



California ISO

Attachment A to Appendix 1 Generator Data

Excel Platform Draft-Final Proposal

Stakeholder Call

March 8, 2018

ISO Public

Project Overview

Objective:

- Convert the Att. A to App. 1, Generator Data form to an Excel Platform
- Automate the IR Validation process as much as possible

Please Note: There are now two documents to be completed for an Interconnection Application

1. Appendix 1, Interconnection Request (Word)
2. Attachment A to Appendix 1, Generator Facility Data (Excel)

Timeline:

Draft Final/Public Publication	February 27, 2018
Resource Interconnection Fair:	March 6, 2018
Stakeholder Call Overview:	March 8, 2018 10am-12pm (PST)
Stakeholder Comments Due:	March 12, 2018
New Form Effective:	Cluster 11 Application Window (April 1st through April 16th)

Interconnection Request (IR) Form Review

- Where to find the latest version
- Appendix 1 – Interconnection Request

Where to find the latest version

California ISO

ABOUT US PARTICIPATE STAY INFORMED **PLANNING** MARKET & OPERATIONS RULES ISO EN ESPAÑOL

Transmission-level resource interconnection (using ISO procedures) ISO interconnection request ISO interconnection study

Distribution-level resource interconnection (using utility procedures) Utility interconnection request Utility interconnection study

In parallel (outside of ISO/utility procedures) Permitting, engineering

Generator Interconnection

Reliability Requirements

Transmission Planning

Interregional Transmission Coordination

Reports and Bulletins

ISO new resource implementation

Sync date

Trial operations

COG date

Home > Planning > Interconnection Request

ISO Interconnection request

Resources newly interconnecting to the ISO controlled grid use an Interconnection Request to begin the process.

Interconnection request informational presentations

How and when to apply for interconnection and what to anticipate during the 10 week to 2½ year study process.

Interconnection Application - Study Options

Learn about available study processes, how to apply for interconnection, and requirements for a valid application. (interconnection request, site exclusivity documents/deposit, study deposit, technical data).

Interconnection Timeline and Study Process

Find out what to anticipate during the interconnection process, including an overview of timing, what to expect from joint meetings, requirements for posting financial security, and the impacts of a withdrawal on refunds.

Submit an interconnection request

Determine which available study process is appropriate for your interconnecting facility then submit an interconnection request to begin the study. Interconnection Requests may be submitted electronically, including the interconnection request document below, through the ISO Resource Interconnection Management System (RIMS) application.

- Interconnection request and technical data forms

To submit a new interconnection request or update an existing interconnection request, use the interconnection Request Microsoft Word template. Sample completed templates are available for reference. The supplemental Energy Storage Projects Supplemental Information is only needed for projects that include energy storage.

- Presentation - Resource Interconnection Management System Training Mar 31, 2016 3/30/2016 16:15
- Interconnection Request Form 2/23/2016 10:16
- Generator Data Form 2/27/2016 15:43

Related stakeholder processes

- Interconnection process enhancements 2015
- Energy storage

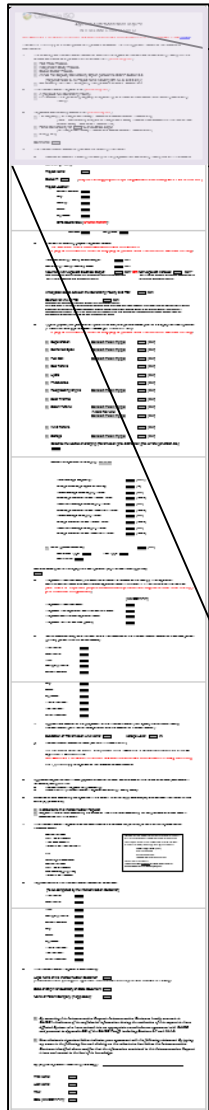
Process phases

- Getting started
- Interconnection request
- Interconnection study
- Interconnection agreement and queue management
- New resource implementation process

Related content

- Definitions and acronyms
- Generation participation
- Transmission planning

IR Form Review – Appendix 1



Appendix 1 Interconnection Request INTERCONNECTION REQUEST

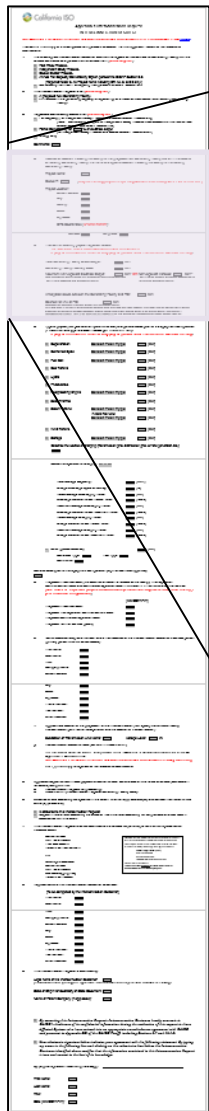
NO HARD COPY REQUIRED FOR INTERCONNECTION REQUESTS SUBMITTED ELECTRONICALLY VIA [RIMS 5](#)

Provide **one hard copy** of this completed form pursuant to Section 7 of this Appendix 1 below for non-electronic submissions.

1. The undersigned Interconnection Customer submits this request to interconnect its Generating Facility with the CAISO Controlled Grid pursuant to the CAISO Tariff (**check only one**):
 - Fast Track Process.
 - Independent Study Process.
 - Queue Cluster Process.
 - Annual Full Capacity Deliverability Option pursuant to GIDAP Section 9.2.
(Required fields: 3, 4a Project name including Q#, 4e, 8, and 9 only.)
 - Deliverability from Non-Participating TOs pursuant to GIDAP Section 9.4.
2. This Interconnection Request is for (**check only one**):
 - A proposed new Generating Facility.
 - An increase in the generating capacity, a repowering, or a Material Modification to an existing Generating Facility.
3. Requested Deliverability Status is for (**check only one**):
 - Full Capacity (For Independent Study Process and Queue Cluster Process only)
(Note – Deliverability analysis for Independent Study Process is conducted with the next annual Cluster Study – See GIDAP Section 4.6)
 - Partial Deliverability for % of electrical output
(for Independent Study Process and Queue Cluster Process ONLY)
 - Energy Only

Comments:

IR Form Review – Appendix 1 (cont'd)



4. The Interconnection Customer provides the following information:

- a. Address or location, including the county, of the proposed new Generating Facility site or, in the case of an existing Generating Facility, the name and specific location, including the county, of the existing Generating Facility;

Project Name:

Queue #: **(Only for existing projects requesting Annual Deliverability Assessment in item 1.)**

Project Location:

Street Address:

City:

County:

State:

Zip Code:

GPS Coordinates **(decimal format)**:

Latitude:

Longitude:

- b. Provide the following project megawatt values.

- **The MW values must match Attachment A Items 2A thru 2E**
- **If project is an increase to an existing project, provide values based on the MW increase only.**

Total Generating Facility Gross Output: MW

Generating Facility Auxiliary Load: MW

Maximum Net Megawatt Electrical Output: MW* **OR Net Megawatt increase:** MW**
Total Generating Facility Output less Generating Facility Auxiliary Load ***This is for an increase or Material Modification to an existing Generating Facility*

**This is for a proposed new Generating Facility*

Anticipated losses between the Generating Facility and POI: MW

Desired net MW at POI MW

Maximum Net Megawatt Electrical Output less Anticipated Losses

This MW value is the basis for delineation between large (>20 MW) and small projects (≤20 MW), and the pro rata basis for cost allocations of Reliability Network Upgrades (RNUs) except short circuit related RNUs in the Cluster Phase I and Phase II interconnection studies. This is the value that will appear in the ISO Generation Interconnection Queue Report. Your TP Deliverability Allocations will not be able to exceed this value.

IR Form Review – Appendix 1 (cont'd)

IMPORTANT: Please hand type all information into boxes – Do not cut and paste into the first five pages.

4. The Interconnection Customer provides the following information:

a. Address or location, including the county, of the proposed new Generating Facility site or, in the case of an existing Generating Facility, the name and specific location, including the county, of the existing Generating Facility;

Project Name:

Queue #: (Only for existing projects requesting Annual Deliverability Assessment in item 1.)

Project Location:

Street Address:

City:

County:

State:

Zip Code:

GPS Coordinates (decimal format)

Latitude: Longitude:

b. Provide the following project megawatt values:

- The MW values must match Attachment 1.
- If project is an increase to an existing project, the MW values must be greater than or equal to the existing project's MW values.

Total Generating Facility Gross Output:

Generating Facility Auxiliary Load:

Maximum Net Megawatt Electrical Output:
Total Generating Facility Output less Generating Facility Auxiliary Load
**This is for a proposed new Generating Facility.*

Anticipated losses between the Generating Facility and the POI:

Desired net MW at POI:
Maximum Net Megawatt Electrical Output less Anticipated Losses
This MW value is the basis for delineation between the allocations of Reliability Network Upgrades (RNU) for interconnection studies. This is the value that will apply to Deliverability Allocations will not be able to exceed this value.

Text Form Field Options

Text form field

Type: Regular text (dropdown) Default text:

Maximum length: Unlimited (dropdown) Text format: (dropdown)

Run macro on

Entry: (dropdown) Exit: (dropdown)

Field settings

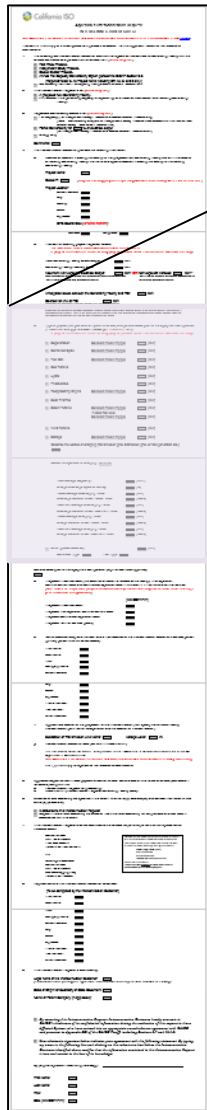
Bookmark: address1 (circled in red)

Fill-in enabled

Calculate on exit

Add Help Text... OK Cancel

IR Form Review – Appendix 1 (cont'd)



c. Type of project (i.e., gas turbine, hydro, wind, etc.) and general description of the equipment configuration (if more than one type is chosen include **gross MW for each**).
 - **If project is an increase to an existing project, provide values based on the MW increase only.**

<input type="checkbox"/> Cogeneration	Select Fuel Type	<input type="text"/> (MW)
<input type="checkbox"/> Combined Cycle	Select Fuel Type	<input type="text"/> (MW)
<input type="checkbox"/> Fuel Cell	Select Fuel Type	<input type="text"/> (MW)
<input type="checkbox"/> Gas Turbine		<input type="text"/> (MW)
<input type="checkbox"/> Hydro		<input type="text"/> (MW)
<input type="checkbox"/> Photovoltaic		<input type="text"/> (MW)
<input type="checkbox"/> Reciprocating Engine	Select Fuel Type	<input type="text"/> (MW)
<input type="checkbox"/> Solar Thermal		<input type="text"/> (MW)
<input type="checkbox"/> Steam Turbine	Select Fuel Type If more than one: Select Fuel Type	<input type="text"/> (MW)
<input type="checkbox"/> Wind Turbine		<input type="text"/> (MW)
<input type="checkbox"/> Storage	Select Fuel Type	<input type="text"/> (MW)

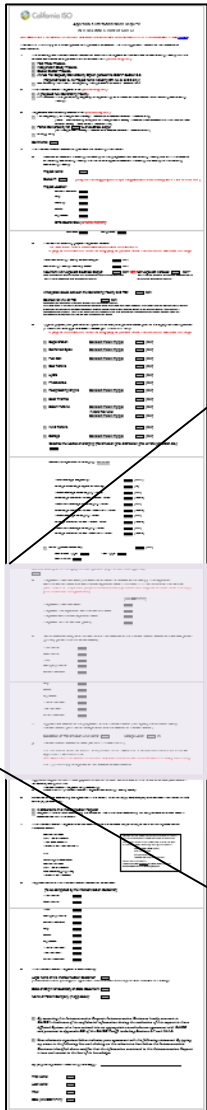
Describe the source of charging (transmission grid, distribution grid, on-site generator etc.):

Select the operation of charging: **Select***

Total Storage Capability:	<input type="text"/> (MWh)
Charge/Discharge Cycle Efficiency:	<input type="text"/> (%)
Rated Storage Discharging Power	<input type="text"/> (MW)
Discharge Duration under Rated Power	<input type="text"/> (hours)
Maximum Storage Discharging Power	<input type="text"/> (MW)
Discharge Duration under Maximum Power	<input type="text"/> (hours)
Rated Storage Charging Power	<input type="text"/> (MW)
Charge Duration under Rated Power	<input type="text"/> (hours)
Maximum Storage Charging Power	<input type="text"/> (MW)
Charge Duration under Maximum Power	<input type="text"/> (hours)

Other (please describe): (MW)
 Generator Type: Fuel Type:
 Comments:

IR Form Review – Appendix 1 (cont'd)



d. Proposed In-Service Date (first date transmission is needed to the facility), Trial Operation Commencement date and Commercial Operation Date in MM/DD/YYYY format and term of service (dates must be sequential, proposed Commercial Operation Date may not be more than seven (7) years from date of application):

(MM/DD/YYYY)

Proposed In-Service Date:

Proposed Trial Operation Commencement Date:

Proposed Commercial Operation Date:

Proposed Term of Service (years):

e. Name, address, telephone number, and e-mail address of the Interconnection Customer's contact person (primary person who will be contacted);

First Name:

Last Name:

Title:

Company Name:

Street Address:

City:

State:

Zip Code:

Phone Number:

Fax Number:

Email Address:

f. Approximate location of the proposed Point of Interconnection (i.e., specify transmission facility interconnection point name, voltage level, and the location of interconnection);

Substation or Transmission Line Name: Voltage Level: kV

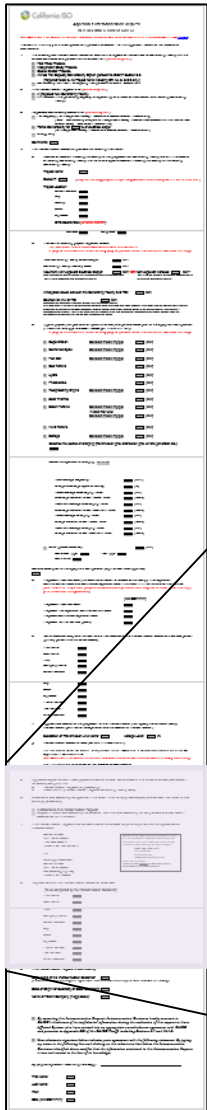
g. Interconnection Customer data (set forth in Attachment A)

The Interconnection Customer shall provide to the CAISO the technical data called for in GIDAP Appendix 1, Attachment A.

NO HARD COPY REQUIRED FOR INTERCONNECTION REQUESTS SUBMITTED VIA [\[LINK TO UI\]](#)

One (1) hard copy is required for non-electronic submissions.

IR Form Review – Appendix 1 (cont'd)



5. Applicable deposit amount made payable to California ISO. Send check or wire funds to CAISO (see section 7 for details) along with the:
 a. Interconnection Request for processing.
 b. Attachment A (Interconnection Request Generating Facility Data).

6. Evidence of Site Exclusivity as specified in the GIDAP and name(s), address(es) and contact information of site owner(s) (check one):

- Is attached to this Interconnection Request
- Deposit in lieu of Site Exclusivity via check or Fed Wire, Site Exclusivity will be provided at a later date in accordance with this GIDAP

7. This Interconnection Request shall be submitted to the CAISO via [UI LINK] or sent to the representative indicated below.

California ISO
 Attn: Grid Assets
 P.O. Box 639014
 Folsom, CA 95763-9014

OR

Overnight address:
 California ISO
 Attn: Grid Assets
 250 Outcropping Way
 Folsom, CA 95630

Deposit can be made via Fed Wire transfer or check – ACH is not accepted. Please be sure and reference the project name in the notes area of wire transfer or check for easy matching. Wiring information:
Wells Fargo Bank (LGIP)
ABA 121000248
Acct 4122041825
Federal Tax ID # 94-3274043
 CAISO is a Corporation.
Funds must be received no later than close of cluster window for cluster projects.

8. Representative of the Interconnection Customer to contact:

[To be completed by the Interconnection Customer]

First Name:

Last Name:

Title:

Company Name:

Street Address:

City:

State:

Zip Code:

Phone Number:

Fax Number:

Email Address:

IR Form Review – Appendix 1 (cont'd)

A small thumbnail image of the full CAISO Interconnection Request form, showing various sections and fields. A large white triangle is drawn over the right side of this thumbnail, pointing towards the enlarged section on the right.

9. This Interconnection Request is submitted by:

Legal name of the Interconnection Customer:
(Punctuation and spelling of Legal name must match Secretary of State document exactly)

State of Origin for Secretary of State Document:

Name of Parent Company (if applicable):

- By executing this Interconnection Request, Interconnection Customer hereby consents to CAISO's disclosure of its confidential information during the evaluation of this request to those Affected Systems who have entered into an appropriate non-disclosure agreement with CAISO and pursuant to Appendix DD of the CAISO Tariff, including Sections 3.7 and 15.1.2.*
- Your electronic signature below indicates your agreement with the following statement: By typing my name in the following line and clicking on the submission box below, the Interconnection Customer identified above certifies that the information contained in this Interconnection Request is true and correct to the best of its knowledge.*

By (original signature if submitting hard copy): _____

First Name:

Last Name:

Title:

Date (MM/DD/YYYY):

Live Preview & Open Discussion

Live Preview

Questions?

Next steps: Stakeholder Comments Due March 12, 2018