

# Collaborative Non-Profit DER Registry Briefing

Creating, Managing, Enrolling and Approval of an  
Aggregation

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**Collaborative** UTILITY  
SOLUTIONS

EMPOWERING THE ENERGY TRANSITION

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# Overview

- This presentation is designed to show the ability of the Non-Profit DER Registry to allow aggregations to be created (and managed going forward) as well as the enrollment and approval process for utility programs and ISO market products.

# The Process

- If you think of an aggregation like a virtual backpack that an aggregator fills up with sites, there is a process to define what it is in that backpack.
- First, you need to uniquely identify that backpack.
- Second, you need to establish the program (utility/retail) and/or the product (ISO) that you will desire the aggregation to be entered into and for what time period.
- Third, you start adding sites. But in this process, the system needs to make sure that the site isn't already in aggregation for a competing program/product in the same time period to ensure no conflicts exist and a 'valid' aggregation is created.
- Fourth, once the aggregation is valid, it must begin the process of enrollment and approval according to the rules of the utility/state/ISO.
- Fifth, once approved, it will be ready for the utility/ISO to utilize
- Notification to appropriate participants and transparent tracking/logging must be available through this entire process

# Definition still required

- There will be an evolution to this process as each utility/ISO defines their program/product rules, their required approval process, their add/delete sites rules for an aggregation, etc.

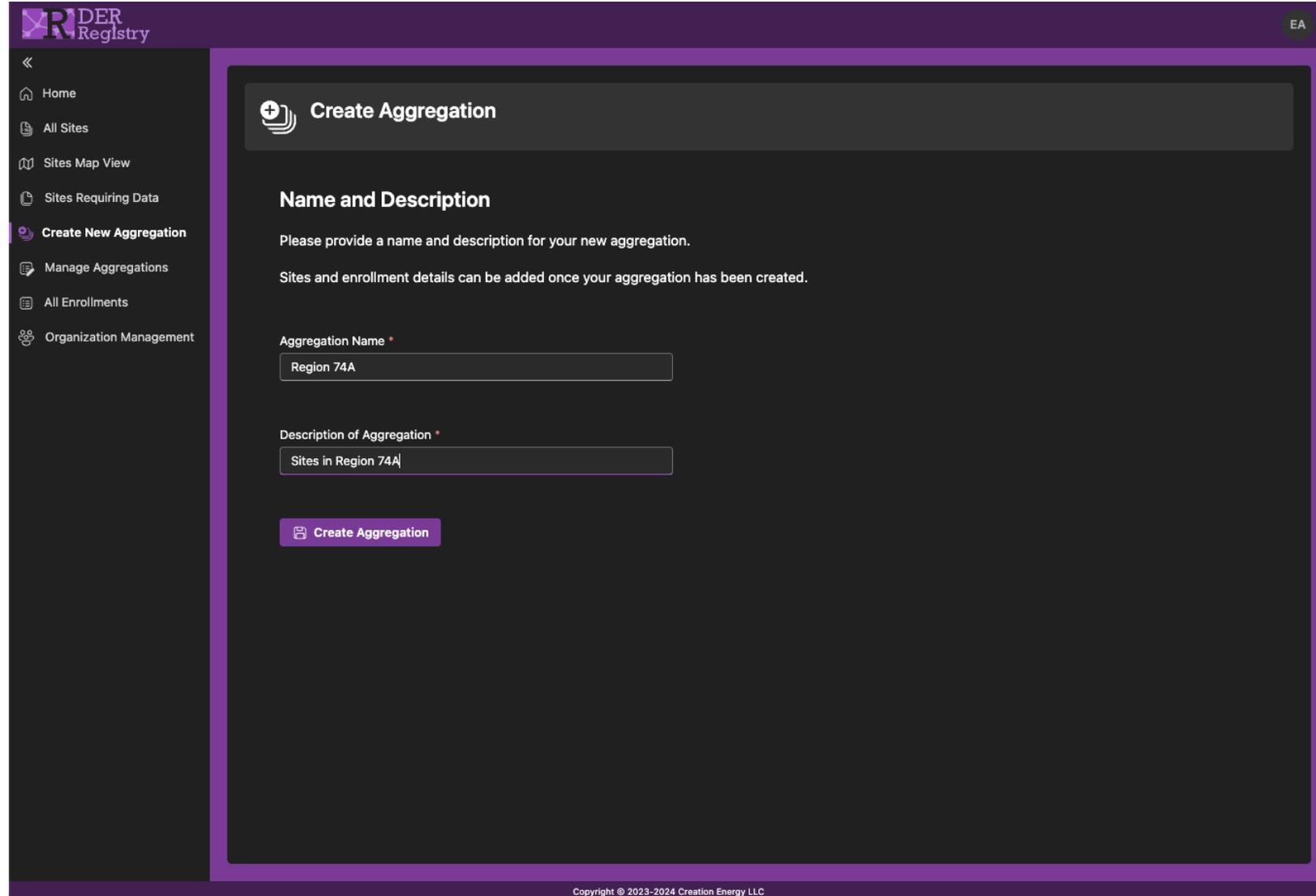
# Aggregator Home Page

- When Aggregator logs in they can see any action items they need to attend to
- Can also see their organization details and their role

The screenshot displays the Aggregator Home Page within the DER Registry system. The interface features a dark purple header with the 'DER Registry' logo on the left and a user profile icon labeled 'EA' on the right. A dark sidebar on the left contains a navigation menu with the following items: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area has a dark background and includes a 'Home' header with a house icon. Below this, a welcome message reads 'Welcome, Emily Aikens' and 'You are signed in as a Administrator for Aggro Gators'. A 'Required Actions' section, highlighted with a yellow border, lists two items: 'Aggregator Required Data Entry' (with a yellow warning icon) and 'Aggregation Enrollment Submittal' (with a yellow warning icon). The 'Aggro Gators' section below shows the user's role as 'Aggregator' and participation as 'Member'. At the bottom of the page, a copyright notice reads 'Copyright © 2023-2024 Creation Energy LLC'.

# Creating an Aggregation

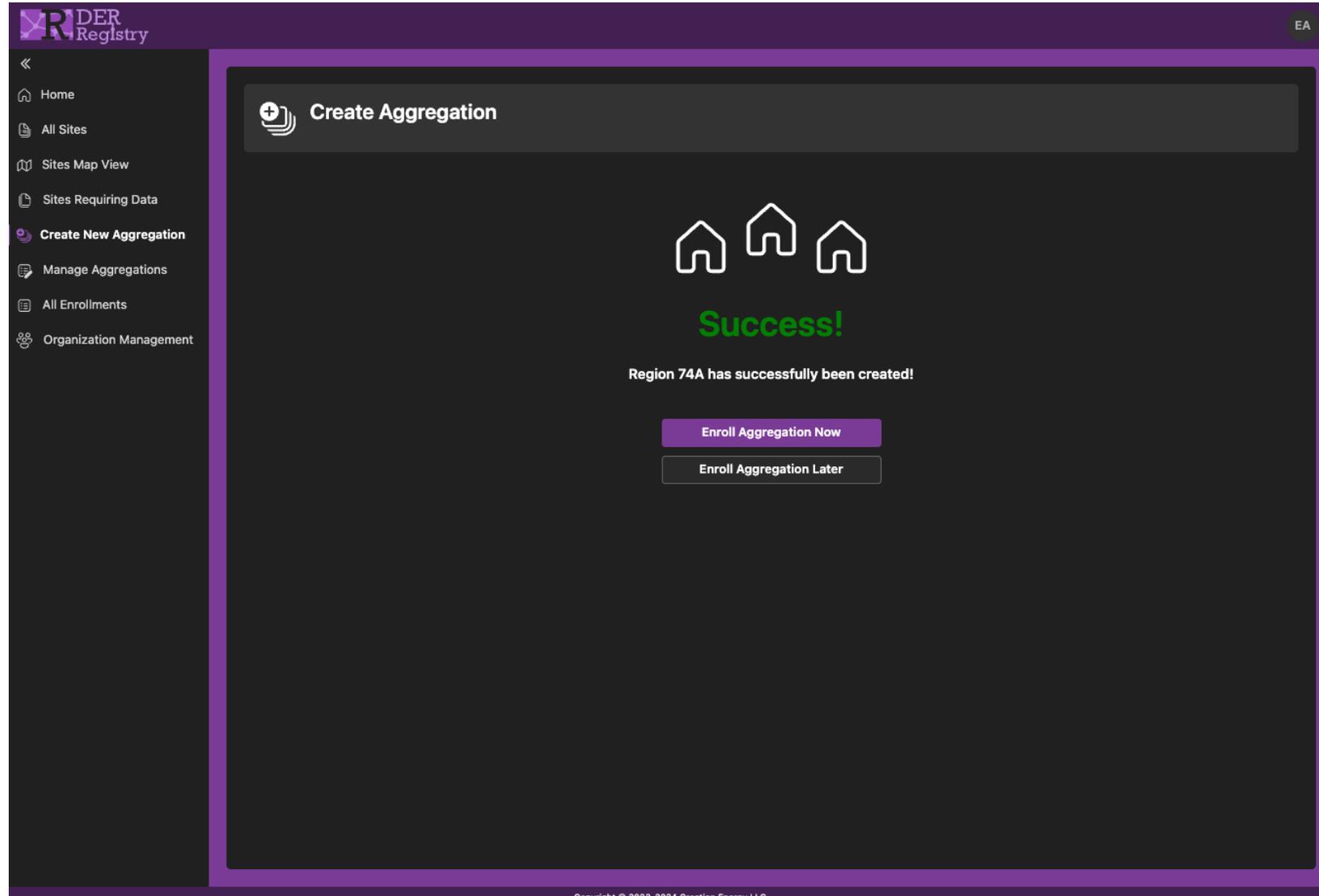
- Aggregator can create a new aggregation by going to the 'Create New Aggregation' tab
- Aggregator is asked to name and describe the Aggregation
- Registry also assigns a unique identifier to the aggregation



The screenshot shows the 'Create Aggregation' page in the DER Registry. The page has a dark purple header with the 'DER Registry' logo and a user identifier 'EA' in the top right. A sidebar on the left contains navigation links: Home, All Sites, Sites Map View, Sites Requiring Data, **Create New Aggregation** (highlighted), Manage Aggregations, All Enrollments, and Organization Management. The main content area is titled 'Create Aggregation' and includes the following text: 'Please provide a name and description for your new aggregation.' and 'Sites and enrollment details can be added once your aggregation has been created.' There are two input fields: 'Aggregation Name \*' with the value 'Region 74A' and 'Description of Aggregation \*' with the value 'Sites in Region 74A'. A purple 'Create Aggregation' button is located below the description field. The footer of the page contains the text 'Copyright © 2023-2024 Creation Energy LLC'.

# Creating an Aggregation

- Confirmation screen that the aggregation has been created and is now ready to be enrolled in a utility program or market product
- Asks user if they would like to enroll this aggregation into a utility program or market product now or later



# Enroll an Aggregation

- Registry is designed to allow ‘dual registration’ and incorporate the rules/policy of DSO/ISO/Market to ensure no ‘dual compensation’
- A site may be dual registered – It may participate in both a utility retail program and an ISO market product
- Therefore, a site may be included in two different different aggregations to allow dual participation.
- A DSO utility retail program cannot include sites from outside of their service territory. In other words, only sites within the DSO utility service area may be included in an aggregation for a DSO utility retail program.
- An ISO market program could conceivably have many different sites from many different DSOs. Therefore, the aggregation for the ISO market product must be able to include sites that are constrained to a single aggregation in a DSO program. ISO may have additional rules to constrain aggregations to one market node, etc.
- However, a site may NEVER participate in more than **ONE** DSO utility program and **ONE** ISO market product.

# DSO/ISO engagement process

- This section describes the engagement process for both DSO (utility retail program) and ISO (market product) aggregation development so an aggregation is ready to be entered into the formal enrollment and approval process
- We refer to all utility retail programs for aggregations as “Programs”
- We refer all ISO market products for aggregations as “Products”

# Manage Aggregations

- Clicking on an aggregation allows Aggregator to view/modify aggregation and enrollments
- Aggregator has ability to manage/modify all aggregations created

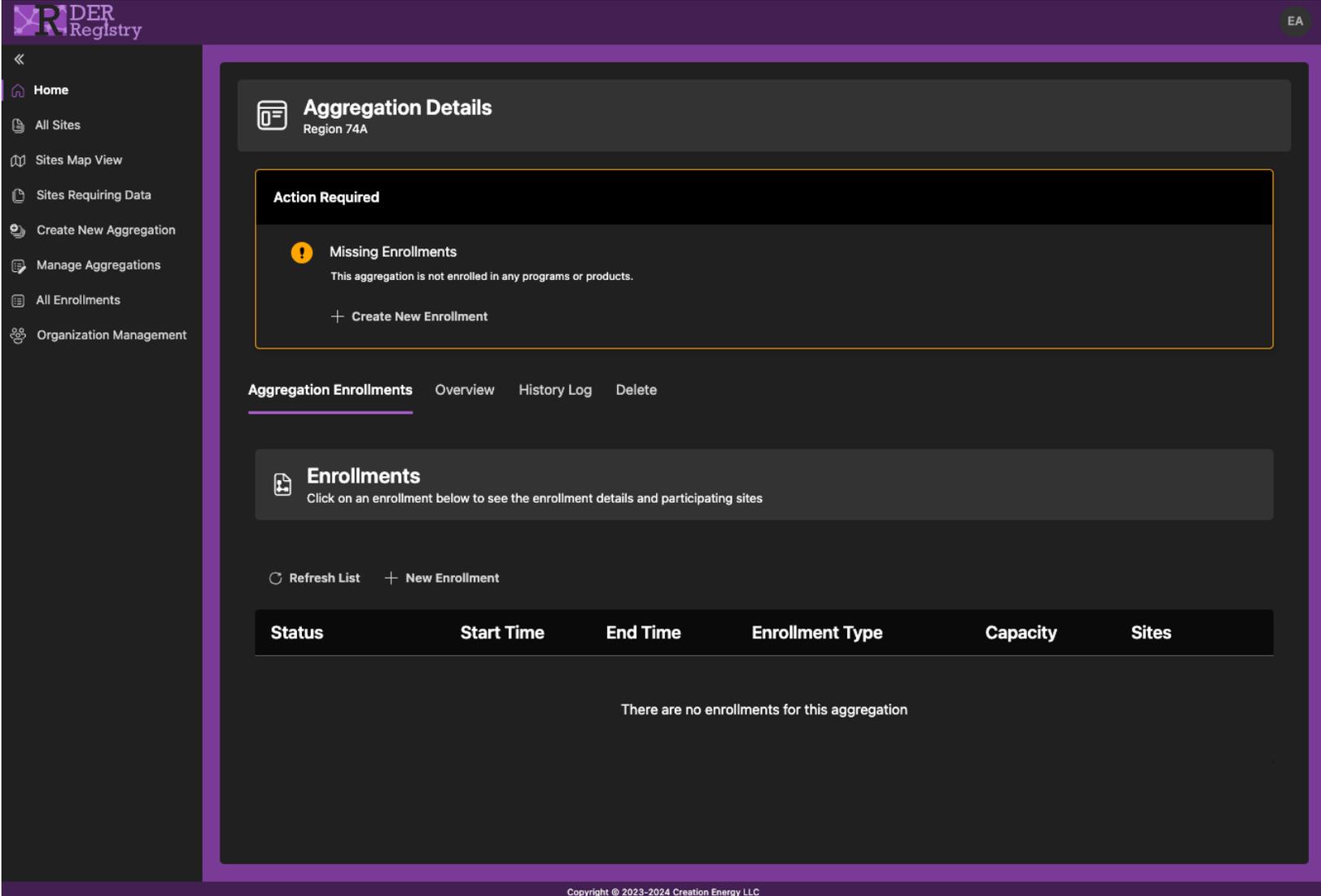
The screenshot displays the 'Manage Aggregations' page in the DER Registry. The page features a sidebar with navigation options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations (highlighted), All Enrollments, and Organization Management. The main content area shows a 'Manage Aggregations' header with a 'Refresh List' button and a '+ New Aggregation' button. Below this is a table with the following data:

Action Required	Aggregation Name	Created	Last Modified	Description
Add enrollment(s)	Region 74A	2024-03-06	2024-03-06	Sites in Region 74A
Submit enrollment(s)	Region 44	2024-02-22	2024-02-22	Site in Region 44
None	Region 73-B	2024-02-22	2024-02-22	Sites in Region 73-B
None	Region 72-A	2024-02-22	2024-02-22	Sites from Region 72-A
Submit enrollment(s)	Region 2	2024-02-20	2024-02-21	Properties within Region 2
Add enrollment(s)	Region 1B	2024-02-20	2024-02-21	Properties within Region 1B
None	Region 1A	2024-02-21	2024-02-21	Properties within Region 1A

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# Aggregation Details

- When aggregator clicks on an aggregation they can see the details
- They are notified if there are no enrollments for that aggregation



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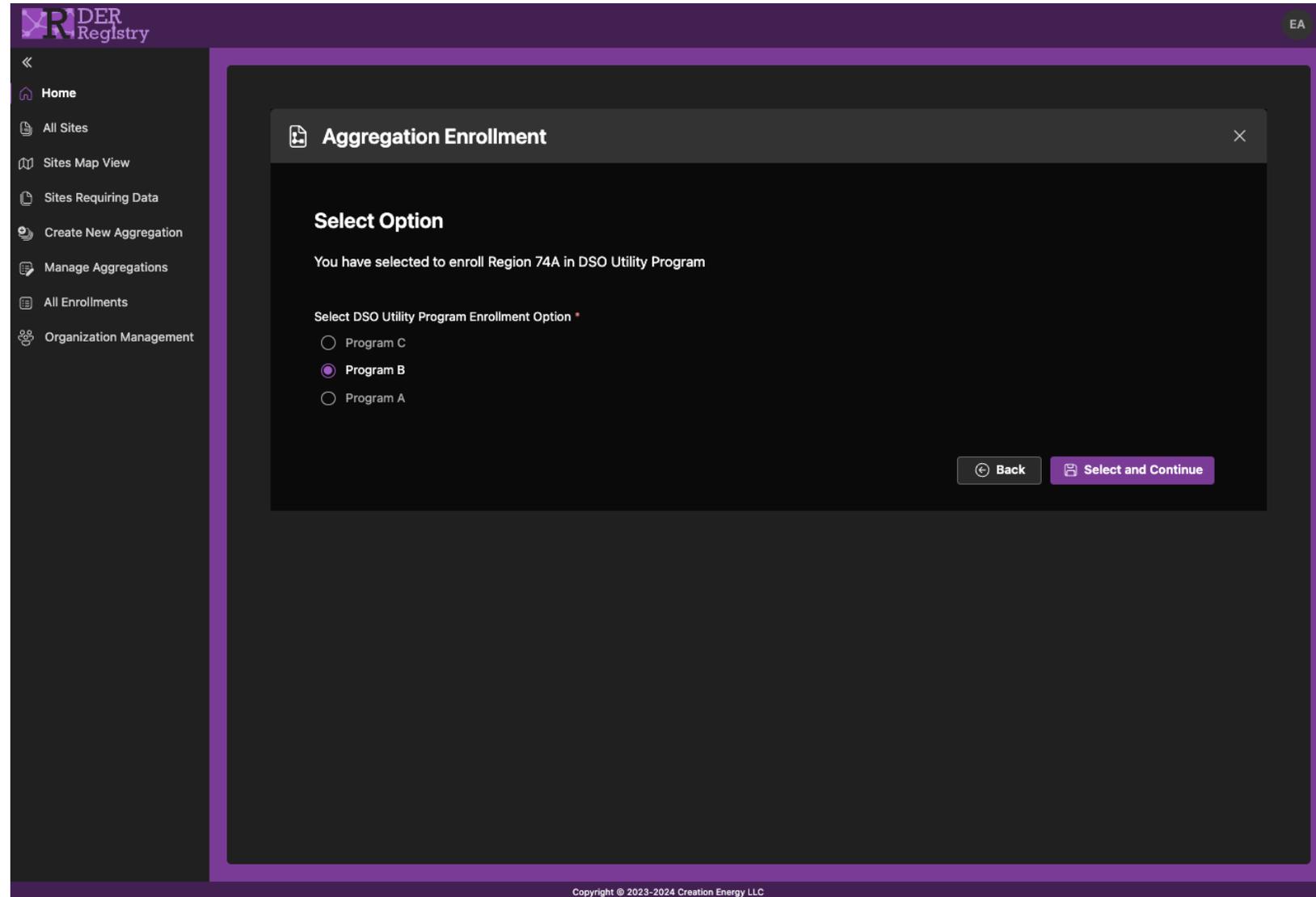
# Aggregation Enrollment

- Registry is designed to allow 'dual registration'
- An aggregation may be enrolled in both a retail utility program and a market product
- A site may be used for ONE utility program and ONE market product
- These slides show DSO Program enrollment, the process is the same for ISO Product enrollment

The screenshot displays the DER Registry web application interface. On the left is a dark sidebar with a navigation menu containing: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area is a modal window titled "Aggregation Enrollment" with a close button (X) in the top right corner. Inside the modal, the heading "Select Enrollment" is followed by the instruction "Please select how you would like to enroll Region 74A". Below this is a section titled "Select Enrollment Type \*" with two radio button options: "ISO Market Product" (unselected) and "DSO Utility Program" (selected). A purple button labeled "Select and Continue" is positioned at the bottom right of the modal. The footer of the application shows the copyright notice: "Copyright © 2023-2024 Creation Energy LLC".

# Aggregation Enrollment

- Aggregation has been selected to enroll in a DSO retail utility program
- CUS works with the utilities to develop a pick list of available programs



# Aggregation Enrollment

- Each program will have specific rules for when an aggregation can begin participation and when participation is concluded and registry will provide guidance
- Aggregator requests start and end date for participation
- This allows aggregator to create as many aggregation enrollments as they would like so they are all ready for entry into the approval process at the appropriate time.

The screenshot shows the 'Aggregation Enrollment' form in the DER Registry system. The form is titled 'Aggregation Enrollment' and includes a close button (X) in the top right corner. Below the title, the section is labeled 'Aggregation Enrollment Dates'. A prompt reads: 'Please enter the begin and end dates for your aggregation enrollment'. There are two date input fields: 'Begin Date for participation \*' with the value '04/01/2024' and 'End Date for participation \*' with the value '03/31/2025'. At the bottom right of the form, there are two buttons: 'Back' and 'Save and Continue'. The left sidebar of the application contains a navigation menu with the following items: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The top right corner of the application has a user profile icon labeled 'EA'. The footer of the application contains the text 'Copyright © 2023-2024 Creation Energy LLC'.

# Aggregation Enrollment

- Lists sites that individual owners have assigned to aggregator
- Sites are filtered by the enrollment choice and begin/end date
- Aggregator select sites from the list for this aggregation enrollment
- All sites shown, but may be greyed out and not selectable if conflicts exist for site

**DER Registry**

EA

Home  
All Sites  
Sites Map View  
Sites Requiring Data  
Create New Aggregation  
Manage Aggregations  
All Enrollments  
Organization Management

### Aggregation Enrollment

Select Sites

Please choose sites to include in this Aggregation Enrollment

Enrollment Choice: DSO Utility Program: Program B

Begin Date for participation: 2024-04-01

End Date for participation: 2025-03-31

Refresh List Map View

<input type="checkbox"/>	Utility Account	Owner Name	Site Capacity	Address	DERs
<input checked="" type="checkbox"/>	100015	Dr. Robin Gerhold	19	14 Miami Ct Naperville, IL 60563	
<input checked="" type="checkbox"/>	100013	Clifford Hintz	19	1607 Aztec Cir Naperville, IL 60563	
<input checked="" type="checkbox"/>	100017	Arnold Muller	19	405 Lampwick Ct Naperville, IL 60563	
<input type="checkbox"/>	100007	Ethel Cassin	19	234 Ketten Dr Naperville, IL 60563	
<input type="checkbox"/>	100019	Marguerite MacGyver	19	560 Braemar Ave Naperville, IL 60563	
<input type="checkbox"/>	100021	Ramiro Hudson	19	465 Menominee Ln Naperville, IL 60563	

Back Select and Continue

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# Aggregation Enrollment

- Confirmation screen of the sites that have been selected to add to this enrollment of the aggregation

**DER Registry** EA

**Aggregation Enrollment**

**Confirm Sites**

Please confirm that these are the sites you wish to include in this Aggregation Enrollment

Enrollment Choice: DSO Utility Program: Program B

Begin Date for participation: 2024-04-01

End Date for participation: 2025-03-31

Refresh List Map View

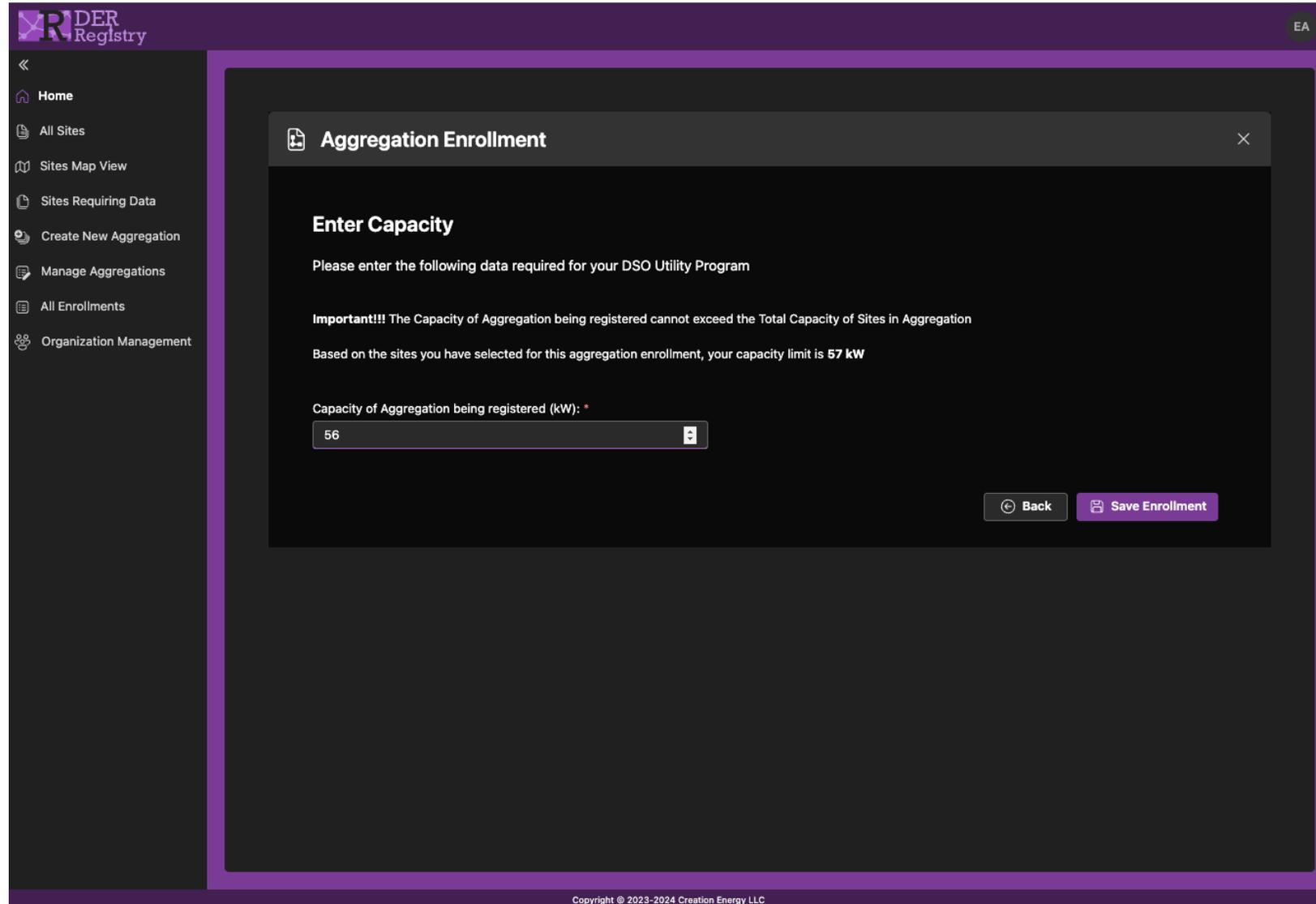
Utility Account	Owner Name	Address	Site Capacity	DERs
100015	Dr. Robin Gerhold	14 Miami Ct Naperville, IL 60563	19	
100013	Clifford Hintz	1607 Aztec Cir Naperville, IL 60563	19	
100017	Arnold Muller	405 Lampwick Ct Naperville, IL 60563	19	

Back Confirm and Continue

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# Aggregation Enrollment

- Each program will require additional specific data entry for enrollment.
- This may include capacity, energy, etc. of the aggregation as required by program
- CUS will work with each utility to enter these requirements for each program



The screenshot shows the 'DER Registry' interface. On the left is a navigation menu with options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area is titled 'Aggregation Enrollment' and contains a form titled 'Enter Capacity'. The form instructs the user to enter data for their DSO Utility Program and includes an important warning: 'Important!!! The Capacity of Aggregation being registered cannot exceed the Total Capacity of Sites in Aggregation'. Below this, it states 'Based on the sites you have selected for this aggregation enrollment, your capacity limit is 57 kW'. A text input field is labeled 'Capacity of Aggregation being registered (kW): \*' and contains the value '56'. At the bottom right of the form are two buttons: 'Back' and 'Save Enrollment'. The footer of the page reads 'Copyright © 2023-2024 Creation Energy LLC'.

# Aggregation Enrollment

- Registry requires confirmation of utility program ‘terms and conditions’ and provides a link to these rules
- CUS works with each utility to provide appropriate links

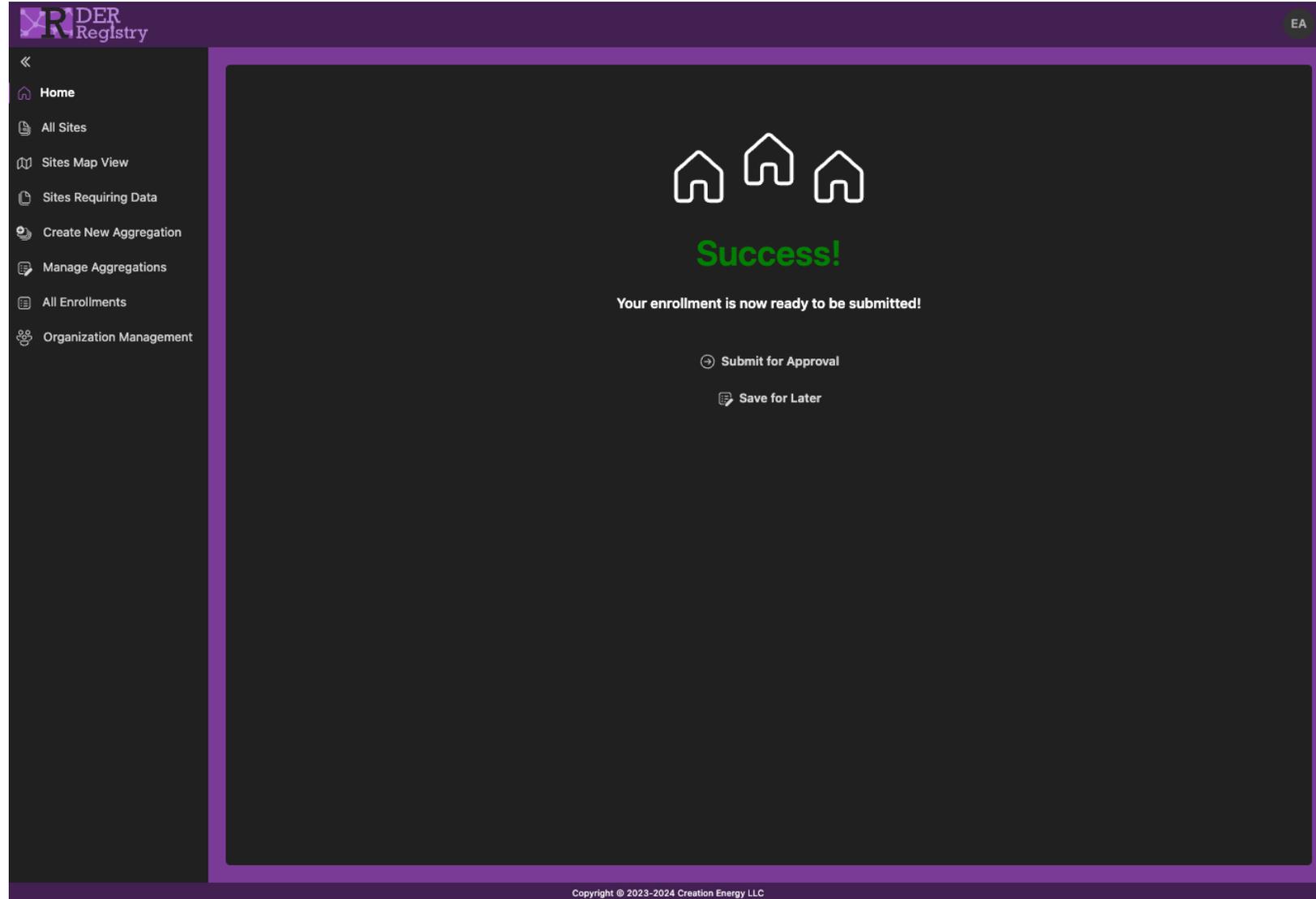
The screenshot displays the 'Review Aggregation Enrollment' interface. On the left is a navigation menu with options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area is titled 'Review Aggregation Enrollment' and includes a prompt: 'Please review the following information and accept the terms of your selected enrollment'. Below this is a table with the following data:

Enrollment	DSO Utility Program
Enrollment Option	Program B
Aggregator	Aggro Gators
Date Created	3/6/2024, 5:09:02 PM
Begin Date for participation	3/31/2024, 8:00:00 PM
End Date for participation	3/30/2025, 8:00:00 PM
Registered Capacity	56
Last Modified	3/6/2024, 5:09:02 PM

Below the table is a link for 'Terms and Conditions' and a checked checkbox with the text: 'I have read and agree to the terms and conditions for this enrollment'. A 'Confirm and Complete' button is located at the bottom right of the main content area. The footer of the page reads: 'Copyright © 2023-2024 Creation Energy LLC'.

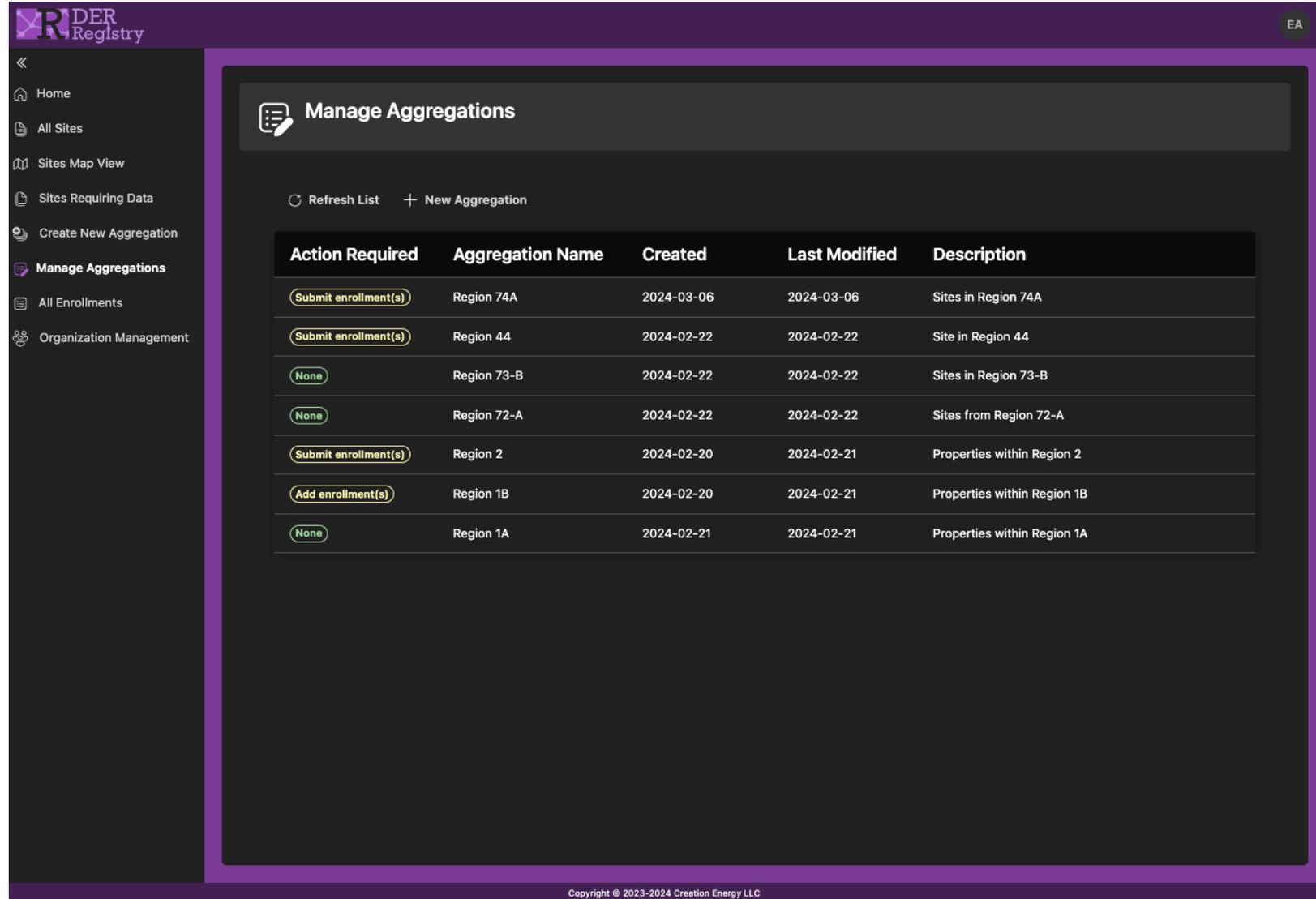
# Aggregation Enrollment

- Confirmation Screen that Aggregation has completed necessary information for enrollment
- Asks user if they would like to submit this aggregation for necessary approvals or save for later



# Manage Aggregations

- Newest Aggregation has an enrollment but the enrollment has not been submitted yet
- Clicking on an aggregation allows Aggregator to view/modify aggregation and enrollments



The screenshot displays the 'Manage Aggregations' page in the DER Registry. The page features a sidebar with navigation options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations (selected), All Enrollments, and Organization Management. The main content area shows a table of aggregations with the following data:

Action Required	Aggregation Name	Created	Last Modified	Description
Submit enrollment(s)	Region 74A	2024-03-06	2024-03-06	Sites in Region 74A
Submit enrollment(s)	Region 44	2024-02-22	2024-02-22	Site in Region 44
None	Region 73-B	2024-02-22	2024-02-22	Sites in Region 73-B
None	Region 72-A	2024-02-22	2024-02-22	Sites from Region 72-A
Submit enrollment(s)	Region 2	2024-02-20	2024-02-21	Properties within Region 2
Add enrollment(s)	Region 1B	2024-02-20	2024-02-21	Properties within Region 1B
None	Region 1A	2024-02-21	2024-02-21	Properties within Region 1A

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# Aggregations Details

- Enrollment can be seen in Aggregation details
- Status shows that it has not been submitted into the approval process yet
- Enrollment can be clicked to see details
- Additional enrollments can be created (new enrollment button)

The screenshot displays the 'Aggregation Details' page for 'Region 74A'. The page features a sidebar on the left with navigation options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area is titled 'Aggregation Details' and includes tabs for 'Aggregation Enrollments', 'Overview', 'History Log', and 'Delete'. Below the tabs, there is a section for 'Enrollments' with a 'Refresh List' button and a '+ New Enrollment' button. A table lists the enrollment details:

Status	Start Time	End Time	Enrollment Type	Capacity	Sites
Awaiting Aggregator Submittal	2024-04-01	2025-03-31	DSO Utility Program: Program B	56 kW	3

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# Aggregation Enrollment Details - Overview

- Once an aggregation enrollment is clicked on, all information for the enrollment is shown and can be edited by Aggregator
- Aggregator is notified if enrollment has not been submitted for approval yet

**DER Registry** EA

## Aggregation Enrollment Details

[Back to Aggregation Details](#)

**Action Required**

- ⚠ **Enrollment Not Submitted**  
To start the approval process for this enrollment please click "Submit For Approval"
- [Submit for Approval](#)

[Overview](#) [Status](#) [Enrolled Sites](#) [History Log](#) [Cancel](#)

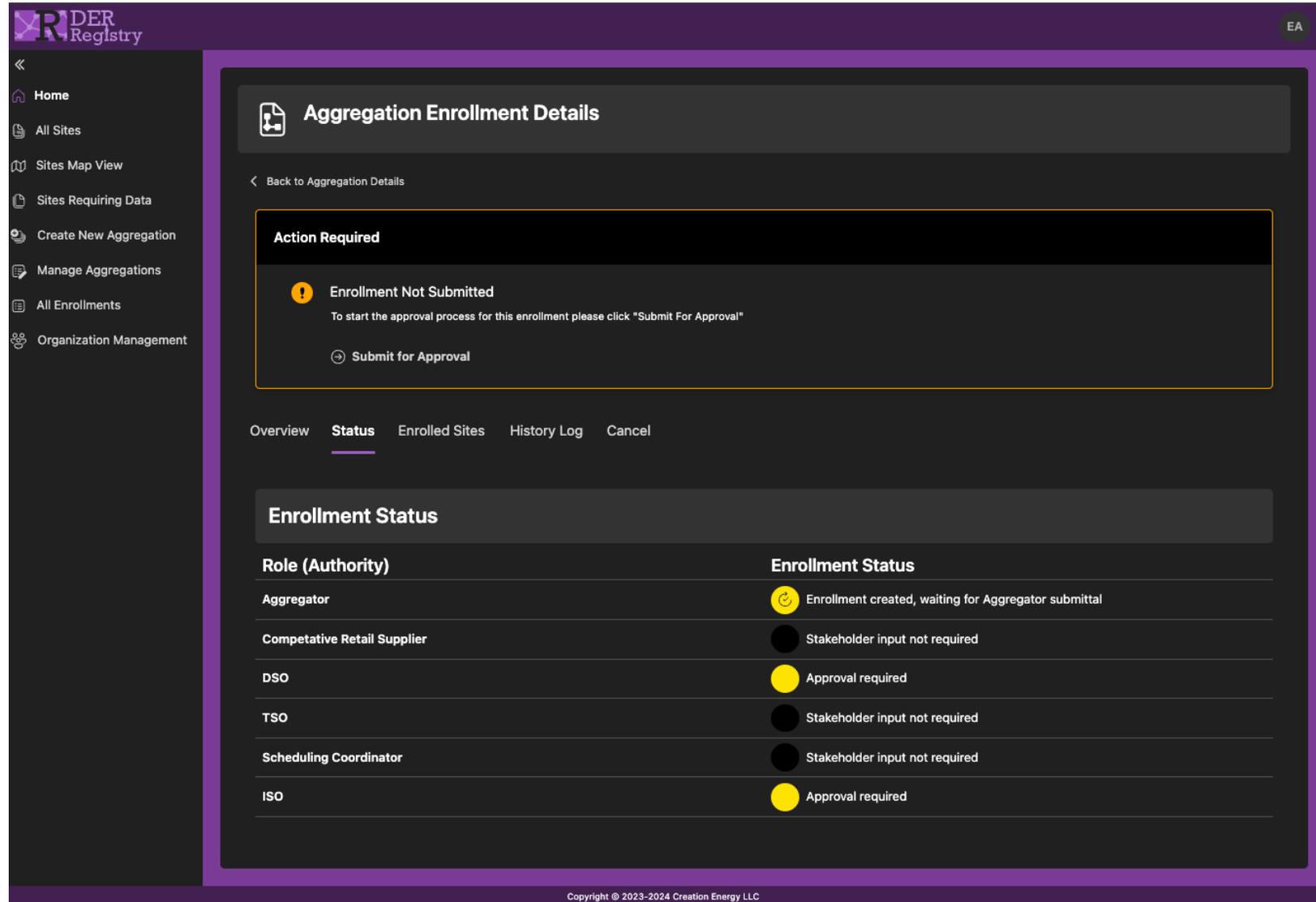
### Overview

Enrollment	DSO Utility Program
Enrollment Option	Program B <a href="#">✎</a>
Aggregator	Aggro Gators
Date Created	3/6/2024, 5:09:02 PM
Begin Date for participation	3/31/2024, 8:00:00 PM <a href="#">✎</a>
End Date for participation	3/30/2025, 8:00:00 PM <a href="#">✎</a>
Registered Capacity	56 <a href="#">✎</a>

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# Aggregation Enrollment Details - Status

- Aggregator can see the status of the enrollment and who is involved in the enrollment approval process
- Here we can see the enrollment has been created but is waiting for Aggregator submittal



**DER Registry** EA

## Aggregation Enrollment Details

[Back to Aggregation Details](#)

**Action Required**

⚠ **Enrollment Not Submitted**  
To start the approval process for this enrollment please click "Submit For Approval"

➔ [Submit for Approval](#)

Overview **Status** Enrolled Sites History Log Cancel

### Enrollment Status

Role (Authority)	Enrollment Status
Aggregator	🕒 Enrollment created, waiting for Aggregator submittal
Competative Retail Supplier	⬤ Stakeholder input not required
DSO	🟡 Approval required
TSO	⬤ Stakeholder input not required
Scheduling Coordinator	⬤ Stakeholder input not required
ISO	🟡 Approval required

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# Aggregation Enrollment Details - Submit

- When 'submit for approval' button in notification is clicked the aggregation enrollment is submitted into the approval process.

The screenshot shows the 'DER Registry' interface. The main heading is 'Aggregation Enrollment Details'. Below the heading are tabs for 'Overview', 'Status', 'Enrolled Sites', 'History Log', and 'Cancel'. The 'Enrolled Sites' tab is active. A 'Success!' modal is displayed in the center, stating 'Aggregation enrollment has been successfully submitted into the approval process' with an 'Ok' button. Below the modal is a table with columns for 'Utility Account' and 'DERs'. The table contains three rows of data.

Utility Account	DERs
100013	19
100015	19
100017	19

# Aggregation Enrollment Details - Status

- Now that the aggregation enrollment has been submitted for approval the status has been updated and no more actions are required from the Aggregator at this stage.
- The next step is DSO approval

The screenshot shows the 'Aggregation Enrollment Details' page in the RDER Registry. The 'Status' tab is active, displaying a table of enrollment statuses for various roles. The table has two columns: 'Role (Authority)' and 'Enrollment Status'.

Role (Authority)	Enrollment Status
Aggregator	Enrollment submitted
Competative Retail Supplier	Stakeholder input not required
DSO	Approval required
TSO	Stakeholder input not required
Scheduling Coordinator	Stakeholder input not required
ISO	Approval required

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# Aggregation Enrollment Details - Status

- Now that the aggregation enrollment has been submitted for approval the status has been updated
- The next step is DSO approval

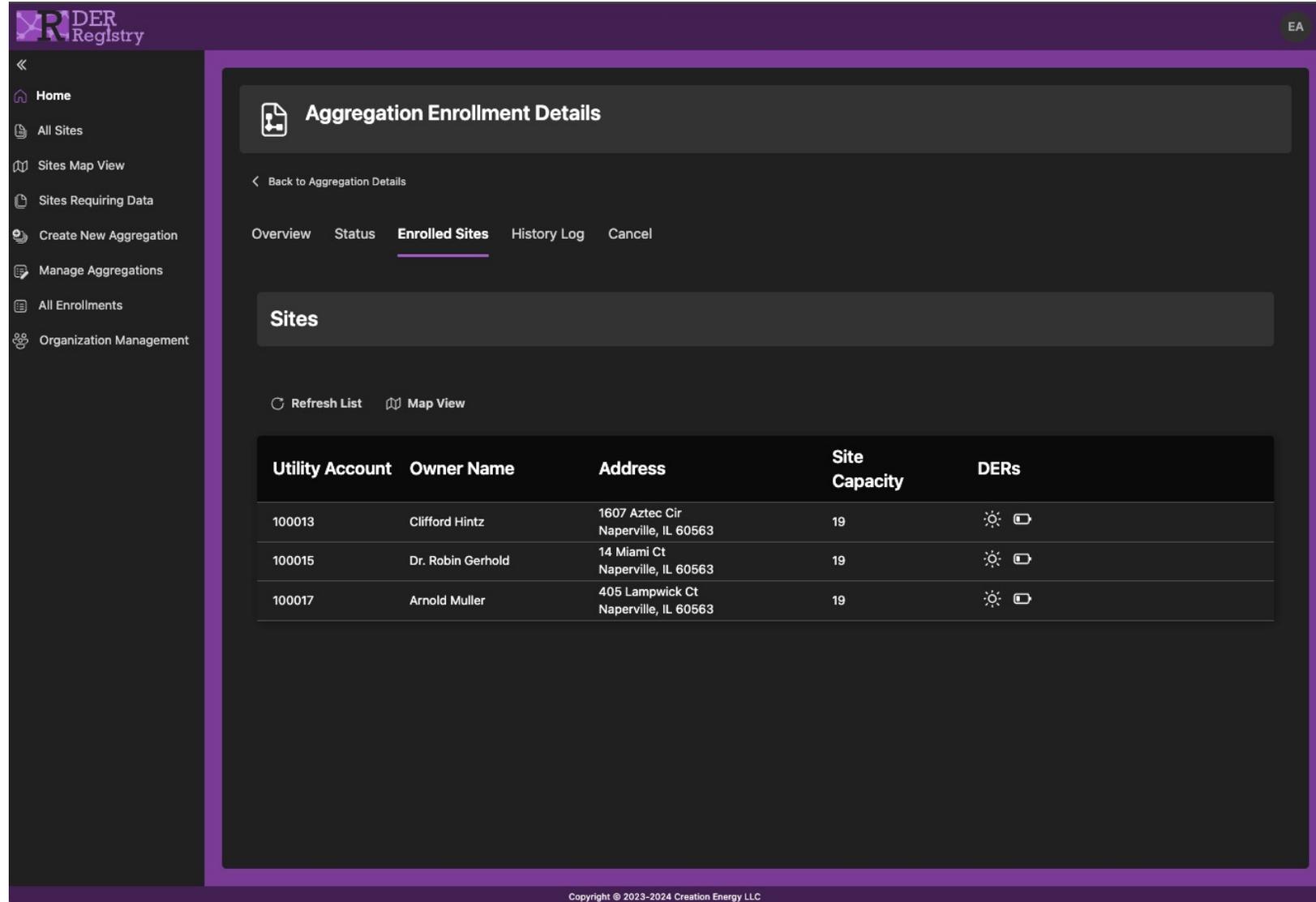
The screenshot shows the DER Registry interface. On the left is a navigation sidebar with options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area is titled 'Aggregation Details' for 'Region 74A'. It includes tabs for 'Aggregation Enrollments', 'Overview', 'History Log', and 'Delete'. Below this is an 'Enrollments' section with a sub-header 'Click on an enrollment below to see the enrollment details and participating sites'. There are 'Refresh List' and 'New Enrollment' buttons. A table displays one enrollment record:

Status	Start Time	End Time	Enrollment Type	Capacity	Sites
Pending DSO Approval	2024-04-01	2025-03-31	DSO Utility Program: Program B	56 kW	3

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# Aggregation Enrollment Details - Sites

- At any point, the Aggregator can see and edit sites that are in the enrollment
- Note: Rules for add/deletion of sites to existing aggregation are not yet developed. Per program or product rules, we expect some changes for existing aggregations that are already enrolled may require the aggregation to be submitted into approval process again and some changes may not require aggregation to move through the entire approval process again.



The screenshot displays the DER Registry interface. The left sidebar contains navigation options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area is titled 'Aggregation Enrollment Details' and includes a 'Back to Aggregation Details' link. Below this are tabs for Overview, Status, Enrolled Sites (selected), History Log, and Cancel. A 'Sites' section contains a 'Refresh List' button and a 'Map View' button. A table lists three enrolled sites with columns for Utility Account, Owner Name, Address, Site Capacity, and DERs.

Utility Account	Owner Name	Address	Site Capacity	DERs
100013	Clifford Hintz	1607 Aztec Cir Naperville, IL 60563	19	☀️ 🗄️
100015	Dr. Robin Gerhold	14 Miami Ct Naperville, IL 60563	19	☀️ 🗄️
100017	Arnold Muller	405 Lampwick Ct Naperville, IL 60563	19	☀️ 🗄️

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# Aggregation Enrollment Details – Site Details

- Each site in the enrollment can be clicked on to view details of that site

The screenshot displays the DER Registry interface. On the left is a navigation sidebar with options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area shows 'Aggregation Enrollment' with tabs for Overview, Status, and Enrolled Sites. Under 'Enrolled Sites', there is a table with columns 'Utility Account' and 'Owner Name'.

Utility Account	Owner Name
100013	Clifford Hintz
100015	Dr. Robin Gerholz
100017	Arnold Muller

Below the table are 'Refresh List' and 'Map View' buttons. A 'Site Overview' modal is open on the right, showing details for a site record.

**Site Overview**  
Overview of site record

**Site**

Version	4
Lifecycle Stage	Active
Created	2/20/2024, 10:36:45 AM
Modified	2/22/2024, 11:26:49 AM

**Modified By**

ID	DER Registry Map Thumbnail Service
Organization ID	DER Registry
Geographic Location	-88.144418004967, 41.798000019881
Thumbnail Image	Show

**Assignments**

Owner	unknown
Agent	ABC Electric
Retail Electric Provider	Not Specified
Aggregator	Aggro Gators
Demand Response Aggregator	Not Specified
Distribution Utility	Bright Peak Energy
Transmission Utility	Not Specified

# Aggregation Enrollment Details – History Log

- Each aggregation enrollment has a detailed log of events and contributors

The screenshot displays the DER Registry interface. On the left is a dark sidebar with navigation options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area is titled 'Aggregation Enrollment Details' and includes a 'Back to Aggregation Details' link. Below this are tabs for Overview, Status, Enrolled Sites, History Log (which is active), and Cancel. The History Log section contains a table with three columns: Event, Contributor, and Time. The table lists three events, each with a link to 'Commitment Outcomes'. The first event is from 'Emily Aikens @ Aggro Gators' at 7:54:58 PM. The second is from 'DER Registry Committer Service' at 5:09:05 PM. The third is from 'Emily Aikens @ Aggro Gators' at 5:09:02 PM. The third event's 'Event' cell contains several sub-links: Assignments, Registered Capacity (kW), Start Time, End Time, Commitment Targets, GridObjective ID, and Aggregation. The bottom of the page features a copyright notice: 'Copyright © 2023-2024 Creation Energy LLC'.

Event	Contributor	Time
<a href="#">Commitment Outcomes</a>	<a href="#">Emily Aikens @ Aggro Gators</a>	3/6/2024, 7:54:58 PM
<a href="#">Commitment Outcomes</a>	<a href="#">DER Registry Committer Service</a>	3/6/2024, 5:09:05 PM
<a href="#">Assignments</a> <a href="#">Registered Capacity (kW)</a> <a href="#">Start Time</a> <a href="#">End Time</a> <a href="#">Commitment Targets</a> <a href="#">GridObjective ID</a> <a href="#">Aggregation</a>	<a href="#">Emily Aikens @ Aggro Gators</a>	3/6/2024, 5:09:02 PM

# Aggregation Enrollment Details - Cancel

- An existing aggregation can be cancelled by an Aggregator
- Rules around enrollment cancellation can be customized

The screenshot shows the DER Registry interface. The left sidebar contains navigation options: Home, All Sites, Sites Map View, Sites Requiring Data, Create New Aggregation, Manage Aggregations, All Enrollments, and Organization Management. The main content area is titled 'Aggregation Enrollment Details' and has a breadcrumb trail: < Back to Aggregation Details. Below the title are tabs for Overview, Status, Enrolled Sites, History Log, and Cancel (which is currently selected). A red-bordered box highlights a confirmation message: 'Are you sure you want to cancel enrollment? Important: this action cannot be undone!'. Below this message is a 'Cancel Enrollment' button. A modal dialog is open, titled 'Cancel Enrollment?' with the text 'Are you sure you want to cancel enrollment? This action cannot be undone.' and two buttons: 'Back' and 'Cancel Enrollment'.

# Manage All Enrollments

- An Aggregation Enrollment can be accessed through the aggregation it is part of
- An Aggregation Enrollment can ALSO be accessed through the 'All Enrollments' tab
- Each can be clicked for details
- This is a list of all enrollments in all aggregations that this Aggregator is responsible for

DER Registry

EA

All Aggregation Enrollments

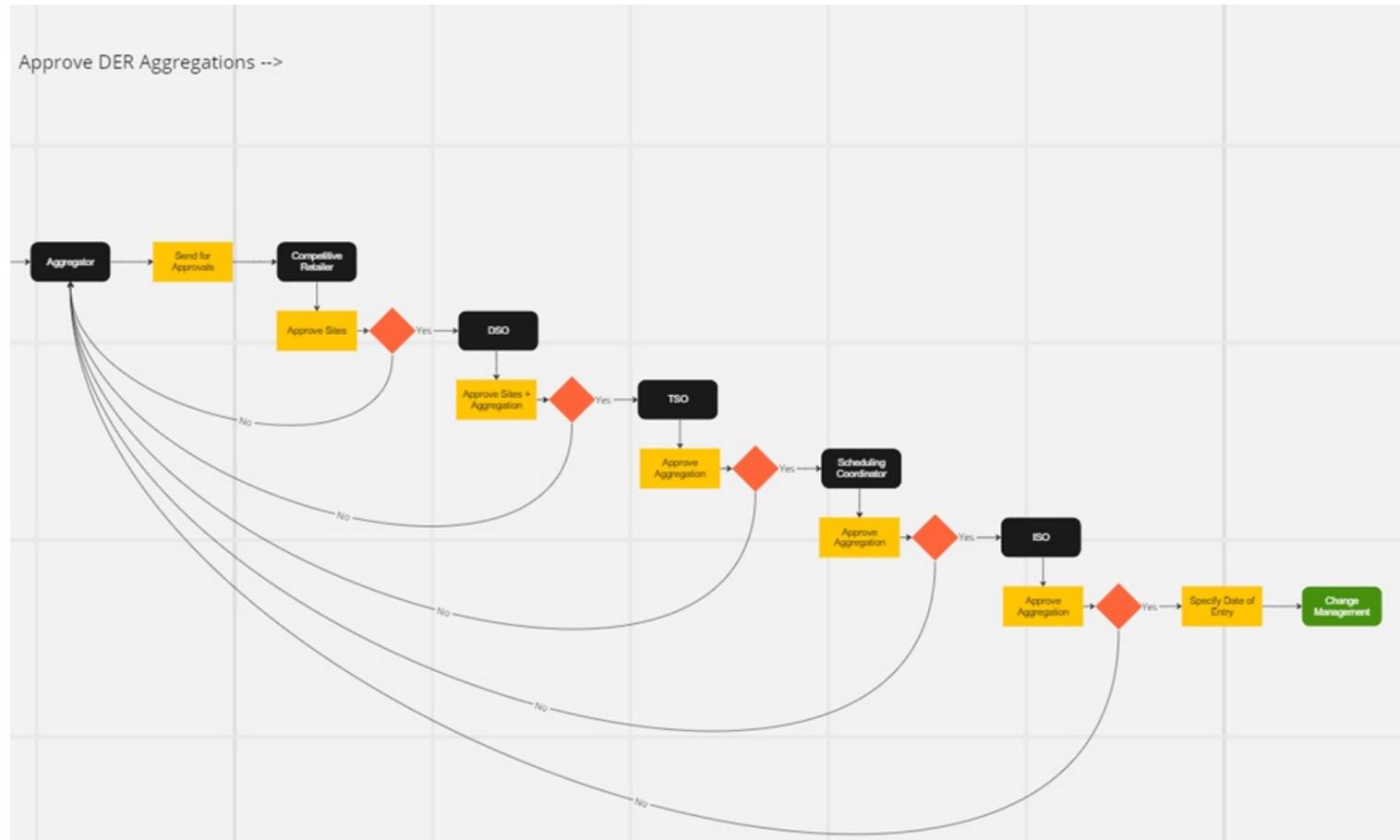
Refresh List

Status	Start Time	End Time	Enrollment Type	Capacity	Sites
Pending DSO Approval	2024-04-01	2025-03-31	DSO Utility Program: Program B	56 kW	3
Pending DSO Approval	2024-03-08	2024-03-29	ISO Market Product: Product 3	18 kW	1
Awaiting Aggregator Submittal	2024-02-29	2024-03-30	DSO Utility Program: Program B	37 kW	2
Pending DSO Approval	2024-02-16	2024-03-06	DSO Utility Program: Program B	70 kW	4
Pending DSO Approval	2024-02-23	2024-03-06	DSO Utility Program: Program A	70 kW	4
Pending DSO Approval	2024-02-15	2024-03-09	DSO Utility Program: Program B	37 kW	2
Approved	2024-05-01	2024-07-01	DSO Utility Program: Program B	70 kW	5
Approved	2024-03-01	2024-04-01	DSO Utility Program: Program C	50 kW	3
Approved	2024-03-01	2024-03-31	DSO Utility Program: Program C	10 kW	1
Pending DSO Approval	2024-02-15	2024-02-27	DSO Utility Program: Program A	17 kW	1
Pending DSO Approval	2024-03-22	2024-03-31	DSO Utility Program: Program C	80 kW	5
Rejected	2024-03-01	2024-03-31	DSO Utility Program: Program B	87 kW	5
Awaiting Aggregator Submittal	2024-03-01	2024-03-31	DSO Utility Program: Program A	80 kW	5
Pending DSO Approval	2024-03-01	2024-03-31	DSO Utility Program: Program C	80 kW	5
Pending ISO-RTO Approval	2024-03-01	2024-03-28	DSO Utility Program: Program B	80 kW	5

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# Approval Process

- Each Utility or ISO will have a defined approval process. The process flow describes a variety of potential personas that could be required in this process
- CUS will work with each utility and ISO to implement their required approval process
- Date/Time/Login captured for each persona in approval process
- Each persona has ability to track where aggregation is in the approval process
- Can 'time-bound' each approver if required



# DSO Home Page

- When DSO logs in they are notified if there are unverified aggregation enrollments that they must review

**DER Registry**

Home

All Sites

Unverified Sites

DSO Data Entry

Approved Sites

Sites Map View

Rejected Sites

Aggregations Pending DSO

All Aggregations

Bulk Data Upload

Organization Management

**Home**

**Welcome, Emily Beeson**

You are signed in as a Administrator for Bright Peak Energy

**Required Actions**

- Unverified Sites** >  
You have 40 unverified sites that need to be verified by a DSO
- DSO Required Data Entry** >  
You have 3 verified sites that need additional data from a DSO
- Unverified Aggregations** >  
You have 7 aggregations that need to be reviewed by a DSO

**Bright Peak Energy**

Role: **DSO**

Participation: **Member**

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# Approval of Aggregation Enrollment by DSO

- Unverified aggregation enrollments can be accessed through the home notification or by clicking on the 'Aggregations Pending DSO' tab

**DER Registry**

**Aggregations Pending DSO Approval**  
These aggregations require review by a DSO. Click on an aggregation to review details.

Refresh List

Status	Start Time	End Time	Enrollment Type	Capacity	Sites
Pending DSO Approval	2024-04-01	2025-03-31	DSO Utility Program: Program B	56 kW	3
Pending DSO Approval	2024-02-16	2024-03-06	DSO Utility Program: Program B	70 kW	4
Pending DSO Approval	2024-02-23	2024-03-06	DSO Utility Program: Program A	70 kW	4
Pending DSO Approval	2024-02-15	2024-03-09	DSO Utility Program: Program B	37 kW	2
Pending DSO Approval	2024-02-15	2024-02-27	DSO Utility Program: Program A	17 kW	1
Pending DSO Approval	2024-03-22	2024-03-31	DSO Utility Program: Program C	80 kW	5
Pending DSO Approval	2024-03-01	2024-03-31	DSO Utility Program: Program C	80 kW	5

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# Approval of Aggregation Enrollment by DSO

- Unverified aggregation enrollments can also be seen by clicking on the 'All Aggregations' Tab and filtering by status

DER Registry

Home  
All Sites  
Unverified Sites  
DSO Data Entry  
Approved Sites  
Sites Map View  
Rejected Sites  
Aggregations Pending DSO  
All Aggregations  
Bulk Data Upload  
Organization Management

### All Aggregation Enrollments

Refresh List

Status	Start Time	End Time	Enrollment Type	Capacity	Sites
Pending DSO Approval	2024-04-01	2025-03-31	DSO Utility Program: Program B	56 kW	3
Awaiting Aggregator Submittal	2024-02-29	2024-03-30	DSO Utility Program: Program B	37 kW	2
Pending DSO Approval	2024-02-16	2024-03-06	DSO Utility Program: Program B	70 kW	4
Pending DSO Approval	2024-02-23	2024-03-06	DSO Utility Program: Program A	70 kW	4
Pending DSO Approval	2024-02-15	2024-03-09	DSO Utility Program: Program B	37 kW	2
Approved	2024-05-01	2024-07-01	DSO Utility Program: Program B	70 kW	5
Approved	2024-03-01	2024-04-01	DSO Utility Program: Program C	50 kW	3
Approved	2024-03-01	2024-03-31	DSO Utility Program: Program C	10 kW	1
Pending DSO Approval	2024-02-15	2024-02-27	DSO Utility Program: Program A	17 kW	1
Pending DSO Approval	2024-03-22	2024-03-31	DSO Utility Program: Program C	80 kW	5
Rejected	2024-03-01	2024-03-31	DSO Utility Program: Program B	87 kW	5
Awaiting Aggregator Submittal	2024-03-01	2024-03-31	DSO Utility Program: Program A	80 kW	5
Pending DSO Approval	2024-03-01	2024-03-31	DSO Utility Program: Program C	80 kW	5
Pending ISO-RTO Approval	2024-03-01	2024-03-28	DSO Utility Program: Program B	80 kW	5
Approved	2024-03-01	2024-03-31	DSO Utility Program: Program A	70 kW	5

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# Approval of Aggregation Enrollment by DSO

- When DSO clicks on an aggregation enrollment they can see the details
- This one has not been approved or rejected yet so there is a notification that it needs DSO review

The screenshot displays the RDER Registry interface. The left sidebar contains navigation options: Home, All Sites, Unverified Sites, DSO Data Entry, Approved Sites, Sites Map View, Rejected Sites, Aggregations Pending DSO, All Aggregations, Bulk Data Upload, and Organization Management. The main content area is titled 'Aggregation Enrollment Details' and includes a 'Back to Aggregations' link. A prominent 'Action Required' box contains a 'DSO Review' notification: 'This aggregation is awaiting review from an DSO'. Below this, there are three buttons: 'Approve', 'Reject', and 'Conditional Approval'. The 'Overview' section is active, showing a table with the following details:

Overview	
Enrollment	DSO Utility Program
Enrollment Option	Program B
Aggregator	Aggro Gators
Date Created	3/6/2024, 5:09:02 PM
Begin Date for participation	3/31/2024, 8:00:00 PM
End Date for participation	3/30/2025, 8:00:00 PM
Registered Capacity	56

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# Approval of Aggregation Enrollment by DSO

- DSO can see the overview, status, enrolled sites, and history log.
- They cannot, however, edit the aggregation enrollment; they can only approve or reject it.

The screenshot shows the 'Aggregation Enrollment Details' page in the DER Registry application. The page is divided into a sidebar and a main content area. The sidebar contains navigation links: Home, All Sites, Unverified Sites, DSO Data Entry, Approved Sites, Sites Map View, Rejected Sites, Aggregations Pending DSO, All Aggregations, Bulk Data Upload, and Organization Management. The main content area has a header 'Aggregation Enrollment Details' and a sub-header 'Enrolled Sites'. Below this is a table of sites.

Utility Account	Owner Name	Address	Site Capacity	DERs
100013	Clifford Hintz	1607 Aztec Cir Naperville, IL 60563	19	 
100015	Dr. Robin Gerhold	14 Miami Ct Naperville, IL 60563	19	 
100017	Arnold Muller	405 Lampwick Ct Naperville, IL 60563	19	 

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# Approval of Aggregation Enrollment by DSO

- DSO can approve aggregation enrollment

The screenshot shows the DER Registry interface. On the left is a navigation sidebar with options: Home, All Sites, Unverified Sites, DSO Data Entry, Approved Sites, Sites Map View, Rejected Sites, Aggregations Pending DSO, All Aggregations, Bulk Data Upload, and Organization Management. The main content area is titled 'Aggregation Enrollment Details' and includes a 'Back to Aggregations' link. A yellow-bordered box highlights an 'Action Required' section with a 'DSO Review' warning icon and the text 'This aggregation is awaiting review from an DSO'. Below this are three buttons: 'Approve', 'Reject', and 'Conditional Approval'. A modal dialog box titled 'Confirm Approve?' is open, asking 'Are you sure you want to approve this aggregation enrollment?' with 'Cancel' and 'Approve' buttons. Below the dialog is an 'Overview' section with a table of details:

Overview	
Enrollment	DSO Utility Program
Enrollment Option	Program B
Aggregator	Aggro Gators
Date Created	3/6/2024, 5:09:02 PM
Begin Date for participation	3/31/2024, 8:00:00 PM
End Date for participation	3/30/2025, 8:00:00 PM
Registered Capacity	56

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# Approval of Aggregation Enrollment by DSO

- DSO can reject an aggregation enrollment
- DSO is required to provide a reason for the rejection
- CUS will work with utility for list of 'reasons' an aggregation may be rejected
- A DSO can reject a single site in an aggregation or the entire aggregation

The screenshot displays the RDER Registry interface. On the left is a navigation menu with items: Home, All Sites, Unverified Sites, DSO Data Entry, Approved Sites, Sites Map View, Rejected Sites, Aggregations Pending DSO, All Aggregations, Bulk Data Upload, and Organization Management. The main content area is titled 'Aggregation Enrollment Details' and shows a 'DSO Review' status with a warning icon and the message 'This aggregation is awaiting review from an DSO'. Below this, there are 'Approve' and 'Reject' buttons. A modal dialog box titled 'Reject Aggregation Enrollment?' is open, asking for a reason for rejection. The dialog includes a text input field labeled 'Reason for rejection:' and 'Cancel' and 'Reject' buttons. Below the dialog, an 'Overview' section shows a table of enrollment details:

Field	Value
Enrollment	DSO Utility Program
Enrollment Option	Program B
Aggregator	Aggro Gators
Date Created	3/6/2024, 5:09:02 PM
Begin Date for participation	3/31/2024, 8:00:00 PM
End Date for participation	3/30/2025, 8:00:00 PM
Registered Capacity	56

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# Approval of Aggregation Enrollment by DSO

- DSO can conditionally approve an aggregation enrollment
- A reason must be provided
- CUS will work with utility for list of 'reasons' an aggregation may be conditionally accepted
- A DSO can reject a single site in an aggregation or the entire aggregation

The screenshot displays the 'DER Registry' interface. On the left is a navigation sidebar with options like Home, All Sites, Unverified Sites, DSO Data Entry, Approved Sites, Sites Map View, Rejected Sites, Aggregations Pending DSO, All Aggregations, Bulk Data Upload, and Organization Management. The main content area is titled 'Aggregation Enrollment Details' and includes a 'Back to Aggregations' link. A yellow-bordered box highlights an 'Action Required' section with a 'DSO Review' warning icon and the text 'This aggregation is awaiting review from an DSO'. Below this, there are 'Approve' and 'Conditionally Approve' buttons. A modal dialog is open over the 'Conditionally Approve' button, titled 'Conditionally Approve Aggregation Enrollment?'. The dialog contains the text: 'To continue, please provide the condition(s) required for this aggregation enrollment to be approved:' followed by a text input field labeled 'Approval condition(s): \*'. At the bottom of the dialog are 'Cancel' and 'Conditionally Approve' buttons. Below the dialog, the 'Overview' tab is active, showing a table of enrollment details:

Enrollment	DSO Utility Program
Enrollment Option	Program B
Aggregator	Aggro Gators
Date Created	3/6/2024, 5:09:02 PM
Begin Date for participation	3/31/2024, 8:00:00 PM
End Date for participation	3/30/2025, 8:00:00 PM
Registered Capacity	56

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# Approval of Aggregation Enrollment by DSO

- Once the DSO has approved an aggregation enrollment, it is now in the next step of the approval chain. In this case, the ISO must review it next.

The screenshot shows the 'DER Registry' interface. The main content area is titled 'Aggregation Enrollment Details' and includes a navigation menu with 'Overview', 'Status', 'Enrolled Sites', and 'History Log'. The 'Status' tab is active, displaying a table of enrollment statuses for different roles.

Role (Authority)	Enrollment Status
Aggregator	Enrollment submitted
Competative Retail Supplier	Stakeholder input not required
DSO	Approved
TSO	Stakeholder input not required
Scheduling Coordinator	Stakeholder input not required
ISO	Approval required

# Approval of Aggregation Enrollment by DSO

- Once the DSO has approved an aggregation enrollment, it is now in the next step of the approval chain. In this case, the ISO (see status of top aggregation enrollment)

The screenshot displays the 'All Aggregation Enrollments' page in the DER Registry. The page features a sidebar with navigation options and a main content area with a table of enrollment data. The table includes columns for Status, Start Time, End Time, Enrollment Type, Capacity, and Sites. The data is as follows:

Status	Start Time	End Time	Enrollment Type	Capacity	Sites
Pending ISO-RTO Approval	2024-04-01	2025-03-31	DSO Utility Program: Program B	56 kW	3
Awaiting Aggregator Submittal	2024-02-29	2024-03-30	DSO Utility Program: Program B	37 kW	2
Pending DSO Approval	2024-02-16	2024-03-06	DSO Utility Program: Program B	70 kW	4
Pending DSO Approval	2024-02-23	2024-03-06	DSO Utility Program: Program A	70 kW	4
Pending DSO Approval	2024-02-15	2024-03-09	DSO Utility Program: Program B	37 kW	2
Approved	2024-05-01	2024-07-01	DSO Utility Program: Program B	70 kW	5
Approved	2024-03-01	2024-04-01	DSO Utility Program: Program C	50 kW	3
Approved	2024-03-01	2024-03-31	DSO Utility Program: Program C	10 kW	1
Pending DSO Approval	2024-02-15	2024-02-27	DSO Utility Program: Program A	17 kW	1
Pending DSO Approval	2024-03-22	2024-03-31	DSO Utility Program: Program C	80 kW	5
Rejected	2024-03-01	2024-03-31	DSO Utility Program: Program B	87 kW	5
Awaiting Aggregator Submittal	2024-03-01	2024-03-31	DSO Utility Program: Program A	80 kW	5
Pending DSO Approval	2024-03-01	2024-03-31	DSO Utility Program: Program C	80 kW	5
Pending ISO-RTO Approval	2024-03-01	2024-03-28	DSO Utility Program: Program B	80 kW	5
Approved	2024-03-01	2024-03-31	DSO Utility Program: Program A	70 kW	5

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# Approval of Aggregation Enrollment by ISO

- The ISO approval process looks the same as the DSO approval process.
- Once the ISO has approved the aggregation enrollment as well, the enrollment is then “approved”
- If more stakeholders were required in the approval process, they would all need to approve the aggregation enrollment before it could be considered “approved”

The screenshot shows the 'DER Registry' interface. The main content area is titled 'Aggregation Enrollment Details' and includes a navigation menu with 'Overview', 'Status', 'Enrolled Sites', and 'History Log'. The 'Status' tab is active, displaying a table of enrollment statuses for different roles.

Role (Authority)	Enrollment Status
Aggregator	Approved
Competative Retail Supplier	Stakeholder input not required
DSO	Approved
TSO	Stakeholder input not required
Scheduling Coordinator	Stakeholder input not required
ISO	Approved

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# Notifications and Tracking

- Once an Aggregation is submitted into the approval process, the Aggregator can track where the aggregation is currently at in the approval process with each required persona
- Everyone in the approval process chain is notified a new aggregation has been submitted and they have the ability to preview anything that is coming their way.
- Tracking screen shows date/time each persona received and approved/rejected
- A rejection requires Aggregator to resubmit for approval after fixing any required parameters for the aggregation
- Conditional Approval requires aggregator to accept condition, and make any required changes to aggregation, before it continues forward in the approval process.
- The registry has the ability to provide notifications for required deadlines for approval if there is a defined clock for the review
- The registry will provide notification to the aggregator and premise owner via their portal when their aggregation or site has been approved into a utility program or market product