

gridtwin

SOFTWARE FOR RENEWABLES INTERCONNECTION

User Guide and Training
Material



User Guide: Table of Contents

1. Gridtwin Software Overview
2. User Guide
 1. Account Creation
 2. Log in
 3. Project Home Page
 4. Mapping Tools for Interconnection
 5. Automated Interconnection Estimate
 6. Searchable Parcel Database
3. Additional Support



gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

gridtv
Change the way you generator intercon

My Account
My Organization
Reports
Pipelines
Circuit Analysis
Help and Support
About
Jobs
Contact
Report an issue

1

Additional Support and Help:

1. To access additional help material, navigate to 'More' -> 'Help and Support' from the top menu bar
2. From this page, you can view additional documentation regarding Gridtwin software

Complex Models. Simple Software.

Simplify Interconnection

- Search for ideal project sites
- Map out project details
- Share results with your team
- Run automated interconnection analysis

https://gridtwin.energy/help_support/

Gridtwin software encompasses three types specific toolsets:



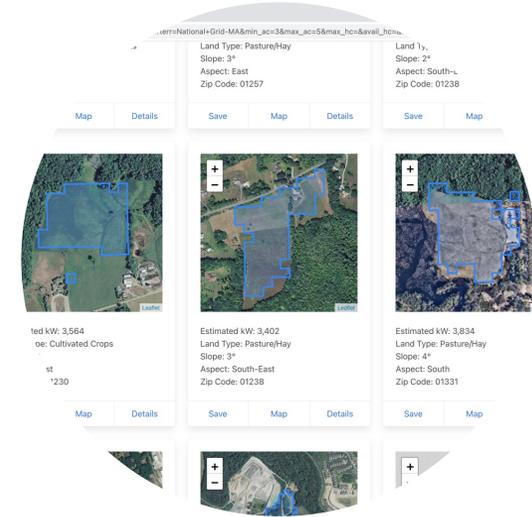
Map:

View feeders, substations, and other information on a maps interface



Interconnection:

Estimate the interconnection impact and cost for a solar project



Search:

Search for parcels of land based on hosting capacity, project size, substation, or other characteristics

Home - gridtwin

gridtwin.com 1

gridtwin Home My Projects Search Map More

Sign up 2 Log in

gridtwin

Change the way you manage generator interconnection.

gridtwin

Utility
ISO/RTD
Existing Solar
Wetlands
Brownfield
Environmental
Conservation
Open Area
Saved Projects
3P Distribution
Substations
Transmission
Stress
Service
Outside

New PV Project

Project Name
Gridtwin Farms

Capacity (MW)
4.8

Save & Edit Save

Account Creation:

1. Navigate to: gridtwin.com
2. Select 'Sign Up' in the upper right corner

Map - gridtwin

gridtwin.energy/maps/explore_map?x=-76.22849040344286&y=43.004499...

gridtwin

Search

Utility
ISO/RTD
Existing Solar
Wetlands
Brownfield
Environmental
Conservation
Open Area
Saved Projects
3P Distribution
Substations
Transmission

Complex Models. Simple Software.

Simplify Interconnection

- Search for ideal project sites
- Map out project details
- Share results with your team





gridtwin

Sign up with a new account

Email

1 demo_utility@gridtwin.energy

Password

2

- ✓ Password must contain a lower case letter
- ✓ Password must contain an upper case letter
- ✓ Password must contain a special character
- ✓ Password must contain a number
- ✓ Password must contain at least 8 characters

3 **Sign up**

Already have an account? [Sign in](#)

Account Creation:

1. Sign-up with your email address
2. Choose a password
3. Select 'Sign up'
4. You will receive a verification code via email
5. This code must be used to verify your email address
6. After verifying your email address, you will proceed to additional account creation steps



My Account - gridtwin

https://gridtwin.energy/auth/new_account

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

REGISTRATION

- My Profile
- Organization
 - Join Organization
 - New Organization
- Terms of Service

Your Profile

This information will be visible to members of your team and others.

Information has already been input for this email address. Please confirm or adjust any information as needed.

Email

demo_utility@gridtwin.energy

1 **First Name**

Last Name

Job Title

2 Next

Software
[For Developers](#)
[Help and Support](#)

Resources
[My Projects](#)
[Search](#)
[Maps](#)

Company
[About](#)
[Jobs](#)
[Report an Issue](#)

Contact: info@gridtwin.energy

Account Creation:

1. Input your first name, last name, and job title
2. Click 'Next'

The screenshot shows a web browser window with the URL https://gridtwin.energy/auth/join_org. The page title is "Join an Organization". A message at the top states: "Your username matches similar users in this organization. Submit a request to the admin to join." Below this is a table with columns: Organization, Admin, Admin Email, and Send Request. The table lists three entries for "Gridtwin Energy" with different admin emails. A "New Organization" button is located at the bottom of the main content area. The footer contains links for Software, Resources, and Company, along with a contact email.

Organization	Admin	Admin Email	Send Request
Gridtwin Energy	Julia Wiseman	julia@gridtwin.energy	Send Request
Gridtwin Energy	Matt Brusnahan	matt@gridtwin.energy	Send Request
Gridtwin Energy	Developer Demo	demo_developer@gridtwin.energy	Send Request

If you would like to create a new organization, select create new organization below.

[New Organization](#)

Software
[For Developers](#)
[Help and Support](#)

Resources
[My Projects](#)
[Search](#)
[Maps](#)

Company
[About](#)
[Jobs](#)
[Report an Issue](#)

Contact: info@gridtwin.energy

Account Creation:

1. If other members of your organization have already joined, you can request to join their organization: teammates within the same organization can access one another's projects
2. Click 'Send Request' to notify your team member via email that you would like to join the organization
3. Note that you can only join organizations which share your email address. For example, `matt@gridtwin.energy` can only join organizations which share the email domain 'gridtwin.energy'
4. If you do not want to join an existing organization, click 'New Organization'

My Organization - gridtwin

https://gridtwin.energy/auth/join_org

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

Join an Organization

Your request to join an organization is pending approval from the admin.

Organization	Role	Status	Cancel
Gridtwin Energy	member	pending	Cancel

If you would like to create a new organization, select create new organization below.

New Organization

REGISTRATION

- My Profile
- Organization
 - Join Organization
 - New Organization
- Terms of Service

Software
[For Developers](#)
[Help and Support](#)

Resources
[My Projects](#)
[Search](#)
[Maps](#)

Company
[About](#)
[Jobs](#)
[Report an Issue](#)

Contact: info@gridtwin.energy

Account Creation:

1. After submitting an invite request, your organization admin will need to confirm your invite

My Organization - gridtwin

https://gridtwin.energy/auth/new_org

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

REGISTRATION

- My Profile
- Organization
 - Join Organization
 - New Organization
- Terms of Service

New Organization

Create a new organization for yourself and team members.

1 Organization Name

Organization Admin

Demo Utility

Organization Contact

demo_utility@gridtwin.energy

3 Create

Software
[For Developers](#)
[Help and Support](#)

Resources
[My Projects](#)
[Search](#)
[Maps](#)

Company
[About](#)
[Jobs](#)
[Report an Issue](#)

Contact: info@gridtwin.energy

Account Creation:

1. If you choose to create a new organization, input your organization name
2. This is the name other users will see in the Gridtwin software
3. Select 'Create'
4. Note that only users with the same email address can join your organization. For example, matt@gridtwin.energy can only join organizations which share the email domain 'gridtwin.energy'

My Organization - gridtwin x +

https://gridtwin.energy/auth/terms_of_service

gridtwin Home My Projects Search Map More ▼ julia@gridtwin.energy Log Out

REGISTRATION

- My Profile
- Organization
 - Join Organization
 - New Organization
- Terms of Service

Please read and agree to the Gridtwin Energy Inc. Terms of Service.

1 Gridtwin Energy Inc. Terms of Service

This software-as-a-service Terms of Service Agreement (this “**Agreement**”) is a binding contract between you (“**Customer**”) and Gridtwin Energy Inc. (“**Provider**”). This Agreement governs your access to and use of the software-as-a-service.

THIS AGREEMENT TAKES EFFECT WHEN YOU CLICK THE [“I ACCEPT”] BUTTON BELOW OR BY ACCESSING OR USING THE SOFTWARE-AS-A-SERVICE (“the **Effective Date**”). BY CLICKING ON THE [“I ACCEPT”] BUTTON BELOW OR BY ACCESSING OR USING THE SOFTWARE-AS-A-SERVICE YOU (A) ACKNOWLEDGE THAT YOU HAVE READ AND UNDERSTAND THIS AGREEMENT; (B) REPRESENT AND WARRANT THAT YOU HAVE THE RIGHT, POWER, AND AUTHORITY TO ENTER INTO THIS AGREEMENT AND, IF ENTERING INTO THIS AGREEMENT FOR AN ORGANIZATION, THAT YOU HAVE THE LEGAL AUTHORITY TO BIND THAT ORGANIZATION; AND (C) ACCEPT THIS AGREEMENT AND AGREE THAT YOU ARE LEGALLY BOUND BY ITS TERMS.

IF YOU DO NOT AGREE TO THESE TERMS, PLEASE SELECT THE [“I DECLINE”] BUTTON BELOW. IF YOU DO NOT ACCEPT THESE TERMS, YOU MAY NOT ACCESS OR USE THE SOFTWARE-AS-A-SERVICE.

- Definitions.
 - "Aggregated Statistics"** means data and information related to Customer's use of the Services that is used by Provider in an aggregate and anonymized manner, including to compile statistical and performance information related to the provision and operation of the Services.
 - "Authorized User"** means Customer's employees, consultants, contractors, and agents (i) who are authorized by Customer to access and use the Services under the rights granted to Customer pursuant to this Agreement and (ii) for whom access to the Services has been purchased hereunder.
 - "Customer Data"** means[, other than Aggregated Statistics,] information, data, and other content, in any form or medium, that is submitted, posted, or otherwise transmitted by or on behalf of Customer or an Authorized User through the Services.
 - "Documentation"** means Provider's [user manuals, handbooks, and guides relating to the Services provided by Provider to Customer either electronically or in hard copy form][end user documentation relating to the Services available at {Invalid hyperlink URL}].
 - "Provider IP"** means the Services, the Documentation, and any and all intellectual property provided to Customer or any Authorized User in connection with the foregoing. For the avoidance of doubt, Provider IP [includes Aggregated Statistics and any information, data, or other content derived from Provider's monitoring of Customer's access to or use of the Services, but]does not include Customer Data.
 - "Services"** means the software-as-a-service offering provided by Provider under this Agreement that is described in Customer’s service agreement.

Account Creation:

1. Please read and agree to the Gridtwin Energy Terms of Service
2. You must type your name exactly as it appears in your account profile
3. After accepting the Terms of Service your account is active and ready for use

g My Organization - gridtwin x +

← → ↻ https://gridtwin.energy/auth/terms_of_service

jurisdiction or country to which export, re-export, or release is prohibited by law, regulation, or rule. Customer shall comply with all applicable federal laws, regulations, and rules, and complete all required undertakings (including obtaining any necessary export license or other governmental approval), that prohibit or restrict the export or re-export of the Services or any Customer Data outside the US.]

(k) US Government Rights. Each of the Documentation and the software components that constitute the Services is a "commercial item" as that term is defined at 48 C.F.R. § 2.101, consisting of "commercial computer software" and "commercial computer software documentation" as such terms are used in 48 C.F.R. § 12.212. Accordingly, if Customer is an agency of the US Government or any contractor therefor, Customer only receives those rights with respect to the Services and Documentation as are granted to all other end users, in accordance with (a) 48 C.F.R. § 227.7201 through 48 C.F.R. § 227.7204, with respect to the Department of Defense and their contractors, or (b) 48 C.F.R. § 12.212, with respect to all other US Government users and their contractors.

(l) Equitable Relief. Each party acknowledges and agrees that a breach or threatened breach by such party of any of its obligations under Section 6 or, in the case of Customer, Section 2(d), would cause the other party irreparable harm for which monetary damages would not be an adequate remedy and agrees that, in the event of such breach or threatened breach, the other party will be entitled to equitable relief, including a restraining order, an injunction, specific performance, and any other relief that may be available from any court, without any requirement to post a bond or other security, or to prove actual damages or that monetary damages are not an adequate remedy. Such remedies are not exclusive and are in addition to all other remedies that may be available at law, in equity, or otherwise.

2 Type your full name

I Decline I Accept 3

Account Creation:

1. Please read and agree to the Gridtwin Energy Terms of Service
2. You must type your name exactly as it appears in your account profile
3. After accepting the Terms of Service your account is active and ready for use

Software
[For Developers](#)
[Help and Support](#)

Resources
[My Projects](#)
[Search](#)
[Maps](#)

Company
[About](#)
[Jobs](#)
[Report an Issue](#)

Contact: info@gridtwin.energy



The screenshot shows a web browser window with the URL https://gridtwin.energy/auth/new_user_next_steps. The page features a navigation bar with the Gridtwin logo, 'Home', 'My Projects', 'Search', 'Map', and 'More' options. The user's email 'julia@gridtwin.energy' and a 'Log Out' button are visible in the top right. A central notification box titled '1 New Account Active' contains the following steps:

- 1 **New Account Active**
Thanks for signing up! We suggest the following next steps to get the most of Gridtwin:
- 2 **Invite your team.**
Invite team members to join your organization and collaborate on new projects.
- 3 **Learn how to use Gridtwin.**
Review the help materials and videos to become an expert user.
- 4 **Create new projects.**
Use the map to search for new projects and simulate interconnection.

The left sidebar lists menu items under 'GENERAL' (My Account) and 'ADMINISTRATION' (Organization Settings, Manage Your Team, Members, Invite a Member, Pending Invites). The footer contains links for 'Software' (For Developers, Help and Support), 'Resources' (My Projects, Search, Maps), and 'Company' (About, Jobs, Report an Issue), along with the contact email 'info@gridtwin.energy'.

Account Creation:

1. After your account is active, get started with Gridtwin
2. Invite team members to join your organization
3. Read the help material
4. Create new projects

My Account - gridtwin

gridtwin.energy/auth/my_team

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

My Team

Edit team member roles or information

Name	Email	Title	Role	Edit
Info Gridtwin	info@gridtwin.energy	Info Account	Member	Edit
Julia Wiseman	julia@gridtwin.energy	Data Manager	Member	Edit
Matt Brusnahan	matt@gridtwin.energy	Developer	Member	Edit
Demo Utility	demo_utility@gridtwin.energy	Demo Account	Member	Edit
Developer Demo	demo_developer@gridtwin.energy	Demo Dev	Member	Edit

GENERAL

My Account

ADMINISTRATION

Organization Settings

Manage Your Team

Members

Invite a Member

Pending Invites

Software

[For Developers](#)

[Help and Support](#)

Resources

[My Projects](#)

[Search](#)

[Maps](#)

Company

[About](#)

[Jobs](#)

[Report an Issue](#)

Contact: info@gridtwin.energy

Organization Management:

1. You can manage your team under the administration settings
2. To send an email invite to someone on your team select 'Invite a Member'

g Invite Members - gridtwin x +

gridtwin.energy/auth/invite_members

gridtwin Home My Projects Search Map More ▾ julia@gridtwin.energy Log Out

GENERAL

My Account

ADMINISTRATION

Organization Settings

Manage Your Team

Members

Invite a Member **1**

Pending Invites

Invite Members

Invite members to your organization

New members will have access to all projects and reports saved by members of your organization.

2 Email

First Name

Last Name

Job Title

Organization

Gridtwin Energy

3 Invite Cancel

Organization Management:

1. Invite a member to join your organization
2. Note that only users with the same email domain can join your organization. For example, matt@gridtwin.energy can only join organizations which share the email domain 'gridtwin.energy'
3. Select 'Invite'
4. After inviting a new member, that member will receive an email inviting them to join your organization

gridtwin Home My Projects Search Map More ▼ julia@gridtwin.energy [Log Out](#)

GENERAL

- My Account

ADMINISTRATION

- Organization Settings
- Manage Your Team
- Members
- Invite a Member
- Pending Invites** 1

Received Invites

Invites to join your organization

Organization	Requestor	Requestor Email	Invite Role	Accept	Reject
Gridtwin Energy	Demo Info	info@gridtwin.energy	member	Accept	Reject

Sent Invites

Invites sent by your organization

Name	Email	Title	Role	Status	Cancel
Developer Demo	demo_developer@gridtwin.energy	Demo Dev	member	pending	Cancel

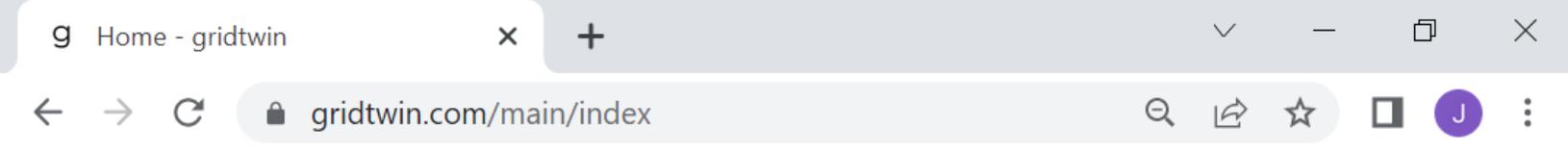
Past Invites

Canceled or accepted invites

Name	Email	Title	Role	Status
Developer Demo	demo_developer@gridtwin.energy	Demo Dev	member	canceled
Julia Wiseman	julia@gridtwin.energy	Data Manager	member	accepted
Demo Utility	demo_utility@gridtwin.energy	Demo Account	member	accepted

Organization Management:

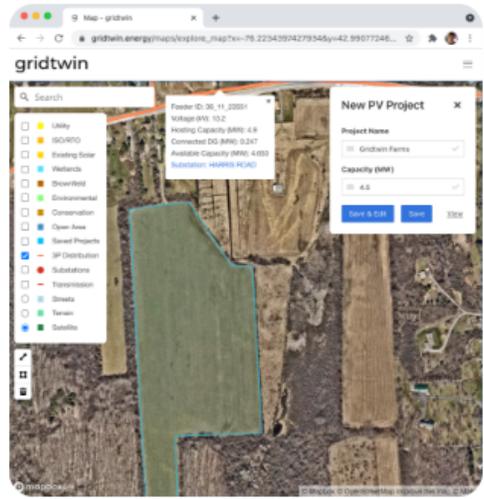
1. If you have received requests to join your organization, you can view them under 'Pending Invites'
2. Here you can accept or reject requests to join your organization
3. You can also view invites you have sent to potential members



1

gridtwin

Change the way you manage generator interconnection.



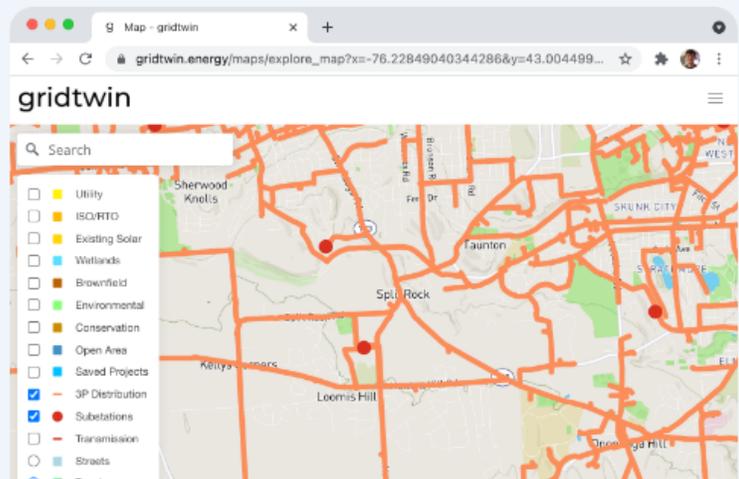
Home Page

1. When using the software anytime after account creation, log in from the home page or any other page on the site

Complex Models. Simple Software.

Simplify Interconnection

- Search for ideal project sites
- Map out project details
- Share results with your team
- Run automated interconnection analysis



gridtwin

Sign in with your email and password

Email

Password

[Forgot your password?](#)

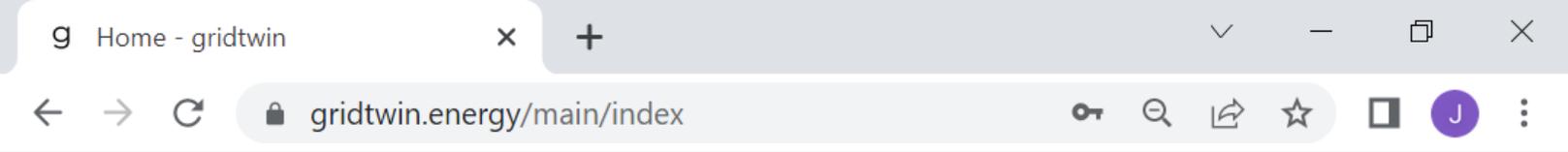
Sign in

Need an account? [Sign up](#)

Login Page

From this page, login, reset your password, or create a new account





- gridtwin
- Home
- My Projects
- Search
- Map
- More ▼

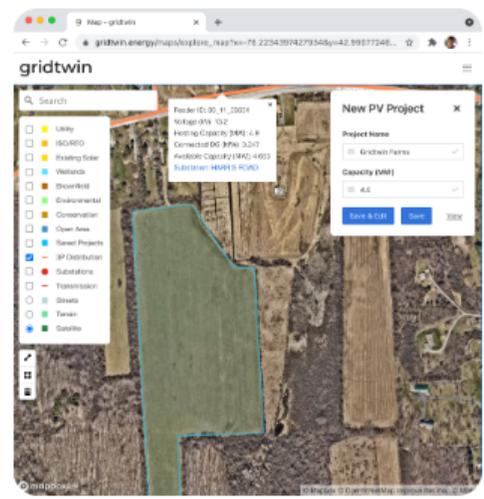
- 5
- 1
- 2
- 3
- 4

gridtwin

Change the way you manage generator interconnection.

Log Out

6

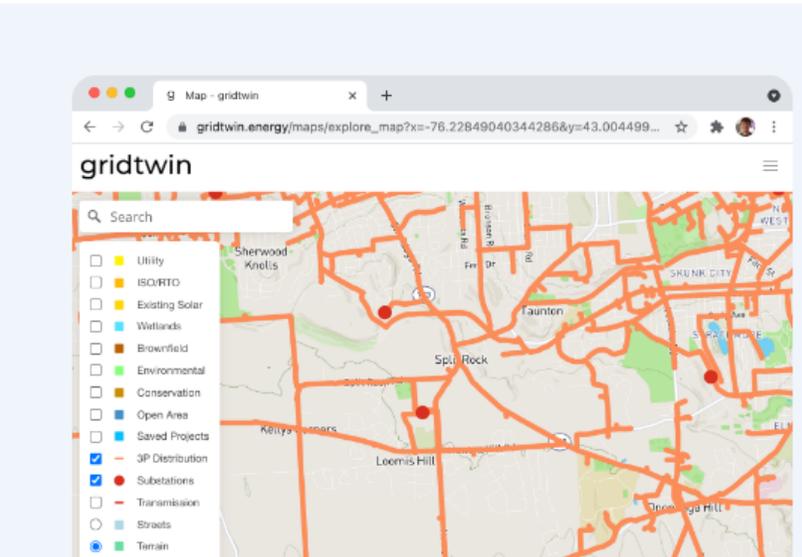


Menu Bar

After logging in, the menu bar allows you to navigate to any feature of the software:

1. My Projects Page
2. Search for New Projects
3. Explore the Map
4. More:
 - Help, Support, Other Information
5. Back to the Home Page
6. Log Out

After reviewing the menu bar, navigate to 'My Projects' (1).



Complex Models. Simple Software.

Simplify Interconnection

- Search for ideal project sites
- Map out project details
- Share results with your team
- Run automated interconnection analysis



My Projects - gridtwin

gridtwin Home My Projects Search Map More julia@gridtwin.energy Log Out

1 Sort: Last Modified ▼ Descending ▼ Sort Utility: All ▼ Filter

Status: All ▼ Filter User: J. Wiseman ▼ Filter **4** Export CSV

1842165 Status: Complete Nameplate kW: 2,369 National Grid-MA June 7, 2022 at 7:44 AM User: J. Wiseman 2 Map 3 Results	1927096 Status: Complete Nameplate kW: 402 Eversource East-MA June 7, 2022 at 7:42 AM User: J. Wiseman Map Results	1821854 Status: Complete Nameplate kW: 358 National Grid-MA June 7, 2022 at 7:41 AM User: J. Wiseman Map Results	1896825 Status: Complete Nameplate kW: 5,000 Eversource East-MA June 7, 2022 at 7:33 AM User: J. Wiseman Map Results
549929 Status: Complete Nameplate kW: 5,000 National Grid-NY June 7, 2022 at 7:07 AM User: J. Wiseman Map Results	549929 Status: Complete Nameplate kW: 5,000 National Grid-NY June 6, 2022 at 1:57 PM User: J. Wiseman Map Results	359375 Status: Complete Nameplate kW: 4,374 NYSEG June 6, 2022 at 1:53 PM User: J. Wiseman Map Results	103 Status: Complete Nameplate kW: 5,000 NYSEG June 6, 2022 at 1:53 PM User: J. Wiseman Map Results

My Projects

1. Sort and Filter projects by utility, status, or other characteristics
2. View a saved project on the map
3. View results of interconnection analysis
4. Export project results, geometries, and other characteristics to csv

g My Projects - gridtwin

gridtwin.energy/maps/sites_index?sort_by=-last_mod&us...

gridtwin Home My Projects Search M More

julia@gridtwin.energy Log Out

1

Export CSV

Example Project - 1

Status: Complete
Nameplate kW: 3,348
National Grid-MA
June 3, 2021 at 7:19 AM

Map Results

Example Project - 2

Status: Complete
Nameplate kW: 5,000
National Grid-NY
June 3, 2021 at 7:03 AM

Map Results

My Projects

New Users typically have a 'My Projects' Page with two example projects

1. Navigate to the Map as the next step of the training

g Map and Search - gridtwin

gridtwin energy/maps/search_map?x=-71.3864779472351...

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

Search

Utility Territory

All

Min Capacity Max Capacity

0.500 MW 10.000 MW

Min Parcel Size Max Parcel Size

1 Acre 50 Acres

Available Line Hosting Capacity MW-AC

1.000 MW

Available Substation Capacity MW-AC

1.000 MW

Max Distance from 3P Feeder (meters)

1000 meters

Max Distance from Substation (meters)

3500 meters

Max Elevation Slope

10 degrees

Map:

The map contains information related to interconnection across multiple utilities in the United States.

Data is aggregated from multiple public data sources to provide comprehensive information layers:

- Transmission Lines
- Substations
- Hosting Capacity
- Parcel Boundaries
- Utility Boundaries
- Wetlands
- Environmental Conservation

g Map and Search - gridtwin

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

Search

Utility
Wetlands
Brownfield
Environmental
Conservation
Open Area
Saved Projects
 3P Distribution
 Substations
Transmission
Streets
Terrain
Satellite

1

2

3

4

Search Save

Utility Territory
All

Min Capacity Max Capacity
0.500 MW 10.000 MW

Min Parcel Size Max Parcel Size
1 Acre 50 Acres

Available Line Hosting Capacity MW-AC
1.000 MW

Available Substation Capacity MW-AC
1.000 MW

Max Distance from 3P Feeder (meters)
1000 meters

Max Distance from Substation (meters)
3500 meters

Max Elevation Slope
10 degrees

Map: Using Layers

Layers can be enabled and disabled in the map view.

Some layers are only available when at high zoom levels. Zoom in further to enable all layers

1. Search for an address
2. Enabled Layers
3. Measure Distance: Click the last point to complete the line
4. Draw Project Boundary



The screenshot shows the Gridtwin web application interface. At the top, there is a navigation bar with the Gridtwin logo, links for Home, My Projects, Search, Map, and More, and a user profile for julia@gridtwin.energy with a Log Out button. Below the navigation bar is a search bar and a legend for various map layers. The main map area displays a satellite view with a blue-outlined project boundary. A tooltip for the selected area provides the following data: Feeder ID: 36_11_23551, Voltage (kV): 13.2, Hosting Capacity (MW): 2.9, Connected DG (MW): 0.272, Available Capacity (MW): -7.385, and Substation: HARRIS ROAD. On the right side, a panel for editing the project is visible, featuring a Search tab and a Save tab. The Save tab is active, showing a Project Name dropdown set to 'Gridtwin Farms' and a Capacity (MW) dropdown set to '5.93'. Below these fields are three buttons: 'Save & Edit', 'Save', and 'View'. The map interface includes a search bar, a legend with various categories like Utility, Wetlands, Brownfield, Environmental, Conservation, Open Area, Saved Projects, 3P Distribution, Substations, Transmission, Streets, Terrain, and Satellite, and a toolbar with a red circle labeled '1' around the drawing tool icon.

gridtwin

Map and Search - gridtwin

gridtwin.energy/maps/search_map?x=-76.2210580976501...

Home My Projects Search Map More

julia@gridtwin.energy Log Out

Search

Utility
Wetlands
Brownfield
Environmental
Conservation
Open Area
Saved Projects
3P Distribution
Substations
Transmission
Streets
Terrain
Satellite

Feeder ID: 36_11_23551
Voltage (kV): 13.2
Hosting Capacity (MW): 2.9
Connected DG (MW): 0.272
Available Capacity (MW): -7.385
Substation: HARRIS ROAD

Search Save

Project Name
Gridtwin Farms

Capacity (MW)
5.93

Save & Edit Save View

Map: Save a Project Site

1. Draw a Project Boundary:
Draw a shape and complete the shape by clicking the first point.
2. Save Tab: The new project's information will auto-populate here. Give it an appropriate name before saving
3. Save & Edit: Save the project and go to the edit page to define further details
4. Save: Save the project and remain on the map page
5. View: View the last saved project



The screenshot shows the Gridtwin web application interface. At the top, there is a browser address bar with the URL `gridtwin.energy/maps/search_map?x=-76.2210580976501...`. The navigation bar includes the Gridtwin logo, links for Home, My Projects, Search, Map, and More, along with the user email `julia@gridtwin.energy` and a Log Out button. A search bar is located on the left side of the map. The map itself displays a satellite view of a rural area with a blue-outlined polygon representing a project site. A tooltip above the site provides the following information: Feeder ID: 36_11_23551, Voltage (kV): 13.2, Hosting Capacity (MW): 2.9, Connected DG (MW): 0.272, Available Capacity (MW): -7.385, and Substation: HARRIS ROAD. On the left, a legend lists various map layers, with '3P Distribution' checked. On the right, a 'Save' panel is open, showing the 'Project Name' as 'Gridtwin Farms' and 'Capacity (MW)' as '5.93'. The panel includes buttons for 'Save & Edit', 'Save', and 'View'. A circled number '1' is placed over the 'My Projects' link in the navigation bar.

Map: Save a Project Site

1. Return to the 'My Projects' page to see the newly saved site

Sort: Last Modified v Descending v Sort Utility: All v Filter

Status: All v Filter User: J. Wiseman v Filter Export CSV

Gridtwin Farms Status: New Nameplate kW: 5,930 National Grid-NY June 7, 2022 at 8:47 AM User: J. Wiseman Map Results	1842165 Status: Complete Nameplate kW: 2,369 National Grid-MA June 7, 2022 at 7:44 AM User: J. Wiseman Map Results	1927096 Status: Complete Nameplate kW: 402 Eversource East-MA June 7, 2022 at 7:42 AM User: J. Wiseman Map Results	1821854 Status: Complete Nameplate kW: 358 National Grid-MA June 7, 2022 at 7:41 AM User: J. Wiseman Map Results
1896825 Status: Complete Nameplate kW: 5,000 Eversource East-MA June 7, 2022 at 7:33 AM User: J. Wiseman Map Results	549929 Status: Complete Nameplate kW: 5,000 National Grid-NY June 7, 2022 at 7:07 AM User: J. Wiseman Map Results	549929 Status: Complete Nameplate kW: 5,000 National Grid-NY June 6, 2022 at 1:57 PM User: J. Wiseman Map Results	359375 Status: Complete Nameplate kW: 4,374 NYSEG June 6, 2022 at 1:53 PM User: J. Wiseman Map Results

My Projects: View the saved project

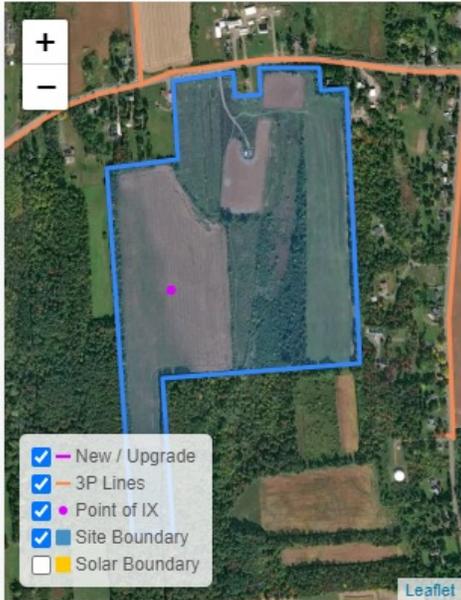
1. The saved project is now available
2. Click 'Results' to see details on the project

g Results - gridtwin x +

gridtwin.energy/maps/results/2770?res_id=5602

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out



Gridtwin Farms

Project Details:

Utility: National Grid-NY

Location: Syracuse, NY

Nameplate kW: 5,930 kW

Assigned User: Julia Wiseman

Full Parcel Details: [View](#)

Longitude, Latitude of IX: -76.22, 42.99

Click Edit to Modify Solar Boundary, Location of IX, or Site kW

2 Map

3 Edit

4 Delete

Start New Analysis

Select Simulation Type

⚡ Interconnection Estimate [Start!](#)

Interconnection Estimate: This analysis performs an automated interconnection study for a solar generation site with a DC nameplate output given above. The simulation typically finishes within 5 minutes, but may take up to 10 minutes to complete.

Project Detail: Overview

From this page, start a new interconnection estimate, edit the site details, or view the results.

If the site is new, the results will be empty until an interconnection analysis is completed.

1. View parcel details
2. View project on the map
3. Edit the project details
4. Delete the project
5. Start an interconnection analysis



Results - gridtwin

gridtwin.energy/maps/results/2770?res_id=5603

Start New Analysis

Select Simulation Type

Interconnection Estimate Start!

Interconnection Estimate: This analysis performs an automated interconnection study for a solar generation site with a DC nameplate output given above. The simulation typically finishes within 5 minutes, but may take up to 10 minutes to complete.

Results Summary

Select Simulation Result Case

5603 09:14 AM IX Study Export KML

Description: null

Predicted Interconnection Expense:

Total Interconnection Cost: N/A

Time	Message
09:14 AM	Loading Network from Database
09:14 AM	Starting IX Optimization

Project Detail: Interconnection Estimate

After starting an interconnection estimate, results will typically be ready in less than 5 minutes.

1. Start an interconnection estimate
2. Select the results: Each project can have multiple results
3. Refresh the results and status updates
4. Refresh the results and status updates
5. Export this project as a KML file for use elsewhere

Results Summary

Select Simulation Result Case **1**

5603 09:14 AM IX Study [Export KML](#)

Description: This analysis includes an interconnection simulation for a site with a nameplate DC rating of 5.930 MW. For this analysis, line loading limits and voltage conditions were checked for all lines effected by the project. Required upgrades are summarized in the Cost Breakdown Table below. This analysis includes 0.272 MW of DG already connected to the network. Locations for these projects were determined using our satellite imagery. For an estimated analysis which includes a range of cost based on projects in the DG queue, perform a congestion simulation listed above.

Predicted Interconnection Expense:

2

Line: \$206,000
Metering: \$14,200
Protection: \$800,000

Total Interconnection Cost: \$1,020,000

3

Time	Message
09:14 AM	Loading Network from Database
09:14 AM	Starting IX Optimization
09:14 AM	IX Optimization Complete
09:14 AM	Available Line Hosting Capacity: -7.38453
09:14 AM	Saving Bill of Materials to DB
09:14 AM	Adding SCADA Recloser for Project > 1 MW
09:14 AM	Project Exceeds Published Hosting Capacity
09:14 AM	Adding Voltage Regulator for Possible Overvoltage
09:14 AM	Project Exceeds 3V0 Threshold Limit
09:14 AM	Adding 3V0 Protection to Substation

Project Detail: Interconnection Estimate

After the analysis is completed, view the results summary, cost breakdown and status updates.

1. Select or refresh results
2. Summary of cost breakdown
3. Status updates of interconnection analysis. These status updates also include information on hosting capacity and required upgrades.

1

Time	Message
09:14 AM	Loading Network from Database
09:14 AM	Starting IX Optimization
09:14 AM	IX Optimization Complete
09:14 AM	Available Line Hosting Capacity: -7.38453
09:14 AM	Saving Bill of Materials to DB
09:14 AM	Adding SCADA Recloser for Project > 1 MW
09:14 AM	Project Exceeds Published Hosting Capacity
09:14 AM	Adding Voltage Regulator for Possible Overvoltage
09:14 AM	Project Exceeds 3V0 Threshold Limit
09:14 AM	Adding 3V0 Protection to Substation

2

Cost Breakdown - Base Case

Item	Units	Expense
line_GT_LINE_0_887_3P_OH_55_56_2119_Extension_3P_OH	1,583 ft	\$206,000
On-site Metering	2 units	\$14,200
SCADA Recloser	1 units	\$120,000
Voltage Regulator	1 units	\$180,000
3V0 Protection	1 units	\$500,000
Total		\$1,020,000

Project Detail: Interconnection Estimate

The cost breakdown includes each line item for the interconnection estimate.

1. Status updates of interconnection analysis: These status updates also include information on hosting capacity and required upgrades.
2. Cost Breakdown: Line items which are included in the total interconnection cost.

g Results - gridtwin

gridtwin.energy/maps/results/2770?res_id=5603

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

Default

Gridtwin Farms

Project Details:

Utility: National Grid-NY
Location: Syracuse, NY
Nameplate kW: 5,930 kW
Assigned User: Julia Wiseman
Full Parcel Details: [View](#)

Longitude, Latitude of IX: -76.22, 42.99

Click Edit to Modify Solar Boundary, Location of IX, or Site kW

Map Edit Delete

Start New Analysis

Select Simulation Type

Interconnection Estimate Start!

Interconnection Estimate: This analysis performs an automated interconnection study for a solar generation site with a nameplate output given above. The simulation typically finishes within 5 minutes, but may take up to 10 minutes to complete.

Results Summary

Simulation Result Case

5603 09:14 AM IX Study Export KML

Description: This analysis includes an interconnection simulation for a site with a nameplate DC rating of 5.930 MW.

Edited

Project Detail: Analyze multiple interconnection options

Edit a project to modify line routing and analyze multiple scenarios:

1. Select Edit to modify the point of interconnection or three-phase line routing

Edit also allows users to modify the local hosting capacity or network parameters



g Edit Site Details - gridtwin x +

gridtwin.energy/maps/results/edit/2770?x=-76.22487615...

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

1

2

3

4

5

Edit Project

Select the interconnection point above to move the location.

Click the site boundary twice to edit the corners and borders of the site boundary.

Select save when finished to update the project. Simply refresh the page or select cancel to discard results.

Project Site Inputs

Project Name

Gridtwin Farms

Assigned User

J. Wiseman

Project Rated Capacity (MW AC)

5.93

Edit Project:

From this page, change the site boundary, move the point of interconnection, or manually create a line extension

1. Select the point of interconnection and drag to the appropriate location
2. Select the boundary to redraw the border
3. Manually draw a three phase extension to the project site
4. Redraw the project boundary
5. Edit Site Name, Capacity, or other characteristics

The screenshot shows a web browser window with the URL `gridtwin.energy/maps/results/edit/2770?x=-76.22487615...`. The page title is "Edit Site Details - gridtwin". The user is logged in as "julia@gridtwin.energy" and has a "Log Out" button. The map displays a site boundary in light blue, a three-phase distribution line in orange, and a three-phase line extension in light blue. Three numbered callouts are present: 1 points to the intersection of the site boundary and the extension; 2 points to the extension line; 3 points to the map controls. A legend on the left lists various map layers, with "3P Distribution" checked. The map includes a search bar, a mapbox logo, and a copyright notice for Mapbox and OpenStreetMap.

Edit Project: Manually add a three phase extension

For this site, the point of interconnection has been moved, and a three phase line extension has been drawn

1. Point of interconnection was moved to the south-east corner of the site
2. A three-phase line extension was drawn by the user
3. Line Extension Tool: The three-phase extension is not required. Gridtwin will automatically generate a three-phase extension if this is not used.

Edit Project

Select the interconnection point above to move the location.

Click the site boundary twice to edit the corners and borders of the site boundary.

Select save when finished to update the project. Simply refresh the page or select cancel to discard results.

Project Site Inputs

Project Name

Gridtwin Farms

Assigned User

J. Wiseman

Project Rated Capacity (MW AC)

5.93

Edit Site: Override local values

Local hosting capacity values can be edited by the user if required. These values will affect required substation upgrades or line upgrades.

1. Feeder Capacity: Override the published hosting capacity value for the feeder
2. Feeder Connected DG: The amount of DG connected to the feeder
3. Feeder Pending DG: For the purposes of analysis, pending projects are assumed to be connected

The screenshot shows a web browser window with the URL `gridtwin.energy/maps/results/edit/2770?x=-76.224876...`. The page is titled "Edit Site Details - gridtwin". On the left, there is a sidebar with the heading "Edit Project" and instructions: "Select the interconnection point above to move the location.", "Click the site boundary twice to edit the corners and borders of the site boundary.", and "Select save when finished to update the project. Simply refresh the page or select cancel to discard results." The main content area is titled "Project Site Inputs" and contains several fields: "Project Name" (Gridtwin Farms), "Assigned User" (J. Wiseman), and "Project Rated Capacity (MW AC)" (5.93). Below this is the "Local Network Inputs" section, which has a checked checkbox for "Override Local Values". Three items in this section are circled in red and numbered: "Feeder Capacity (MW)" (2.9), "Feeder Connected DG (MW)" (0.27189), and "Feeder Pending DG (MW)" (10.01264). Other items include "Substation Capacity (MW)" (38), "Substation Connected (MW)" (0.590395), "Substation Pending (MW)" (10.03004), a checked checkbox for "3V0 Upgrades Already Complete", and "3V0 Threshold (MW)" (0).

Edit Project: Override local values

Overrides to substation capacity or 3V0 protection are also available.

1. Substation Capacity: Override the published substation capacity. This is based on the transformer ratings at the substation
2. Substation Connected DG: The amount of DG connected to the substation
3. Substation Pending DG: For the purposes of analysis, pending projects are assumed to be connected
4. 3V0 Protection: Have the required 3V0 upgrades been completed? If not completed, the megawatt threshold to trigger upgrades

Edit Project

Select the interconnection point above to move the location.

Click the site boundary twice to edit the corners and borders of the site boundary.

Select save when finished to update the project. Simply refresh the page or select cancel to discard results.

Project Site Inputs

Project Name

Gridtwin Farms

Assigned User

J. Wiseman

Project Rated Capacity (MW AC)

5.93

Local Network Inputs

Override Local Values

Feeder Capacity (MW)

2.9

Feeder Connected DG (MW)

0.27189

Feeder Pending DG (MW)

10.01264

1

Substation Capacity (MW)

38

2

Substation Connected (MW)

0.590395

3

Substation Pending (MW)

10.03004

4

3V0 Upgrades Already Complete

3V0 Threshold (MW)

0

Edit Site Details - gridtwin

gridtwin.energy/maps/results/edit/2770?x=-76.224876...

2.9

Feeder Connected DG (MW)

0.27189

Feeder Pending DG (MW)

10.01264

Substation Capacity (MW)

38

Substation Connected (MW)

0.590395

Substation Pending (MW)

10.03004

3V0 Upgrades Already Complete

3V0 Threshold (MW)

0

Cost Estimate Modifiers

Apply Cost Modifiers

1 Add Contingency (%)

20%

2 3V0 Cost Sharing (%)

100%

3 Add Taxes (%)

15%

Save Cancel

Edit Project: Add Contingency or Taxes

Contingency and Taxes can be added to any project analysis.

3V0 Cost sharing can also be included to reduce the cost of 3v0 upgrades.

1. Contingency: Increase interconnection cost by a flat percentage
2. 3V0 Cost Sharing: Decrease the cost of 3V0 if upgrades are shared between multiple developers
3. Add Taxes: Increase total cost by a flat percentage to account for taxes



g Results - gridtwin x +

gridtwin.energy/maps/results/2770?res_id=5604

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

Gridtwin Farms

Project Details:

Utility: National Grid-NY
Location: Syracuse, NY
Nameplate kW: 5,930 kW
Assigned User: Julia Wiseman
Full Parcel Details: View

Longitude, Latitude of IX: -76.22, 42.99

Click Edit to Modify Solar Boundary, Location of IX, or Site kW

Map Edit Delete

Start New Analysis

Select Simulation Type

Interconnection Estimate Start!

Interconnection Estimate: This analysis performs an automated interconnection study for a solar generation site with a DC nameplate output given above. The simulation typically finishes within 5 minutes, but may take up to 10 minutes to complete.

Results Summary

Select Simulation Result Case

5604 11:06 AM IX Study Export KML

Description: This analysis includes an interconnection simulation for a site with a nameplate DC

Project Detail: View alternative interconnection option

After saving the new options, start a new interconnection analysis.

1. A new analysis is required each time options or geometry are changed
2. The alternative results are displayed whenever a new results case is selected
3. The upgrades on the map will refresh
4. Scroll down to see the additional results



g My Projects - gridtwin x +

gridtwin.energy/maps/sites_index?sort_by=-last_mod&...

gridtwin Home My Projects Search Map More ▾ julia@gridtwin.energy Log Out

1

Sort: Last Modified ▾ Descending ▾ Sort Utility: All ▾ Filter Status: All ▾ Filter

User: J. Wiseman ▾ Filter Export CSV

Gridtwin Farms Status: Complete Nameplate kW: 5,930 National Grid-NY June 7, 2022 at 11:06 AM User: J. Wiseman Map Results	1842165 Status: Complete Nameplate kW: 2,369 National Grid-MA June 7, 2022 at 7:44 AM User: J. Wiseman Map Results	1927096 Status: Complete Nameplate kW: 402 Eversource East-MA June 7, 2022 at 7:42 AM User: J. Wiseman Map Results	1821854 Status: Complete Nameplate kW: 358 National Grid-MA June 7, 2022 at 7:41 AM User: J. Wiseman Map Results
1896825 Status: Complete Nameplate kW: 5,000 Eversource East-MA June 7, 2022 at 7:33 AM User: J. Wiseman Map Results	549929 Status: Complete Nameplate kW: 5,000 National Grid-NY June 7, 2022 at 7:07 AM User: J. Wiseman Map Results	549929 Status: Complete Nameplate kW: 5,000 National Grid-NY June 6, 2022 at 1:57 PM User: J. Wiseman Map Results	359375 Status: Complete Nameplate kW: 4,374 NYSEG June 6, 2022 at 1:53 PM User: J. Wiseman Map Results
103 Status: Complete Nameplate kW: 5,000 NYSEG June 6, 2022 at 1:53 PM User: J. Wiseman Map Results	529443 Status: Complete Nameplate kW: 5,000 National Grid-NY June 6, 2022 at 1:51 PM User: J. Wiseman Map Results	520310 Status: Complete Nameplate kW: 5,000 NYSEG June 6, 2022 at 1:51 PM User: J. Wiseman Map Results	8415 Status: Complete Nameplate kW: 2,589 NYSEG March 22, 2022 at 2:21 PM User: J. Wiseman Map Results

Search: Find New Parcels

1. Navigate to Search to find new projects

The screenshot shows the Gridtwin 'Site Search' interface. The page title is 'Site Search' with the subtitle 'Identify Suitable Parcels for Development'. The search criteria are organized into two columns. The left column contains: 'Saved Search Area' (set to 'All'), 'Utility Territory' (set to 'All'), 'Min Capacity MW-AC' (set to '0.050 MW'), 'Max Capacity MW-AC' (set to '5.000 MW'), 'Min Reported Hosting Capacity MW-AC' (set to '1.000 MW'), 'Min Available Line Hosting Capacity MW-AC' (set to '1.000 MW'), 'Min Available Substation Hosting Capacity MW-AC' (set to '1.000 MW'), 'Max DG in Queue MW-AC' (set to '1.000 MW'), and 'Minimum Parcel Size (acres)' (set to '20 Acres'). The right column contains: 'Minimum Parcel Size (acres)' (set to '20 Acres'), 'Land Use Types' (set to 'All'), 'Max Conservation %' (set to '50 percent'), 'Max Environmental %' (set to '50 percent'), 'Max Distance from 3P Feeder (meters)' (set to '1000 meters'), 'Max Distance from Substation (meters)' (set to '5000 meters'), 'Max Distance from Transmission (meters)' (set to '5000 meters'), 'Max Interconnect Cost (USD)' (set to '\$ 500,000'), 'Max Distance from Existing Solar (meters)' (set to '5000 meters'), 'Max Elevation Slope' (set to '10 degrees'), and 'Under System or Group Study?' (radio buttons for 'All', 'Yes', 'No', with 'All' selected). At the bottom, there are radio buttons for 'FERC Jurisdictional Feeder?' (radio buttons for 'All', 'Yes', 'No', with 'All' selected) and two buttons: 'Find Sites' and 'Cancel'. Numbered callouts 1 through 7 are overlaid on the interface: 1 points to 'Saved Search Area', 2 to 'Utility Territory', 3 to 'Min Capacity MW-AC', 4 to 'Min Reported Hosting Capacity MW-AC', 5 to 'Min Available Line Hosting Capacity MW-AC', 6 to the 'Minimum Parcel Size (acres)' dropdown in the right column, and 7 to the 'Find Sites' button.

Search: Define search criteria for new project sites

- All search criteria are optional
 - Multiple criteria can be combined to refine the search results
1. Saved Search Area: define a geographic area to search within
 2. Utility Territory: Only one utility can be selected
 3. Filter by Project Size (MW-AC): Based on an approximation of available land
 4. Reported Hosting Capacity: Utility reported values for hosting capacity
 5. Available hosting Capacity: Based on reported hosting capacity, but accounting for projects connected or in-queue
 6. Scroll to view all possible search criteria
 7. Search

Site Search - gridtwin

gridtwin.energy/maps/search?search_geom=All&te...

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

Sort Project Size Ascending Sort

Page 1 Go

1

2

3

4

5

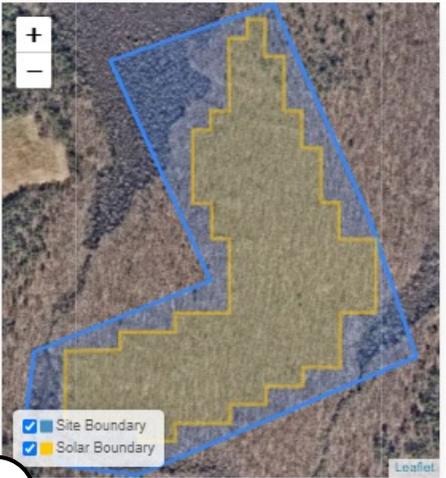
Estimated kW: 2,646	Land Type: Pasture/Hay	Slope: 1°	Aspect: South-West	Zip Code: null
Estimated kW: 1,674	Land Type: Cultivated Crops	Slope: 1°	Aspect: South-West	Zip Code: null
Estimated kW: 1,620	Land Type: Cultivated Crops	Slope: 3°	Aspect: South-East	Zip Code: null

Search: View Results of Parcel Search

1. Sort the results of the search
2. View the identified area for potential ground-mount solar
3. Save the project to your 'My Projects' Page
4. View the Parcel on the Map
5. See the details of the Parcel

Parcel Detail - gridtwin

gridtwin.energy/maps/parcel/1781927



1

Parcel 1781927: 7,196 kW

Click Save below to edit site characteristics and boundary

2

Parcel Overview:

Utility: National Grid-Ma
Location: Oxford, MA
Estimated kW: 7,196 kW

Parcel Details

Full Parcel Details: [View](#)

Parcel Area: 53 Acres
Solar Area: 30 Acres
Forested Area: 44 Acres
Parcel Value: \$44,000
Land-Use: Deciduous Forest
Slope: 4°
Aspect: South-East
Wetland Coverage: 25%
Water/Wetland Type: Wooded Swamp Deciduous
Environmental Zone Coverage: 99%
Environmental Zone Type: Core Habitat
Cultural Zone Coverage: 20%
Cultural Zone Type: Whittier Farm South Apr
Brownfield Coverage: 2%
Brownfield Type: All Areas Are Prime Farmland

Feeder Information

Feeder Name: 05_01_304W6
Distance to 3-Phase Line: 666 m
Reported Hosting Capacity: 8.00 MW
Available Hosting Capacity: 3.74 MW
DG Connected to Feeder: 2.41 MW
DG Pending on Feeder: 1.85 MW
FERC Jurisdictional Feeder: No

Substation Information

Substation Name: Millbury
Distance to Substation: 6,166 m

3

4

Search: View Parcel Details

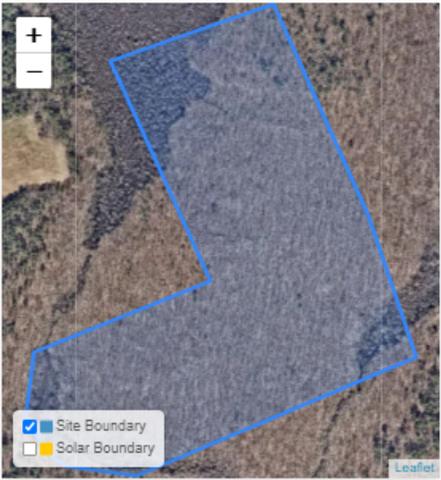
1. View the Site Boundary as well as the Identified Area for ground-mount solar
2. Save the site to 'My Projects' at the bottom of the page
3. View the full parcel details such as owner name, contact information, zoning, etc.
4. View other information related to interconnection

Parcel Contact Detail - gridtwin

gridtwin.energy/maps/parcel/1781927/contact_deta...

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out



Parcel 1781927: 7,196 kW

Parcel Overview:

Utility: National Grid-Ma
Location: Oxford, MA
Estimated kW: 7,196 kW

Other Information 1

Object ID: 2564937
FIPS Code: 25027
Parcel ID: 55_A05
Parcel ID without Formatting: 55A05
First Alternative Parcel ID: 55_A_05
Parcel Use Code: 1320
Number of Stories: 0.0
Number of Units: 0
Parcel Value Type: ASSESSED
Improvement Value: 0.0
Land Value: 44000.0
Total Parcel Value: 44000.0
Last Sale Price: 100.0
Tax Year: 2021
Owner Name: SALMONSON, ROBERT W
Mailing Address: 14 COACHMAN LN
Mailing Address City: AUBURN
Mailing Address State: MA
Mailing Address ZIP Code: 01501-1804
Parcel Address: 0 DOUGLAS RD
Parcel Address Number: 0
Parcel Address Street Name: DOUGLAS
Parcel Address Street Type: RD
Parcel Address City: OXFORD
Original Parcel Address: 0 DOUGLAS RD; 0; DOUGLAS; OXFORD; 01540
US Census County Subdivision: oxford
Parcel Address County: worcester
Parcel Address State: ma

Search: View Parcel Details

1. View all available characteristics for the parcel such as Owner Name, Contact Information, Address, Property ID, and Zoning Information

g My Projects - gridtwin

gridtwin.energy/maps/sites_index?sort_by=-last_mo...

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

Sort: Last Modified Descending Sort Utility: All Filter Status: All Filter

User: J. Wiseman Filter Export CSV

1 Saved - 1781927

Status: New
Nameplate kW: 5,000
National Grid-MA
June 7, 2022 at 3:10 PM
User: J. Wiseman

Map Results

2

Gridtwin Farms

Status: Complete
Nameplate kW: 5,930
National Grid-NY
June 7, 2022 at 11:06 AM
User: J. Wiseman

Map Results

1842165

Status: Complete
Nameplate kW: 2,369
National Grid-MA
June 7, 2022 at 7:44 AM
User: J. Wiseman

Map Results

1927096

Status: Complete
Nameplate kW: 402
Eversource East-MA
June 7, 2022 at 7:42 AM
User: J. Wiseman

Map Results

1821854

Status: Complete
Nameplate kW: 358
National Grid-MA
June 7, 2022 at 7:41 AM
User: J. Wiseman

Map Results

1896825

Status: Complete
Nameplate kW: 5,000
Eversource East-MA
June 7, 2022 at 7:33 AM
User: J. Wiseman

Map Results

549929

Status: Complete
Nameplate kW: 5,000
National Grid-NY
June 7, 2022 at 7:07 AM
User: J. Wiseman

Map Results

549929

Status: Complete
Nameplate kW: 5,000
National Grid-NY
June 6, 2022 at 1:57 PM
User: J. Wiseman

Map Results

359375

Status: Complete
Nameplate kW: 4,374
NYSEG
June 6, 2022 at 1:53 PM
User: J. Wiseman

103

Status: Complete
Nameplate kW: 5,000
NYSEG
June 6, 2022 at 1:53 PM
User: J. Wiseman

529443

Status: Complete
Nameplate kW: 5,000
National Grid-NY
June 6, 2022 at 1:51 PM
User: J. Wiseman

520310

Status: Complete
Nameplate kW: 5,000
NYSEG
June 6, 2022 at 1:51 PM
User: J. Wiseman

Search: Saved Parcel

After saving, the parcel is available in your 'My Projects' Page

1. Saved Parcel from search
2. View Project and start an interconnection analysis
3. To explore an alternate search method, return to the Map

The screenshot shows the Gridtwin web application interface. The browser address bar displays the URL: `gridtwin.energy/maps/search_map?x=-71.96065254749142...`. The page header includes the Gridtwin logo, navigation links (Home, My Projects, Search, Map, More), the user email `julia@gridtwin.energy`, and a `Log Out` button.

The main content area is divided into three sections:

- Map (1):** A map view showing a geographic area with various layers. The `Open Area` layer is selected, indicated by a blue checkmark in the legend. Other layers include Utility, Wetlands, Brownfield, Environmental, Conservation, Saved Projects, 3P Distribution, Substations, Transmission, Streets, Terrain, and Satellite.
- Search Panel (2):** A panel on the right side of the map, titled `Search`, with a `Save` button. It contains several filter options:
 - Utility Territory:** A dropdown menu set to `All`.
 - Min Capacity:** A dropdown menu set to `0.500 MW`.
 - Max Capacity:** A dropdown menu set to `10.000 MW`.
 - Min Parcel Size:** A dropdown menu set to `1 Acre`.
 - Max Parcel Size:** A dropdown menu set to `50 Acres`.
 - Available Line Hosting Capacity MW-AC:** A dropdown menu set to `1.000 MW`.
 - Available Substation Capacity MW-AC:** A dropdown menu set to `1.000 MW`.
 - Max Distance from 3P Feeder (meters):** A dropdown menu set to `1000 meters`.
 - Max Distance from Substation (meters):** A dropdown menu set to `3500 meters`.
 - Max Elevation Slope:** A dropdown menu.
- Legend (3):** A legend on the left side of the map, listing various layers and their corresponding colors. The `Open Area` layer is highlighted with a blue checkmark.

Search: Map-based Filtering

1. After panning and zooming to your area of interest on the map, display the Open Area layer to see available parcels
2. The Search tab allows you to filter out all parcels that don't meet your needs
3. The map-based search function utilizes many of the same helpful criteria as your previous search method

g Map and Search - gridtwin

gridtwin Home My Projects Search Map More

julia@gridtwin.energy Log Out

Search

- Utility
- Wetlands
- Brownfield
- Environmental
- Conservation
- Open Area
- Saved Projects
- 3P Distribution
- Substations
- Transmission
- Streets
- Terrain
- Satellite

Parcel Details:
Link

Available Line Hosting Capacity MW-AC
1,000 MW

Available Substation Capacity MW-AC
1,000 MW

Max Distance from 3P Feeder (meters)
500

Max Distance from Substation (meters)
3500 meters

Max Elevation Slope
10 degrees

Max Interconnect Cost (USD)
500,000

Under System or Group Study?
 All Yes No

FERC Jurisdictional Feeder?
 All Yes No

Filter Sites Save as Report

Search: View Sites

1. After inputting your desired criteria, scroll down in the search tab and select 'Filter Sites' to only view relevant parcels
2. Other map layers can be selected to help narrow your search as you see fit
3. Click on any parcel of interest and select its 'Link' to view further parcel details, save it, and proceed in any analyses

Additional Support

1. Additional help material will always be available on our website; to find this, navigate to 'More' -> 'Help and Support' from the top menu bar.
2. Please reach out via email with any questions or concerns
3. This .ppt will be sent out via email for reference



gridtwin

SOFTWARE FOR RENEWABLES INTERCONNECTION

www.gridtwin.energy

