 1) in the name of the same entity that will execute the ECR PPA, or 2) shall have been assigned to such entity by the time Respondent accepts its position on the shortlist.



Developer Experience:

- The Respondent and/or members of the project development team must have experience. Respondents must provide evidence of having completed, or begun construction, of a project using a technology similar to the offered technology, that is at least 500 kW nameplate capacity.
- The Respondent will maintain contractual control of the facilities and be responsible for development, land acquisition, permitting, financing and construction for the facilities. Respondents must provide a description of how operational control will be maintained.

Project Start Date:

• Offers must provide an anticipated delivery start date that is **within 36 months after the expected CPUC ECR RAM PPA Approval date.**

Other Incentives Not Permitted:

• Respondents shall not have sought Small Generator Incentive Program (SGIP) benefits, California Solar Incentives (CSI) or Net Energy Metering (NEM) Program benefits for the projects being offered and shall not plan to seek or participate in such programs for the entire term of the PPA.





Harold Judd | Accion Group



ACCION GROUP (ACCION) is approved by the CPUC as the Independent Evaluator for the RFO.

ACCION was founded in 2001 and has experienced professionals with extensive industry experience in the areas of:

- Evaluation & Dispatch Modeling
- Transmission & Distribution Systems
- Power Plant Construction & Operation
- Risk Analysis
- Legal Services (contracting & contract review)
 - o PPA / APSA / Green Field Development / Turnkey Projects

Harry Judd has more than thirty years of experience in regulated industries and emerging markets; His experience includes the following:

- 85 Independent Evaluator engagements over the previous ten years
- Consultant providing crucial guidance to major clients including BPA, PGE, the Nuclear Decommissioning Finance Committee, the Georgia Public Service Commission, and the Hawaiian Electric Company



Bid Conformance

- *IE's role in the ECR RAM RFO:*
 - Monitor the Standards of Conduct to
 - Ensure equal treatment of all bids
 - Set separation of the Company's Evaluation Team & Bidders
 - Support clear & consistent Communication & Messaging
 - Create confidence in the Market regarding the Process
 - Review Draft Documents & Process before PUC Filing
 - Provide Independent Contact for Bidders
 - Inform PUC of status, complaints & issues
- Bids should comply with all the requirements of the RFO
 - Any bids that are rejected because of conformance issues will be discussed with the IE
 - Any bids that are accepted that may have minor conformance issues will also be discussed with the IE
 - The goal is to ensure all bidders are treated in a fair manner



Overview of the ECR Offer Evaluation Process

Evan Bierman | Principal Business Analyst



Evaluation process for the ECR RAM RFO

Once the bids are received and the relevant data is identified and extracted to a database, the evaluation process for the ECR RAM RFO will consist of the following steps:

- 1. Screen the bids for conformance with the ECR RAM eligibility requirements
- 2. Analyze the bids using SDG&E's Least-Cost / Best-Fit (LCBF) evaluation methodology to create an initial quantitative ranking, and a subsequent final ranking which may modify the initial ranking based on qualitative criteria
- 3. Select winning bids for projects based on the final ranking



Pricing Options - FCDS or Energy Only

Full Capacity Deliverability Status (FCDS):

- 1. FCDS projects are capable of providing resource adequacy, and generally have a higher value than energy-only projects.
- 2. Projects which are located in SDG&E's local area are capable of providing local resource adequacy under CPUC and CAISO resource adequacy programs. Projects outside of SDG&E's local area are capable of providing system resource adequacy, which is less valuable than local resource adequacy.
- 3. FCDS projects capable of providing local resource adequacy are valued higher than FCDS projects capable of providing system resource adequacy.
- 4. FCDS projects must commit to achieve FCDS as close to COD as possible, but no later than the end of 2025.
- 5. The bid price will be multiplied by the FCDS TOD factors as shown below for deliveries in each TOD period:

FCDS TIME OF DAY PRICE MULTIPLIERS							
Location	Summer On-Peak	Summer- Semi-Peak	Summer Off-Peak	Winter On- Peak	Winter Semi-Peak	Winter Off- Peak	
Local	2.304	1.204	0.853	1.495	0.866	0.746	
System	1.927	0.958	0.869	1.464	0.948	0.827	



Energy-Only Status:

- 1. All renewable resources are valued based upon their ability to displace other forms of generation. Projects which cannot provide resource adequacy are unable to displace a capacity-related attribute provided by other forms of generation, and may require SDG&E to procure additional resource adequacy to make up for the shortfall.
- 2. Energy-only projects outside of SDG&E's local area are valued higher than energy-only projects inside of SDG&E's local area.
- 3. The submitted price will be multiplied by the energy-only TOD factors as shown below for deliveries in each TOD period:

ENERGY ONLY TIME OF DAY PRICE MULTIPLIERS							
Summer On-Peak	Summer- Semi- Peak	Summer Off-Peak	Winter On-Peak	Winter Semi- Peak	Winter Off-Peak		
1.581	0.957	0.896	1.509	0.977	0.853		



LCBF Overview

- Valuation and Selection Process
 - Least-Cost/Best-Fit (LCBF)
- Quantitative Evaluation
 - Net Market Value (NMV)
 - Each conforming offer is valued using this discounted cash flow analysis
- Qualitative Evaluation
 - Used to differentiate similarly valued offers
- Shortlisted Offers

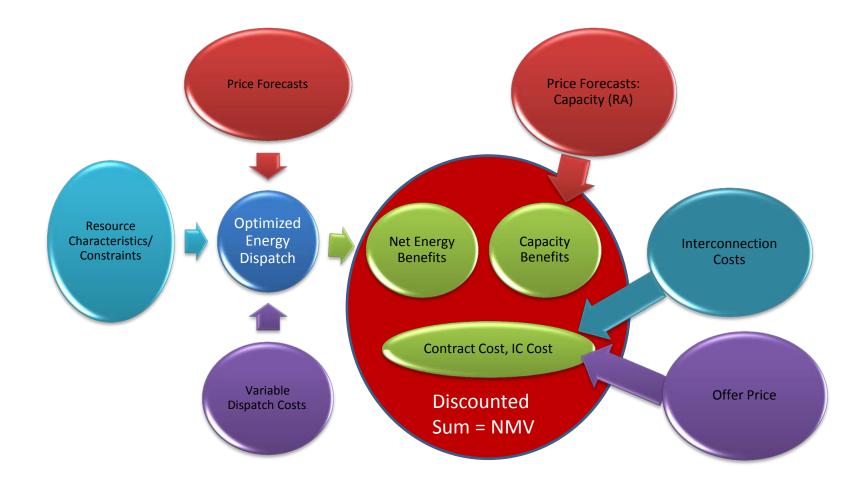




Typical Benefits	Typical Costs		
Energy	Contract Payments		
Ancillary Services (A/S) – Spin, Non-Spin, Reg Up, Reg Down	Variable Energy Costs (Fuel, VOM, GHG Compliance)		
Capacity (RA)	Transmission Interconnection		
Renewable Energy Credits (REC's)	Renewable Integration Adder		



NMV – Quantitative Valuation Process





NMV – Energy Dispatch

- Must-Take Resources (Non-Dispatchable)
 - Expected generation profile valued against energy forward price curves
- Dispatchable Resources
 - Dispatchable RPS-eligible resources are modeled with dispatch optimization model accounting for resource-specific operating characteristics to determine an optimal generation profile to value against energy forward price curves



Transmission Adder

- 1. Transmission costs from a project's latest transmission study will be used to calculate a transmission adder that will be applied to the project's Bid Ranking Price.
- 2. Only transmission costs <u>that are reimbursable to the bidder</u> will be used to compute the transmission adder. Amounts paid by the bidder for distribution interconnections and transmission-level upgrades that are not reimbursed will not be used in calculating the transmission adder.
- 3. In all cases, the reimbursable costs shown in the transmission studies submitted by the bidder will be used for adder computation.



Qualitative Evaluation

Criteria may be considered in the Qualitative Evaluation:

- Project development status:
 - Electrical interconnection status
 - Permitting status
 - Fuel and water interconnections
 - Site control
- Developer attributes
 - Project financing
 - Development experience
 - Project viability
- Diverse Business Enterprise ("DBE")
- Other attributes
 - Contribution to other procurement targets (CHP, RPS, Energy Storage)
 - Portfolio fit
 - Technology risk
 - Proximity to High Hazard Fuel Zone and ability to exceed the minimum fuel requirements from these zones
 - Start Date and Term



Overview of Bidding Protocols

Evan Bierman | Principal Business Analyst



- **Project Description Form** Submit one per project.
- **Pricing Form** *Respondents may submit one Energy-Only option and one FCDS option per project.*
- Site Control Documentation
- **Copy of completed interconnection agreement or Phase II interconnection study** - For projects dynamically transferred via pseudo-tie into the CAISO, Respondent must provide a completed System Impact Study, Facility Study, or equivalent and provide documentation certifying the existence of the dynamic transfer arrangements
- **PPA -** Bidders should submit an unexecuted ECR RAM PPA and Rider with their Bid (available on the RFO website), populated with required data including Seller's Annual Fuel Supply Plan

*The Project Description Form must be in Word or Word-compatible format (not in PDF). The Pricing Forms must be in Excel or Excel-compatible format (not in PDF). Copies of the completed interconnection agreement, interconnection study and site control documentation must be in PDF format.

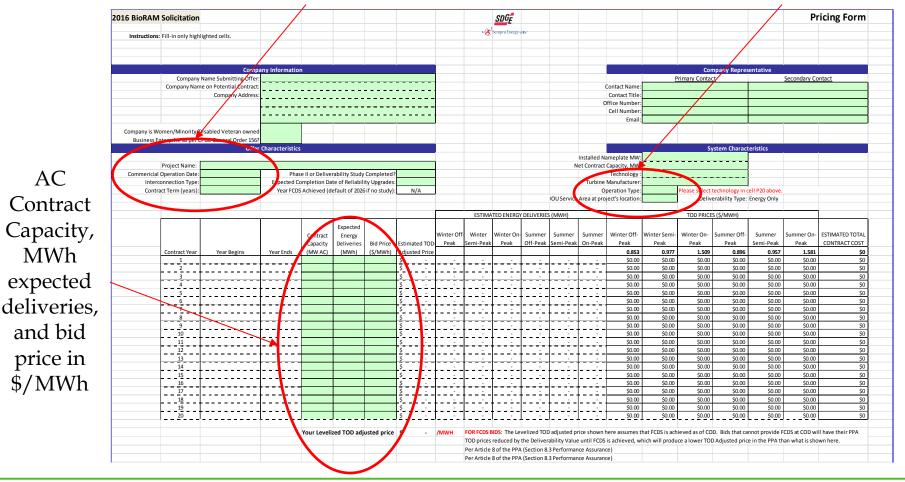


Bid Form Input Areas shown in light green.

Please do not input text in areas where numbers are expected to be used.

COD, contract term, and pricing type (FCDS or Energy Only)

In or Out of SDG&E's area





Don't Forget About the Connection! (below the pricing table)

- If in SDG&E's territory, use descriptions from the interactive interconnection map at <u>http://sdge.com/builderservices/dgmap/</u>
- In Queue Position Number, specify which queue you are in (CAISO or the host utility's WDAT)
- For the question regarding interconnection cost, please specify *only the non-reimbursable costs that are already accounted for in your bid price*

	Electrical Interconnection							
	Interconnection Point							
	Interconnection Voltage Level							
	Interconnection Status							
Que	ue Position Number (if assigned)							
How much in n	on-reimbursable interconnection							
	cost is assumed in your bid price?							



Delivery Profile

These cells should contain **capacity factors** (expected hourly generation divided by maximum capacity) for each individual hour. Capacity factors should be between 0% and 100%.

2016 BioRAN	A Solici	tation					SDGE							Reques	t for Offers
						۸ÆS	empra Energy othy								
Instructions:															
Populate the tab	le with e	<pre>cpected av</pre>	erage hour	ly generation	on of your	project du	ring the in	dicated tir	ne periods	•					
- Assume project	is at 100%	6 completi	on of all ph	ases.											
- Disregard any d	egradatio	n over tim	e.												
	\mathbf{i}														
				ĺ		ĺ									
						Expected	l average h	ourly gener	ation (MW)						
				WIN	TER				SU	MMER		WIN	ITER		
	Hour														
	of														
Hour Beginning	Day	January	February	March	April	May	June	July	August	September	October	November	December		
12:00 AM	1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
1:00 AM	2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
2:00 AM	3	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
3:00 AM	4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
4:00 AM	5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
5:00 AM	6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
6:00 AM	/	10.0		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
7:00 AM	8	10.0	10.0	<u> </u>	10.0 10.0	10.0	10.0 10.0	10.0	10.0	10.0 10.0	10.0	10.0	10.0		
8:00 AM 9:00 AM	10	10.0 10 0	10.0 10.0	10.0	10.0	10.0 10.0	10.0	10.0 10.0	10.0	10.0	10.0 10.0	10.0 10.0	10.0 10.0		
10:00 AM	10	10.0	10.0	10.0	10.0	10.0	10.0	10.0	<u>10.0</u> <u>10.0</u>	10.0	10.0	10.0	10.0		
11:00 AM	11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
12:00 PM	13	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
1:00 PM	14	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
2:00 PM	15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0		
3:00 PM	16	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
4:00 PM	17	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
5:00 PM	18	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
6:00 PM	19	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
7:00 PM	20	10.0	10.0	<u>10.0</u>	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
8:00 PM	21	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
9:00 PM	22	10.0		10.0	10.0	10.0	10.0	10.0	10.0	10.0		10.0	10.0		
10:00 PM	23	10.0		10.0	10.0		10.0	10.0	10.0	10.0	10.0	10.0	10.0		
11:00 PM	24	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		



Delivery Profile (Continued)

These numbers below the Delivery Profile compute the distribution of the project's energy deliveries in each TOD period over a typical year.

Total MWhs in Typical Day:	240	240	240	240	240	240	240	240	240	240	240	240
Total MWhs in Month:	7,440	6,780	7,440	7,200	7,440	7,200	7,440	7,440	7,200	7,440	7,200	7,440
% of annual delivery in month:	8.49%	7.73%	8.49%	8.21%	8.49%	8.21%	8.49%	8.49%	8.21%	8.49%	8.21%	8.49%
Winter Off-Peak	4.45%	4.05%	4.45%	4.30%	4.45%	4.30%					4.30%	4.45%
Winter Semi-Peak	3.03%	2.76%	3.03%	2.93%	3.03%	2.93%					2.93%	3.03%
Winter On-Peak	1.01%	0.92%	1.01%	0.98%	1.01%	0.98%					0.98%	1.01%
Summer Off-Peak							4.45%	4.45%	4.30%	4.45%		
Summer Semi-Peak							2.27%	2.27%	2.20%	2.27%		
Summer On-Peak							1.77%	1.77%	1.71%	1.77%		
	Winter Off-	Winter	Winter On-	Summer	Summer	Summer						
	Peak	Semi-Peak	Peak	Off-Peak	Semi-Peak	On-Peak						
Annual Offer TOP Breakdown:	34.74%	23.69%	7.90%	17.64%	9.02%	7.02%						



Mistakes on forms that can cause rejection of a bid

- Entering prices in cents/kWh and deliveries in kWh instead of \$/MWh and MWh
- Critical information missing (such as project location)
- Bidding DC capacity and energy instead of AC capacity and energy
- Adding or renaming worksheets
- Making the utility fill out your bid form





Mike Ruzzo | Senior Energy Administrator



Term	Description
Documents	Contract documents consist of the non-modifiable, standard RAM PPA and PPA Rider for Enhanced Community Renewables
Contract Duration	• 10, 15, or 20 contract years
Contract Capacity	• 0.5 – 20 MW (0.5 – 1 MW for Environmental Justice Projects)
Product Type	Baseload or as-available intermittent resources
Commercial Operation Deadline	 Must achieve Commercial Operation within 36 months of CPUC approval. One, 6 month extension allowed for certain permitting delays, interconnection delays or force majeure
Customer-Seller Agreement	 Between Customer and Seller for Customer Subscription to Seller's Facility. Buyer shall not be a party to, and is prohibited from requesting pricing information contained in, the CSA
ECR Tariff	 Buyer's Schedule ECR Enhanced Community Renewables Tariff, as posted on Buyer's website at <u>http://www.sdge.com</u>
Minimum Subscription Requirement *	 1st Contract Year: 50% of Project's Contract Capacity 2nd Contract Year: 75% of Project's Contract Capacity 3rd Contract Year: 95% of Project's Contract Capacity Remaining Years: 95% of Project's Contract Capacity * A five percent (5%) margin is reasonable to account for Subscription changes in the normal course of business if the Project is below the Minimum Subscription Requirement.



Term	Description
Customer's	<u>Customer's Minimum Subscription</u> is an amount of energy per year equal to or
Minimum and	greater than 100 kWh per month on average (calculated on an annual basis) or 25%
Maximum	of Customer's forecasted annual consumption
Subscription	<u>Customer's Maximum Subscription</u> is an amount not more than 2 MW of
-	nameplate generating capacity for a calendar year
	• Federal, state, or local governments, schools or school districts, county offices of
	education, the California Community Colleges, the California State University,
	or the University of California may exceed the 2 MW cap provided that no
	single entity, its affiliates or subsidiaries Subscribes to more than 20% of any
	single calendar year's total cumulative rated generating capacity
Energy Payments	Seller to be reimbursed by Customers who are Subscribed to the Project Capacity
	(Subscribed Capacity)
	When Unsubscribed Capacity is above the Minimum Subscription Requirement,
	Seller is paid Contract Price for deliveries from Unsubscribed Capacity, adjusted by
	TOD Factors based on when energy is delivered
Energy Price	Deliveries exceeding 110% of contract capacity in each hour are paid \$0/MWh
Adjustments	Energy deliveries exceeding 115% of annual Contract Quantity or 115% of the TOD
	Delivery Cap in any period are paid 75% of the Energy Price
	When Unsubscribed Capacity is below the Minimum Subscription Requirement,
	Seller is paid DLAP Price for the deliveries from Unsubscribed Capacity
Guaranteed	Minimum annual deliveries of 90% of expected annual net energy production for
Deliveries	baseload projects, based on one year of rolling production.



Term	Description
Economic Curtailment	 SDG&E shall curtail energy deliveries from the project for the economic purposes Seller is to be paid for an amount the project is deemed to have been able to deliver
Development Period Security	• A \$60 per kW deposit is required for intermittent resources, and a \$90 per kW deposit is required for baseload resources.
Delivery Term Security	An amount equal to 5% of expected total project revenues over the Delivery Term
Resource Adequacy/Full Capacity Deliverability Status	 Seller must apply for deliverability as soon as possible (but not required as part of bid) if bidder is selecting FCDS pricing. Seller must receive FINAL deliverability studies (e.g. Final Phase II deliverability studies) FCDS is not a condition precedent to commercial operation For FCDS projects, the PPA TOD factors include the value of FCDS. The TOD adjusted price will be reduced by a Deliverability Value until the project achieves FCDS. Once the project achieves FCDS, the Deliverability Value will be added back to the TOD-adjusted price. FCDS projects must achieve FCDS by no later than Jan. 1, 2026 For Energy Only projects, the PPA TOD factors do not include the value of FCDS
Appendix J	Seller to provide Customer Subscription information monthly, in the form of Appendix J



Term	Description
AmLaw 100 Legal Opinion	 Seller shall deliver to Buyer an original legal opinion, in form and substance acceptable to Buyer, issued by a law firm listed in The American Lawyer annual "AmLaw 100" list for the then-current year, stating that the transactions between the Customers and Seller: a) comply with securities law, and that Buyer and its ratepayers are not at risk for securities claims associated with the Project, and b) comply with one of the following: i. do not involve the offer or sale of "securities" under Cal. or federal law ii. involve the offer or sale of securities registered under federal securities law and exempt from qualification under Cal. securities law, iii. involve the offer or sale of securities exempt from registration under federal securities law and are qualified under Cal. securities law, or iv. involve the offer or sale of securities exempt from registration under federal securities law and exempt from qualification under Cal. securities law, as applicable. The legal opinion may not contain any exceptions or qualifications unacceptable to Buyer in its reasonable discretion. Seller must submit to Buyer an attestation from an officer of Seller that the fact certificate provided by an officer of Seller to the law firm issuing the legal opinion is true and complete and that Seller's business model with Customers is, and throughout the Delivery Term will be, as described in the legal opinion.



Bid Submission Process

Mike Ruzzo | Senior Energy Administrator



Ways to Register:

- 1. Receive an invitational email from SDG&E followed by a link to access PowerAdvocate®
- 2. Register as a first-time user on <u>www.PowerAdvocate.com</u>
 - Request for access using the Referral Information

Referral Information								
Are you registering for a specific Event: *	● Yes ○ No, I would simply like to register.							
Who referred you to this Event: *	ECRRAMSolicitation@semprautilities.com							
Name of that individual's company: *	San Diego Gas & Electric							
Name or description of the Event: *	60456: 2016 Enhanced Community Renewables RFO							

3. Request for access using the PowerAdvocate® link located at: <u>https://www.poweradvocate.com/pR.do?okey=60456&pubEvent=true</u>

How to Log On:

- 1. Launch a web browser and go to: <u>www.poweradvocate.com</u>, and then click on the orange **Login** button.
- 2. Enter your account User Name and Password (both are case-sensitive)
- 3. Click Login.



What information is displayed on my Dashboard?

Your Dashboard displays all bid events to which you have been invited.





DeverAdvocate

Accessing the RFP Event and Submitting Documents

How to Access the RFP Event from Dashboard:

- 1. To download the RFP package, click **1** or the **1**. **Download Documents** tab.
 - RFO Document
 - Project Description
 - Pricing Form
 - Interconnection Agreement, System Impact Study, a Phase I Interconnection Study, or Fast Track Documentation
 - Site Control Documentation

2. To upload documents, click 2 or the **2. Upload Documents** tab. Select the "Commercial and Administration" Document Type, then click **Browse** to navigate to your document and click **Open**. Finally, click **Submit Document**.

- Project Description Form (.doc or .docx)
- The Pricing Form (.xls or .xlsx)
- Interconnection Documents (.pdf)
- Site Control Documentation (.pdf)



PowerAdvocate Support

- <u>Support@poweradvocate.com</u>
- (857) 453-5800

Online Help

• Access the Help System at any time by clicking on the **Help** button

DowerAdvocate®	Dashboar	d Profile C	ompany Hel	p Logout				
Event Dashboard						Fill-	In Data Sheets	
Event	Msg	Open	Close	Download Documents	Upload Documents	Commercial	Technical	Pricing
35697 : 2013 SDGE Energy RFP Sempra Energy		05/02/13 5:00 PM EDT	05/14/13 4:00 PM EDT	1	2	3	4	5

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 Terms of Use



Please submit your questions by

September 16, 2016 to ECRRAMSolicitation@semprautilities.com



Enhanced Community Renewables Customer Participation and Marketing Requirements

Brandon Henzie | Customer Programs Manager



Marketing Requirements

- Developers are responsible for marketing their ECR project and recruiting interested customers
- All marketing materials produced by participating developers must:
 - Be reviewed by SDG&E prior to use or publication
 - Comply with SDG&E's branding guidelines
 - Comply with all Green-e Energy communications guidelines and requirements
- Please allow 30 days for the marketing review process
- Evidence of SDG&E marketing material review is required <u>prior to</u> <u>submitting a bid into the ECR solicitation</u>
- References:
 - Submit marketing materials to <u>CTTS@sdge.com</u>
 - Marketing requirements are outlined at: <u>http://www.sdge.com/developer-marketing-requirements-and-review-process</u>



Community Interest

- Bidders will have 60 days from the date of notification of contract award to fulfill the ECR community interest requirements
 - If community interest requirements are not met, the awarded capacity will be assigned to the next highest ranking least-cost best-fit (LCBF) ECR project in the solicitation
 - "Community" is defined as customers living within 10 miles of the project site, or within the same municipality or county as the project site
 - After the PPA is executed, customers can come from anywhere within SDG&E's service territory
- Interest Type 1 Expression of Interest: A signed document or submission of an online form using digital e-signature technology is required for each customer indicating interest in the project. Information required in the document includes customer name, service address, and subscription amount.
- Interest Type 2 Commitment to Enroll: requires the same information as an expression of interest, and also requires that the SDG&E service account number for the customer be provided.



Community Interest - 2

- To satisfy the community interest requirement:
 - Residents or businesses meeting the applicable location requirements must have **committed to enroll in at least 30%** of the facility's capacity, or have provided **expressions of interest in the project sufficient to reach 51%** of the facility's capacity.
 - Customers providing community interest must meet all eligibility requirements outlined in <u>Schedule ECR</u>.
 - At least three (3) individual customers must have committed to enroll or provided the necessary expressions of interest. This requirement increases with project size (i.e. a 20 MW project would require commitments to enroll or expressions of interest from at least 20 individual customers).
 - At least 50% (by number of customers) and at least 1/6th (by load) of the demonstrated community interest in the project must come from residential customers.
 - A guarantee of subscription levels from a third-party institutional customer, such as a municipality working to develop an ECR Project in its community, satisfies the community interest requirement.
- More information, including applicable forms, is available at <u>http://www.sdge.com/share-sun-for-solar-developers</u>



2016 CAISO Generator Interconnection & Deliverability Allocation Procedures

Ramsey Ayass | Senior Engineer



CAISO Generator Interconnection and Deliverability Allocation Procedures

Interconnection to SDG&E transmission system is governed by the CAISO's FERC approved Tariff:

• **Cluster Windows:** April 1 – April 30 of each year (If any date is not a Business Day, then the applicable date shall be the next Business Day.)

GIDAP PROCESS

•	Interconnection Request (IR)
---	------------------------------

- Scoping Meeting
- Project Grouping
- Phase I Interconnection Study
- Phase II Interconnection Study
- Posting of Financial Security
- ✤ Large/Small Generator Interconnection Agreements (LGIA/SGIA)



During the Cluster Study Windows, Interconnection Customers (ICs) must submit:

- A completed **Interconnection Request** (IR)
- Provide evidence to demonstrate **Site Exclusivity**
 - Or an additional deposit in lieu of Site Exclusivity is required: \$250K for a Large Generating Facility and \$100K for a Small Generating Facility

NOTE: For Cluster 5 under the CAISO Tariff Appendix DD, will address high cost & large scope DNUs through the TPP.



A completed IR includes:

- IR form
- Point of Interconnection (POI)
- Technical Data (Attachment A, Appendix 1)
- Voltage Level
- Study Deposit \$150,000*
- IC elects deliverability:
 - Full Capacity (FC) Delivery Network Upgrades for deliverability built, if needed, required to qualify for Resource Adequacy (RA) in PPA
 - Partial Deliverability for ____% of electrical output
 - Energy Only (EO) No Delivery Network Upgrades for deliverability built, not qualified for RA
 - *Pending FERC Approval.* Currently, \$50K + \$1K per MW, up to \$250K



- CAISO to schedule Scoping Meeting within 5 Business Days of the IR being deemed complete
- Scoping Meetings must be completed within 60 days of the close of the Cluster Study Window
- Face to Face project review with SDG&E and CAISO
- Sets the stage for development of the Phase I Study Agreement
- IC must designate Phase I Point of Interconnection (POI) within 3 Business Days of the Scoping Meeting
- CAISO tenders Phase I Study Agreement including study plan to IC within 10 Business Days of POI designation.
- IC to execute the Phase I Study Agreement within 30 days

After the Scoping Meetings, at the CAISO's option and in coordination with SDG&E, an IR may be studied individually or in a group study based on their interconnection points and shared transmission needs.



- *Typically commences July 1st each year Completed and Final Phase I Study report issued by year-end (may be extended)*
- SDG&E Reliability Network Upgrade (RNU) studies (a short circuit, stability, and power flow analysis, including off-peak analysis)
- CAISO Delivery Network Upgrade (DNU) studies (an On-Peak and Off-Peak (for information only) Deliverability Assessment for FC projects, required to receive Resource Adequacy (RA) qualification for PPA)
- Preliminary identification of the Interconnection Facilities and Network Upgrades required for each IR Assess the POI and potential alternatives
- Establish max. cost responsibility for RNU, Local Delivery Network Upgrades (LDNU), and Interconnection Facilities



- Phase I Study Results Meeting within 30 Days of study completion
- Within 10 Business Days of Results Meeting, IC may submit to CAISO desired modifications to the IR, including: decrease in the electrical output of proposed project, modify technical parameters of facility, and/or modify the interconnection configuration.
- GIDAP Phase I results provide each project with cost cap for its RNU and LDNU
 - *Retains GIP provisions on security postings*
 - LDNU cash reimbursement to align with TP deliverability allocation
- Phase I does not cap project exposure to ADNU costs



Between Phase I and Phase II Interconnection Studies

• To continue to Phase II, IC must elect either Option (A) or Option (B)

• Option (A)

- *Project requires TP deliverability to continue to commercial operation*
- *Project posts security for RNU and LDNU (not for ADNU)*
- *Phase II study will not identify any ADNU costs*
- *Option to park for a year if not allocated TPD*

• Option (B)

- *Project is willing & able to pay for ADNUs without cash reimbursement by ratepayers*
- *Project posts security for RNU, LDNU, and ADNU*
- ADNU security posting equals \$/MW cost rate determined in Phase I Study, times project MW deliverability
- ADNU no cash reimbursement, treated as merchant transmission, eligible for Congestion Revenue Rights (CRRs)



- Typically commences May 1st each year Completed and Final Phase II Study report issued by year-end (may be extended)
- Updates analyses performed in the Phase I studies to account for changes, i.e. changes to IRs, withdrawal of IRs, as applicable
- Identifies final Network Upgrades (RNU, LDNU, ADNU) needed to physically interconnect the Generating Facilities and assigns responsibility for financing the identified final Network Upgrades
- Identifies ADNU cost estimates, but not cost caps for Option (B) projects
- Identifies final POI and SDG&E's and IC's Interconnection Facilities and provides cost estimate of the final SDG&E's and IC's Interconnection Facilities
- Phase II Study Results Meeting within 30 Days following Study completion. CAISO, SDG&E, and the IC discuss the Phase II Interconnection Study report, including selection of the final COD.

Note: CAISO shall coordinate the Phase I and Phase II Interconnection Studies with SDG&E and any Affected System Operators



Application of Posting Requirements for NUs to (A)& (B) Projects

	Network Upgrades •ADNU, LDNU, RNU for B projects •LDNU and RNU for A projects								
Project Size	First Posting (Due 90 days after phase I study complete)	Second Posting (Due 180 days after phase II study complete)	Third Posting (Due at start of construction)						
20 MW or less	 Lesser of 15% of phase I study estimated network upgrade costs \$20,000 per MW (but not less than the lesser of \$50,000, or the estimated cost of network upgrades) 	Lesser of \$ I million 30% of lower of phase I or phase II study estimated network upgrade costs (but not less than the lesser of \$100,000, or the estimated cost of the network upgrades)	100% of lower of phase I or phase II study estimated network upgrade costs						
Greater than 20MW	 Lesser of \$7.5 million 15% of Phase I estimated network upgrade costs \$20,000 per MW (but not less than the lesser of \$500,000, or the estimated cost of network upgrades) 	 Lesser of \$15 million 30% of lower of phase I or phase II study estimated network upgrade costs (but not less than the lesser of \$500,000, or the estimated cost of the network upgrades) 	100% of lower of phase I or phase II study estimated network upgrade costs						



Generator Interconnection Agreements (LGIA & SGIA)

- Three-party agreement between the CAISO, SDG&E, and IC
- SDG&E to provide Draft GIA to IC no later than the sum of (i) 180 Calendar Days plus estimated time to construct facilities prior to the In-Service Date of the project.
- Negotiations to be completed within 120 Calendar Days of GIA tendering.
- Final GIA to IC within 10 Business Days after completion of GIA negotiation process.



Reimbursement of LDNU postings

- All projects are reimbursed for RNU costs up to \$60,000 per MW of installed capacity after commercial operation.
- *Option (A) and (B) projects allocated TP deliverability receive full reimbursement of LDNU postings after commercial operation.*
- Option (A) projects not allocated TP deliverability that remain in queue as energy only are reimbursed for first LDNU posting.
- *Option (B) projects not allocated TP deliverability are not eligible for reimbursement of LDNU or ADNU costs*



Generation Interconnection Information

SDG&E Interconnection Website: <u>http://www.sdge.com/generation-interconnections/overview-generation-interconnections</u>

- Download and review SDG&E Interconnection Handbook
- Links to CAISO interconnection queue, tariffs and websites
- Links to SDG&E interconnection queue, tariffs and websites
- Link to NERC/WECC Reliability Standards
- Links to Process Summaries
- Link to SDG&E Self Generation Technologies site

CAISO Generation Interconnection Process Contact:

- Lead Interconnection Specialist : Leslie Feusi (916) 351-2330

Lfeusi@caiso.com

SDG&E Contacts:

- Generation Interconnection Team Lead: Bruno Velosa (858) 654-8293
 <u>BVelosa@semprautilities.com</u>
- Generation Interconnection Project Manager: Marlene Mishler (858) 654-8640 <u>MMishler@semprautilities.com</u>
- Energy Administrator: Dan McCarron (858) 637-7905 DMcCarron@semprautilities.com



SDG&E Interconnection Procedures to Connect to the Electric Distribution System

Jim Spurgeon | Customer Generation





Distribution Interconnections

- The process to interconnect to SDG&E's distribution system is managed by the Customer Generation group in the Transmission & Distribution Engineering Department
- SDG&E's nominal distribution voltage is 12kV with limited 12.47 kV and 4 kV
- All Applications must be submitted to SDG&E's Customer Generation group
- Two application processes:
 - WDAT Wholesale Distribution Open Access Tariff (FERC)
 - Rule 21 SDG&E Electric Rule 21 (CPUC)



Application Package (WDAT and Rule 21)

Distribution Interconnection Application Package (for WDAT and Rule 21) Includes:

- Complete Interconnection Request
- Site Control Evidence
- Site Plan Diagram
- Single Line Diagram

An Invoice will be sent to Interconnection Customer (IC) and payment must be made before the application is considered complete:

- WDAT Application Fee: \$1,500
- Rule 21 Application Fee: \$800



WDAT Wholesale Distribution Open Access Tariff (FERC)



WDAT Application Form and Location

WDAT Application Location - <u>http://sdge.com/wdat</u>

WDAT Interconnection Package submitted to: *WDATSGIPAPPLICATIONS@semprautilities.com*

Or mail hardcopy application package to: **Customer Generation – CP52F San Diego Gas & Electric 8316 Century Park Court San Diego, CA 92123-1582**

Application fee to be submitted to: *Customer Payment Services – CP61C San Diego Gas & Electric PO Box 129831 San Diego, CA 92112-9831*



WDAT Application Process Timeline: (Fast Track & Study Process)

Process Milestone	Duration	Responsible Party
Submit Application	Clock Starts	Interconnection Customer (IC)
Application Deemed Complete or Provide Notice of Additional Items	10 BD	SDG&E
Provide Additional Items or Requests Extension	Additional 10 BD	Interconnection Customer (IC)
Deem Application Complete or Withdraw Application	Upon submittal of additional items	SDG&E

Sec 6.1 Reasonable Efforts

The Distribution Provider shall make reasonable efforts to meet all time frames provided in these procedures, including the payment of refunds, unless the Distribution Provider and the Interconnection Customer agree to a different schedule. If the Distribution Provider cannot meet a deadline provided herein, it shall notify the Interconnection Customer, explain the reason for the failure to meet the deadline, and provide an estimated time by which it will complete the applicable interconnection procedure in the process.



WDAT Fast Track Study Process

Fast Track

- Eligibility:
 - i) \leq 2 MW regardless of location on the circuit
 - ii) \leq 3 MW if located on mainline (3 ϕ and >4/0 or 336) and
 - 2.5 circuit miles from substation
- \$1500 non-refundable fee (\$500 processing + \$1,000 study deposit)
- Must Pass Fast Track Screens in Section 2
 - Initial Review
 - Supplemental Review (if needed) Cost: typically \$2500
- Small Generator Interconnection Agreement (SGIA)



Independent Study Process:

- \$800 non-refundable interconnection fee + study deposits:
- Eligibility: Pass Electrical Independence Test
- System Impact Study:
 - ≤5 MW: \$10,000
 - >5MW: \$50,000 and \$1000/MW
- Facilities Study: \$15,000
- Follow Study Process in WDAT Section 3
- Small Generator Interconnection Agreement (SGIA)



Cluster Study Process - approximately 18 months

- Generator Project (≤20MW) grouped in a cluster with other projects
- 2 Application Windows:
 - April 1-30
 - October 15 November 15
- Follow Study Process in Section 4
- Study deposit: \$50,000 + \$1,000/MW
- Small Generator Interconnection Agreement (SGIA)



Study	Timing	Study Procedures	Study Deposit
System Impact Study	60 BD	 Dynamic Analyses Updated Interconnection Cost estimates 	≤ 5 MW: \$10,000 > 5 MW: \$50,000 + \$1000/MW
Facilities Study	45/60 BD	 Electrical switching configuration Cost of equipment, engineering, procurement and construction work Time required to complete construction and interconnect Final Interconnection Cost estimates 	≤ 5 MW: \$15,000 > 5 MW: \$50,000 + \$1000/MW



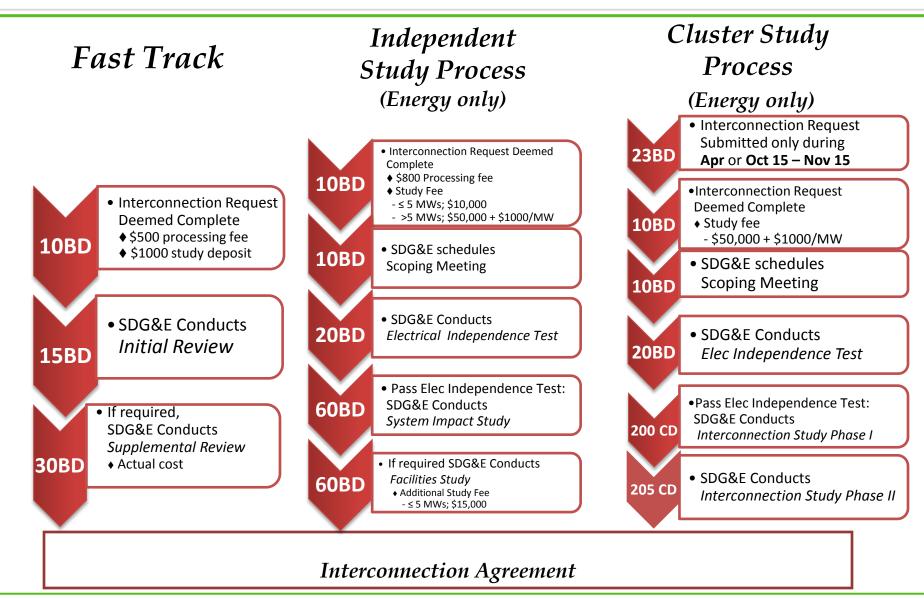
Study	Timing	Study Procedures	Study Deposit
Phase I (Start June 1)	200 CD	 Dynamic Analyses Updated Interconnection Cost estimates 	\$50,000 + \$1,000/MW
Phase II (Start May 1)	205 CD	 Electrical switching configuration Cost of equipment, engineering, procurement and construction work Time required to complete construction and interconnect Final Interconnection Cost estimates 	



Process	Duration	Responsible Party
Following the Facilities Study/Phase II	30 CD	SDG&E
•IC executes SGIA; or •IC fails to execute SGIA; or		Interconnection Customer (IC)
•IC has not requested to file unexecuted SGIA; or	120 CD	SDG&E
•IC has not initiated Dispute Resolution; + Interconnection Request Deemed Withdrawn		SDG&E & IC



WDAT Flow Charts & Timing





Rule 21 SDG&E Electric Rule 21 Generator Facility Interconnections (CPUC)



Rule 21 Application Form and Location

Rule 21 Application Location:

http://regarchive.sdge.com/tm2/pdf/ELEC_ELEC-SF_142-05203.pdf

WDAT Interconnection Package submitted to: <u>DGAPPLICATIONS@semprautilities.com</u>

Or mail hardcopy application package to: *Customer Generation – CP52F San Diego Gas & Electric* 8316 Century Park Court *San Diego, CA 92123-1582* **Application fee to be submitted to:** *Customer Payment Services – CP61C San Diego Gas & Electric PO Box 129831 San Diego, CA 92112-9831*



Rule 21 Fast Track Study Process

- Size limit: ≤1.5 MW; \$800 application fee
- Initial Review (13 screens) 15 BD from receipt of valid application package
 - Pass Initial Review:
 - Identify upgrades/interconnection facilities
 - Prepare cost estimate
 - Draft Generator Interconnection Agreement (GIA)
 - Fail Initial Review:
 - Request Supplemental Review or Detailed Study
 - Withdraw IR
- Supplemental Review (3 additional screens) 20 BD from receipt of additional information
 - Pass Supplemental Review:
 - Upgrades Required Cost Estimates; Draft Generator Interconnection Agreement (GIA)
 - No Upgrades Required Draft GIA
 - Fail Supplemental Review:
 - Request Detailed Study
 - Withdraw IR



Applicability

Size:

- >1.5 MWs and \leq 5 MW: \$10,000 study deposit
- > 5 MW: \$50,000 study deposit + \$1000/MW

Electrical Independence Tests

Transmission System – Screen Q Pass – Electrical Independence Test for Distribution System Fail – Transmission Cluster Study (WDAT) Distribution System – Screen R Pass – Independent Study Process Fail – Distribution Group Study Process



Independent Study Process

Interconnection System Impact Study

- Scoping Meeting Scheduled (5 BD after passing Screens Q & R)
- Provide Detailed Study Agreement to Applicant (15 BD)
- Commence SIS from receipt of DSA from Applicant (30 BD)
- Final SIS report (60 BD)
- Schedule Results Meeting if requested by applicant (10 BD from SIS report)
- Tender Draft GIA (if IFS waived) w/in 30 CD after waiving IFS

Interconnection Facilities Study (if required)

- ≤ 5 MW: Requires additional \$15,000 deposit; additional information
- Commence IFS, issue final report (60 BD if upgrades/45 BD no upgrades)
- Schedule Results Meeting if requested by applicant (5 BD from request)
- Tender Draft GIA (w/in 30 CD of issuing IFS)



Distribution Group Study Process

Phase I Interconnection Study

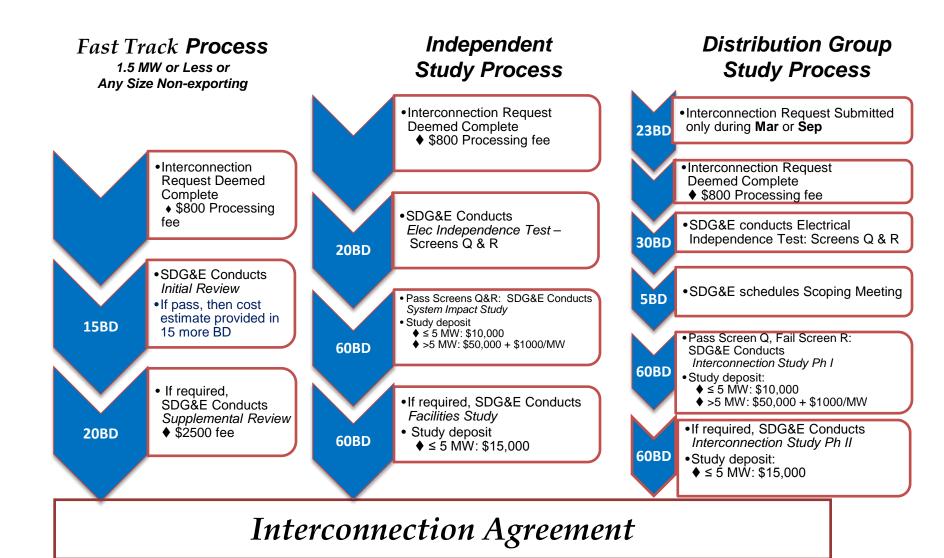
- Application must be submitted during two study windows: <u>March</u> and <u>September</u>
- Scoping Meeting Scheduled (5 BD after Elec. Independence Test)
- Provide Detailed Study Agreement to Applicant (15 BD)
- Conduct Phase I study and issue final study results report (60 BD from start of study)
- Results meeting upon Applicant request (optional; 5 BD to schedule meeting)
- Tender Draft GIA (30 CD after results meeting if Phase II study is waived).

Phase II Interconnection Study (if required)

- ≤ 5 MW: Requires additional \$15,000 deposit; additional information
- Phase II study begins (60 CD after Phase I final study results report)
- Final Phase II study results report completed (60 BD)
- Results meeting upon Applicant request (optional; 5 BD to schedule meeting)
- Tender Draft GIA (30 CD after results meeting)



Rule 21 Study Process Timelines





Additional Resources available at <u>www.sdge.com</u> Go to: CUSTOMER GENERATION in lower right corner

- Pre-Application Report (\$300)
- SDG&E WDAT and Rule 21 Interconnection Queue
- WDAT tariff
- Rule 21 tariff
- Interconnection Interactive Map (shows line capacity and available capacity after existing and queued generators)
- Generator Interconnection Handbook



Questions:

Ken Parks - Customer Generation Manager <u>kparks@semprautilities.com</u> 858-636-5581

Mike Turner - Principal Engineer <u>mturner@semprautilties.com</u> 858-654-8326



Please submit your questions by

September 16, 2016 to ECRRAMSolicitation@semprautilities.com

