

Renewable Resource Atlas Portal

Service Catalogue

2026

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Introduction

The Renewable Resource Atlas platform, established by King Abdullah City for Atomic and Renewable Energy (K.A.CARE), is a specialized digital platform designed to provide recent historical data on the Kingdom's solar and wind resources. The platform serves as a centralized hub providing stakeholders with the data essential for advancing sustainable energy infrastructure.

By synthesizing ground-based station measurements with advanced satellite-modeled data, the Atlas platform enables developers, researchers, and entities to optimize project siting and significantly reduce uncertainty in energy production estimates. This service catalogue serves as a formal guide to navigating the platform's technical ecosystem and accessing its suite of renewable energy services.

Service User Guide

Home Page

To access Atlas, open the Renewable Resource Atlas platform by clicking on the following link: <https://reatlas.energy.gov.sa/en>

Once the link is opened, the platform home page will be displayed (Figure 1). From here, users can begin navigating through the platform features and services.

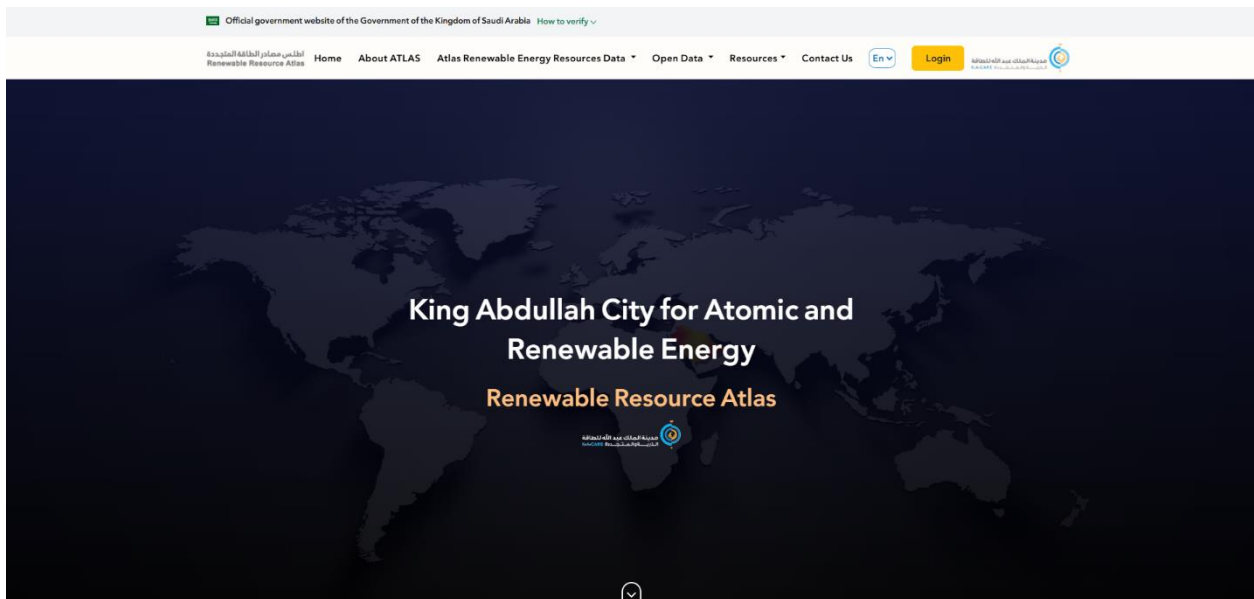


Figure 1: Atlas Home Page



On the home page, look for the expandable arrow located below the main interface. Click on the expandable arrow to reveal the full list of available services. After expanding the menu, users can browse the available services (Figure 2), which include:

- Solar Ground Stations
- Wind Ground Stations
- Solar Irradiance Estimation with Neural Network Algorithm (SIENNA) Model
- Typical Meteorological Year (TMY)

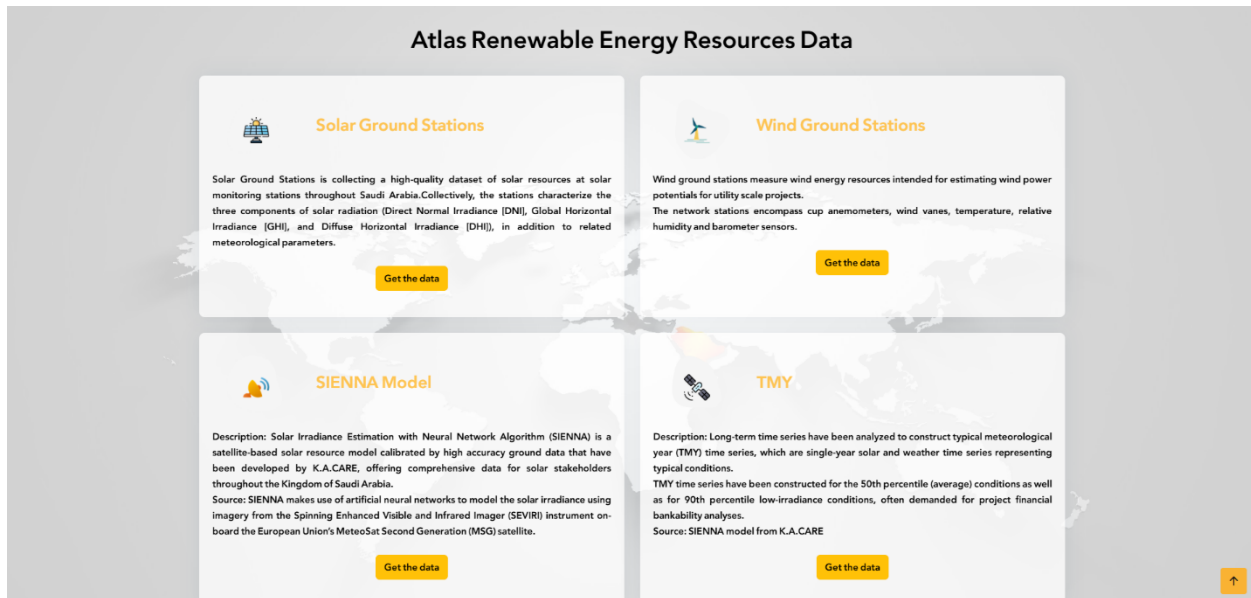


Figure 2: Atlas Renewable Energy Resources Data

About ATLAS

To learn more about the Kingdom's strategic goals for renewable energy and the technical specifications of the monitoring network, navigate to the top navigation bar of the platform.

Locate and click on the “About ATLAS” section (Figure 3).

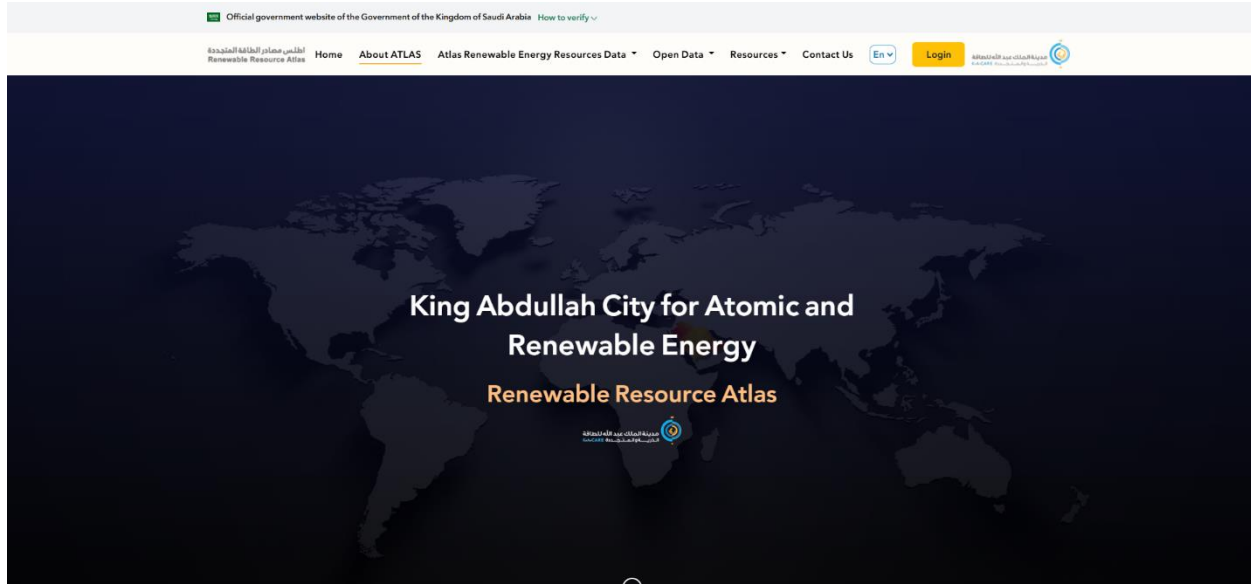


Figure 3: About ATLAS Tab

After clicking, the “About ATLAS” page will open (Figure 4). This page provides information on:

- Why is the Renewable Resource Atlas needed?
- What is contained in the Renewable Resource Atlas?

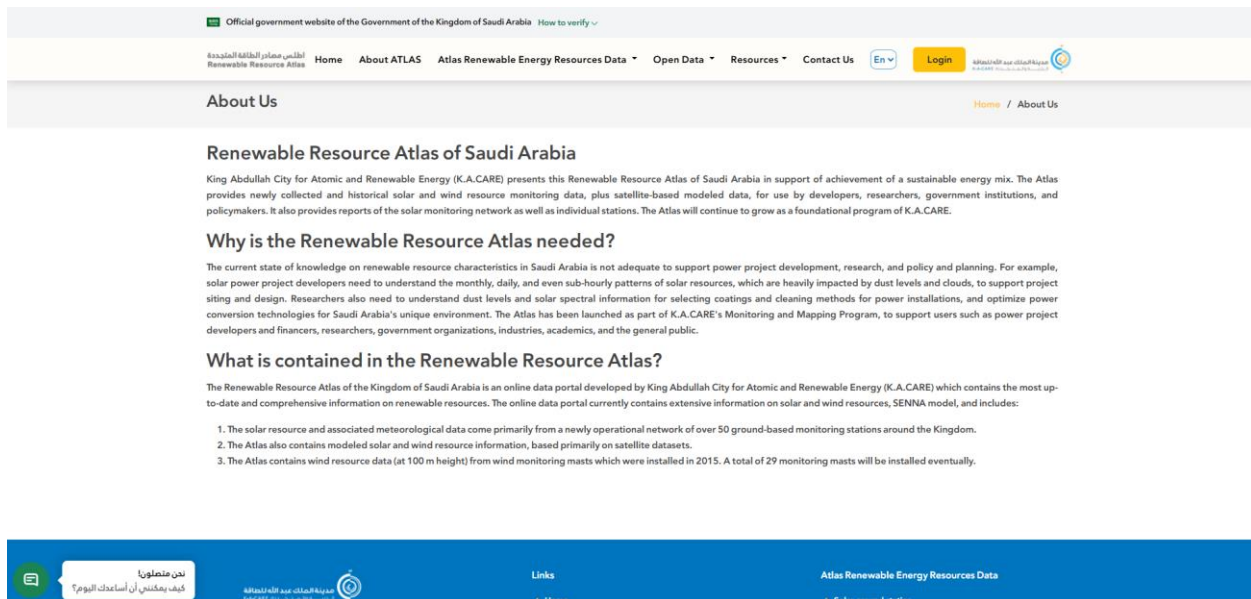


Figure 4: About ATLAS Page



Sign Up

To create a new account, navigate to the top-right corner of the platform and click on the “Login” button (Figure 5).

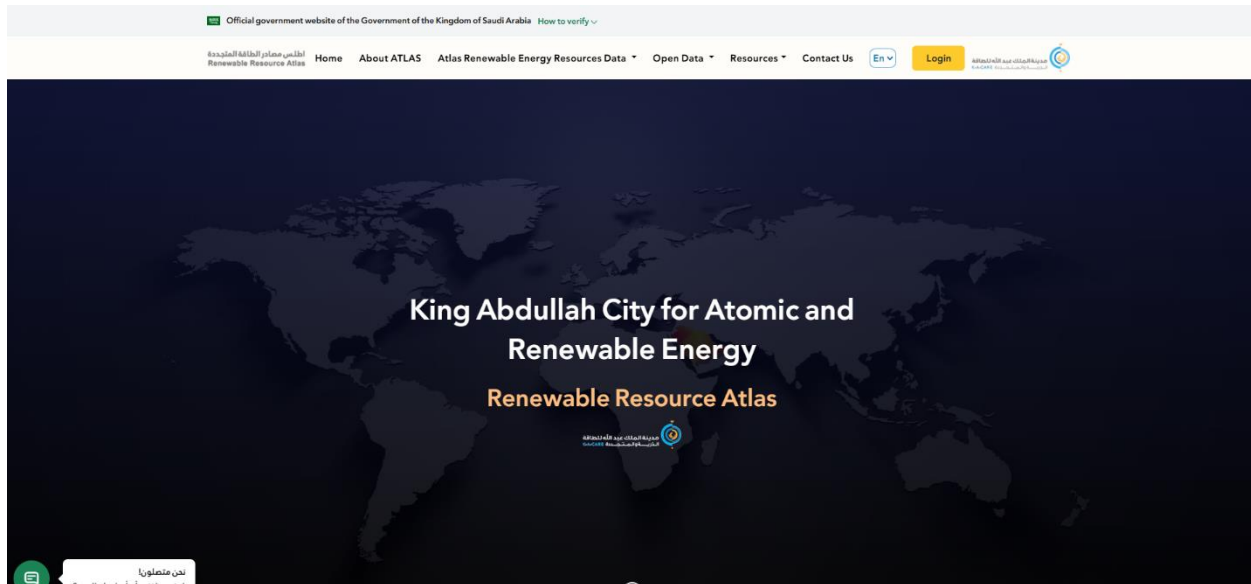


Figure 5: Login Tab

On the login page, click on: “If you don’t have Nafath Account please click [Here](#)” (Figure 6).

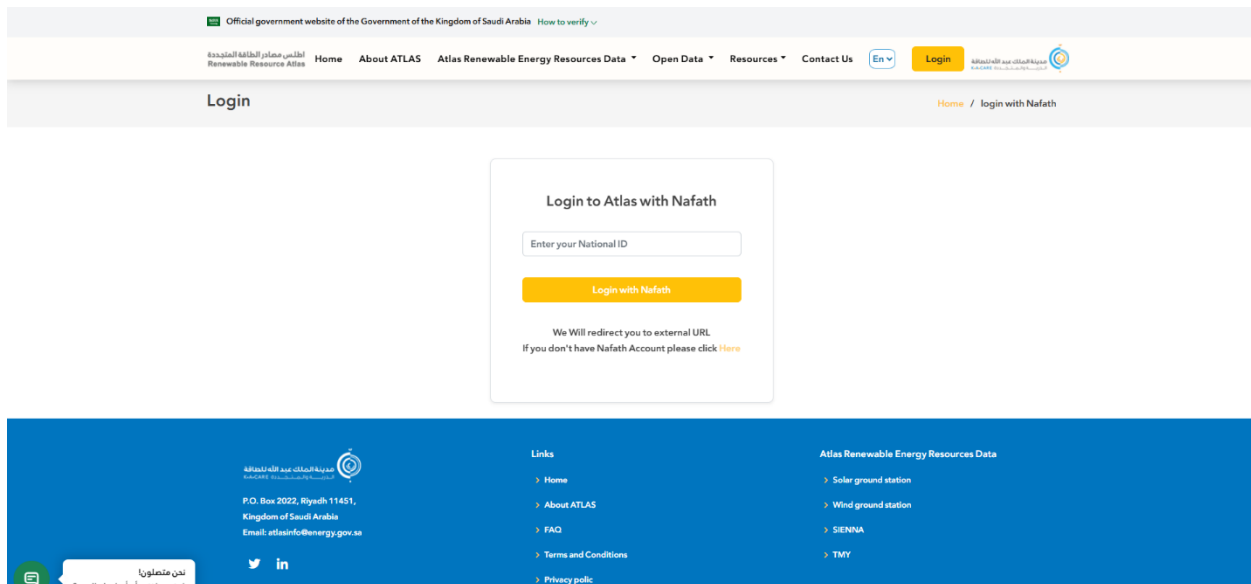


Figure 6: Sign Up Process



Then, click on “Sign up” (Figure 7).

The screenshot shows the official government website of the Kingdom of Saudi Arabia. The header includes the K.A.CARE logo and navigation links: Home, About ATLAS, Atlas Renewable Energy Resources Data, Open Data, Resources, Contact Us, En, and Login. The main content area features a 'Login to Atlas' form with fields for Email and Password, a 'Remember me?' checkbox, a 'Forgot Password?' link, and a 'Login' button. Below the login form is a link for 'Don't have an account? Sign up'. The footer contains contact information, links to Home and About ATLAS, and a section for 'Atlas Renewable Energy Resources Data' with links to Solar ground station and Wind ground station.

Figure 7: Sign Up Process

Once selected, the registration form page will open. Enter the required information in the registration form fields. Ensure all mandatory fields are completed accurately (Figure 8).

After completing the form, click on the “Register” button to submit the information.

The screenshot shows the 'Register' form on the Atlas Renewable Energy Resources Data website. The form includes fields for Registration Type (Please Select), First Name, Last Name, Email, Nationality (Please Select), Passport or ID, Gender (Please Select), Region, City, Occupation, Organization, Phone Number, Telephone Number, Password, and Confirm Password. There are also checkboxes for 'Hear About Us' (Please Select), 'Receive newsletter about RE and Atlas Updates', 'I certify that all my information is correct', and 'I agree to the privacy policy'. A 'Register' button is at the bottom right of the form.

Figure 8: Registration Form



After submission, a verification email will be sent to the registered email address.

Open the email and follow the instructions to activate the account.

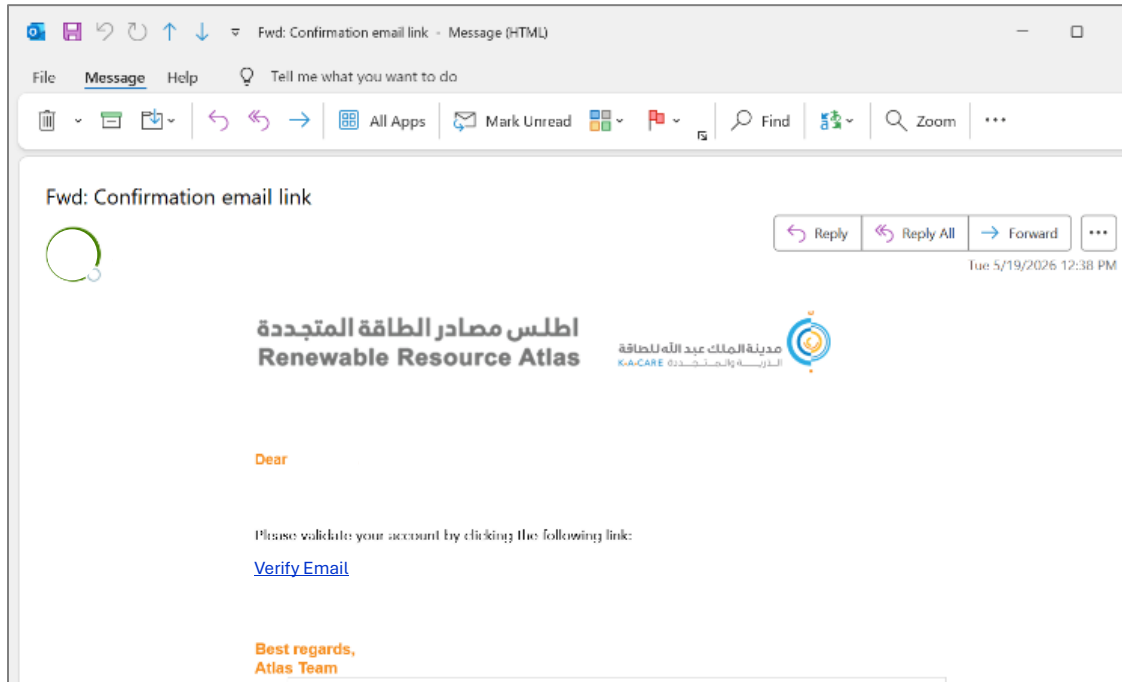


Figure 9: Email verification

Once the email is successfully verified, the account will be activated. The user can now use the account credentials to log in directly to the platform.

Log In

Users can access the Renewable Resource Atlas platform using one of two sign-in methods:

- Nafath (Single Sign-in)
- Email Account

Option 1: Log in via Nafath

Click on the “Login” button located at the top-right corner of the platform (Figure 10).

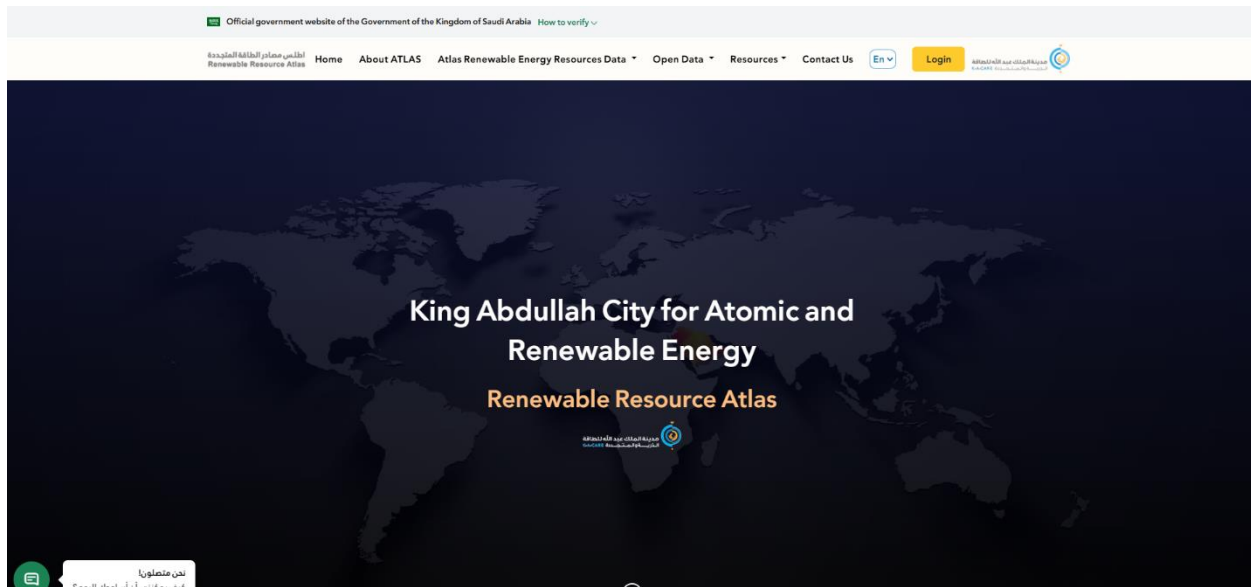


Figure 10: Login Tab

Proceed with the Nafath authentication process as prompted (e.g., via the Nafath mobile application) (Figure 11).

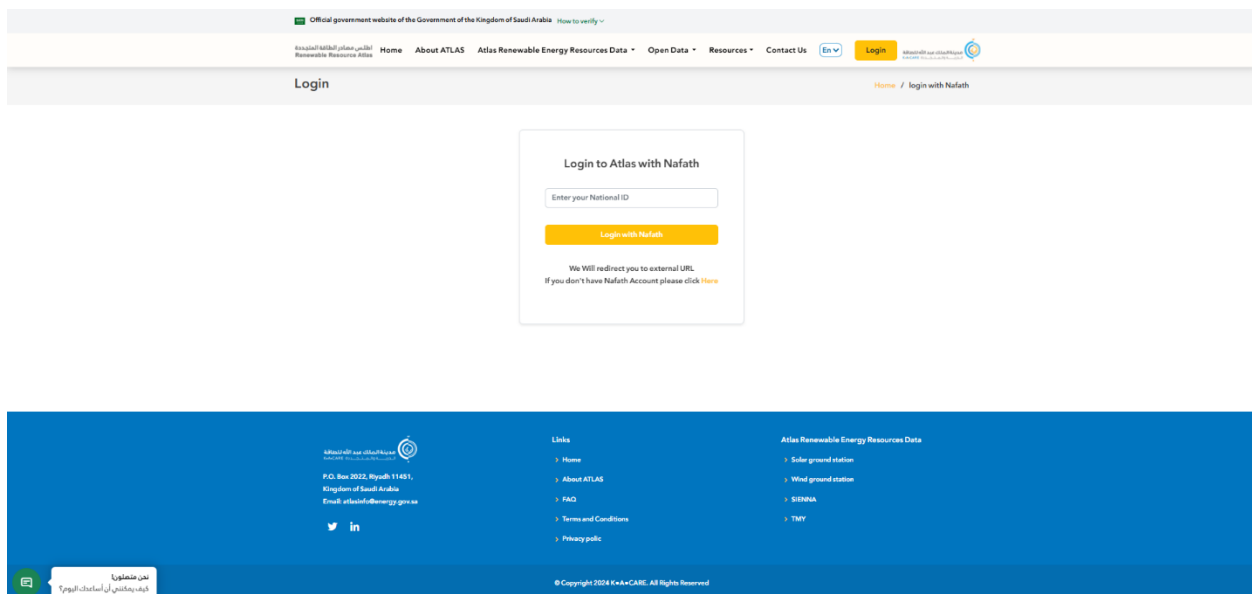


Figure 11: Login via Nafath



Once verification is successful, the user will automatically log in and redirect to the platform.

Option 2: Sign in via email

On the login page, click on the “If you don’t have Nafath Account please click [Here](#)” to sign in using an email account (Figure 12).

The screenshot shows the official government website of the Kingdom of Saudi Arabia. The header includes navigation links: Home, About ATLAS, Atlas Renewable Energy Resources Data, Open Data, Resources, and Contact Us. A 'Login' button is visible. The main content area is titled 'Login' and features a 'Login to Atlas with Nafath' section. This section has a text input field for 'Enter your National ID', a yellow 'Login with Nafath' button, and a message: 'We Will redirect you to external URL. If you don't have Nafath Account please click [Here](#)'. The footer contains contact information, social media links, and a list of links including Home, About ATLAS, FAQ, Terms and Conditions, Privacy policy, and Atlas Renewable Energy Resources Data (Solar ground station, Wind ground station, SIENNA, TMY).

Figure 12: Login via email

Enter the registered email address and password in the provided fields. Then, click on the “Login” button to proceed (Figure 13).

The screenshot shows the same official government website. The main content area is titled 'Login' and features a 'Login to Atlas' section. This section has text input fields for 'Email' and 'Password', a 'Remember me?' checkbox, a yellow 'Login' button, and a link for 'Don't have an account? [Sign up](#)'. The footer is identical to Figure 12, including contact information, social media links, and a list of links.

Figure 13: Login via email



An OTP (One-Time Password) will be sent to the registered email address. Enter the received code in the designated field to complete the login process (Figure 14).

The screenshot shows the 'Login Two Step' page of the Atlas Renewable Energy Resources Data portal. The page has a white header with navigation links: Home, About ATLAS, Atlas Renewable Energy Resources Data, Open Data, Resources, and Contact Us. A 'Login' button is visible in the top right. Below the header, the page title 'Login Two Step' is displayed. The main content area features a 'Two Step Verification' box with the instruction 'Enter the code that was sent to your email' and six input fields for the OTP code. The footer is blue and contains contact information for the King Abdullah City for Atomic and Renewable Energy (K.A.CARE), including the address (P.O. Box 2022, Riyadh 11451, Kingdom of Saudi Arabia) and email (atlasinfo@energy.gov.sa). It also lists links to Home, About ATLAS, FAQ, Terms and Conditions, and Privacy policy, as well as data links for Solar ground station, Wind ground station, SIENNA, and TMY. A chatbot icon is present in the bottom left corner.

Figure 14: Two Step Verification Process

After successful verification, the user will be granted access to the Renewable Resource Atlas services.



Atlas Renewable Energy Resource Data

The Renewable Resource Atlas platform provides access to Atlas Renewable Energy Resource Data through the toolbar located at the top of the browser (Figure 15).

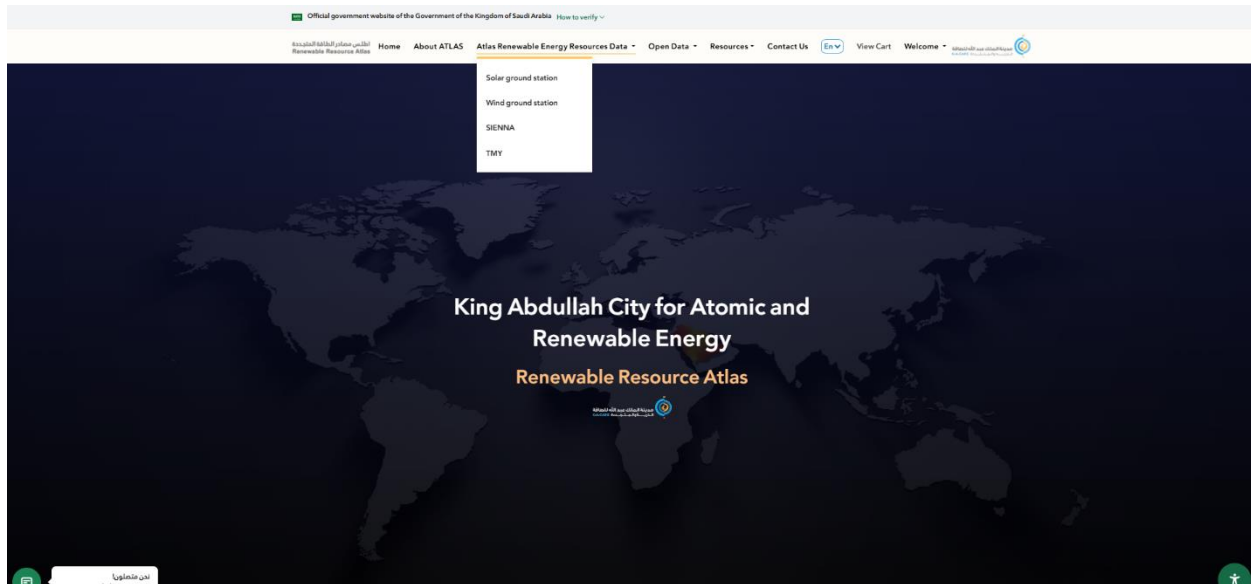


Figure 15: Atlas Renewable Energy Resource Data Tab

The following services are available under this section:

- Solar Ground Stations Service
- Wind Ground Stations Service
- SIENNA
- TMY



i. Solar Ground Stations Service

The Solar Ground Stations Service provides high-quality datasets of solar resources collected from monitoring stations across Saudi Arabia. The stations measure the following solar radiation components Direct Normal Irradiance (DNI), Global Horizontal Irradiance (GHI), and Diffuse Horizontal Irradiance (DHI), in addition to related meteorological parameters.

The table below demonstrates the parameters calculated within this service.

Basic Solar Parameters	Advanced Solar Parameters	
Air Temperature	Downwelling Infrared	Wind speed at 10m (std dev)
Wind Direction at 3m	Horizontal Visibility	Upwelling Infrared
Wind Direction at 3m (std dev)	Peak Wind Direction at 10m	Upwelling Shortwave
Wind speed at 3m	Peak Wind Direction at 3m	
Wind speed at 3m (std dev)	Peak Wind Speed at 10m	
Azimuth Angle	Dewpoint Temperature	
Relative Humidity	Global PAR	
Barometric Pressure	Global Tilt Irradiance	
Diffuse Horizontal Irradiance (DHI)	Global UVA	
Direct Normal Irradiance (DNI)	Global UVB	
Global Horizontal Irradiance (GHI)	Precipitation	
Zenith Angle	Wind Direction at 10m	
Peak Wind Speed at 3m	Wind Speed at 10m	

* Reference: Atlas website

To begin the data request process, click on “Request Service” (Figure 16).

Official government website of the Government of the Kingdom of Saudi Arabia

الطاقة المتجددة Atlas Renewable Resource Atlas

Home About ATLAS Atlas Renewable Energy Resources Data Open Data Resources Contact Us En View Cart Welcome

Solar Ground Station

Solar Ground Stations is collecting a high-quality dataset of solar resources at solar monitoring stations throughout Saudi Arabia. Collectively, the stations characterize the three components of solar radiation (Direct Normal Irradiance [DNI], Global Horizontal Irradiance [GHI], and Diffuse Horizontal Irradiance [DHI]), in addition to related meteorological parameters.

For support or to request access to the service, contact: atlasinfo@energy.gov.sa.

Request Service

Service Information

- Service Duration**
1 business day
- Target Audience**
Citizen, Government, Business
- Service Cost**
- Beneficiaries**
Citizen, Resident, Visitor, Companies

About the Service **Terms & Requirements** **How to Apply**

1. Click on the service link
2. Hover over "Data Actions", then select Solar Station
3. Select your desired station
4. Set the location and click continue
5. Fill in to submit the request

Figure 16: Request Service



On this page, the user can explore the pricing details by navigating to Service Cost section, clicking on “Pricing” within that section to review the full breakdown of fees before proceeding (Figure 17).

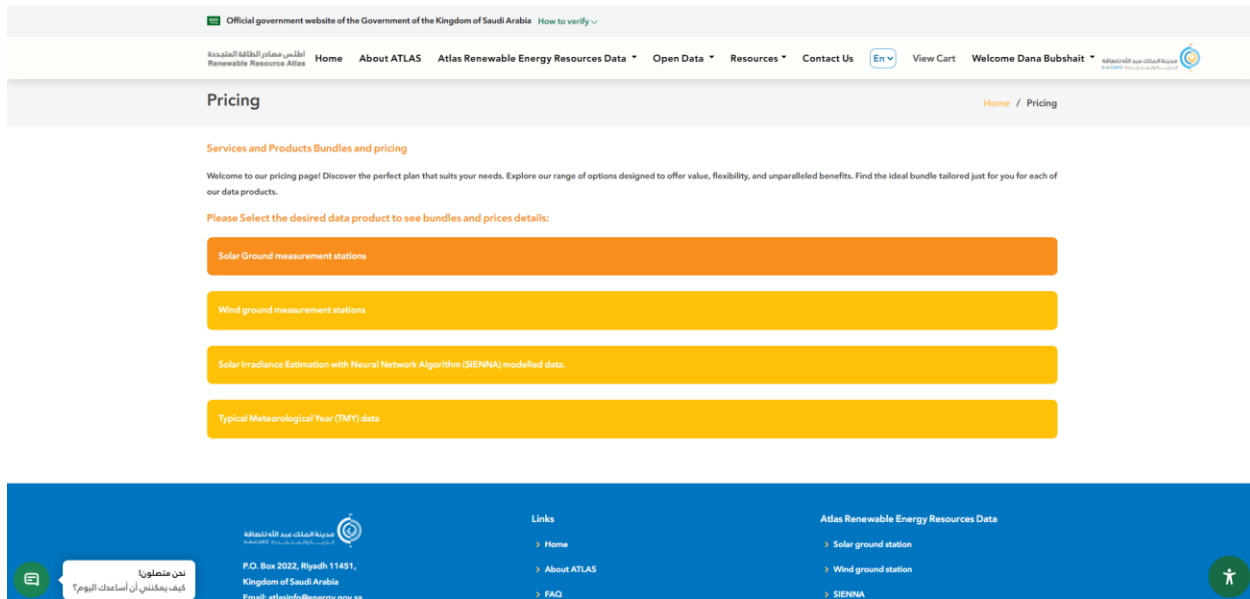


Figure 17: Pricing Details

The service page will open where the user is able to select the station name and choose the required data parameters (Figure 18).

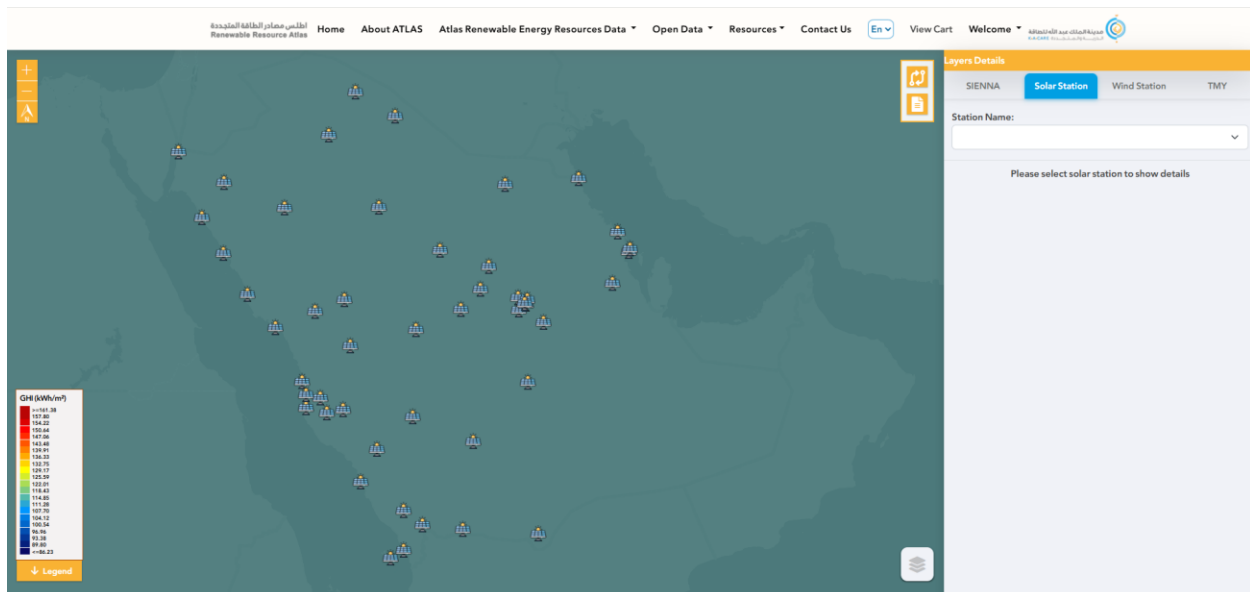


Figure 18: Solar Station Selection



After selecting a station, detailed information about the station will be displayed (Figure 19).



Figure 19: Solar Station Details

Click on “[Dashboard](#)” to (Figure 20):

- Define aggregation level
- Select time range
- Customize parameters
- Display charts

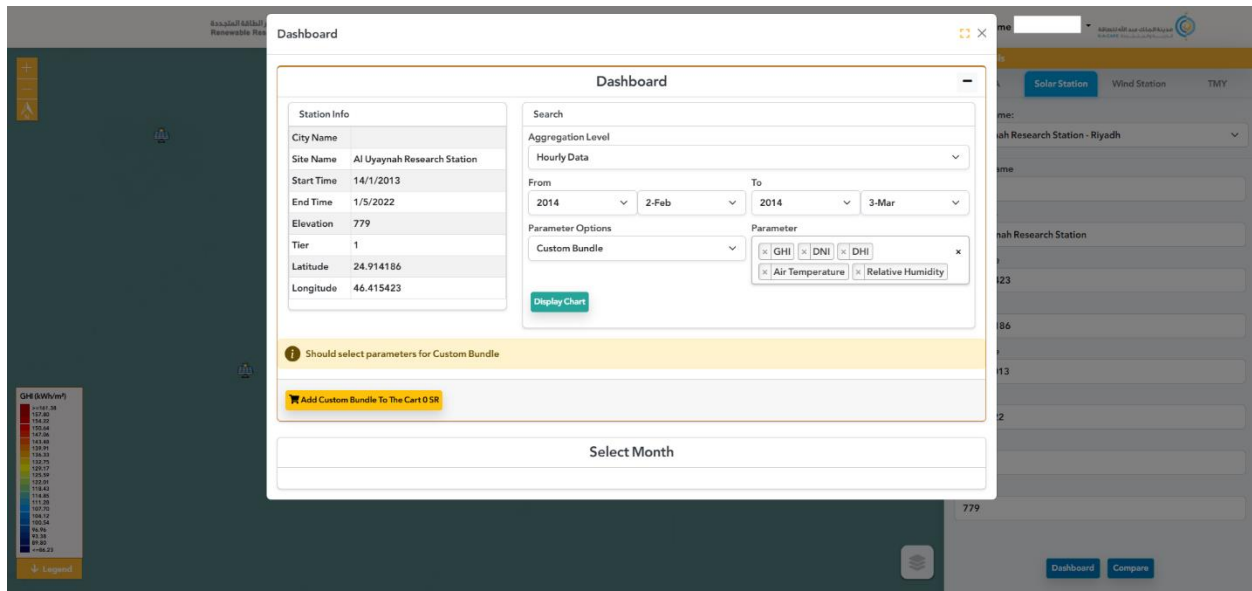


Figure 20: Dashboard Configuration



The user can either view the data through dashboards within the platform or proceed with downloading the dataset (Figure 21).

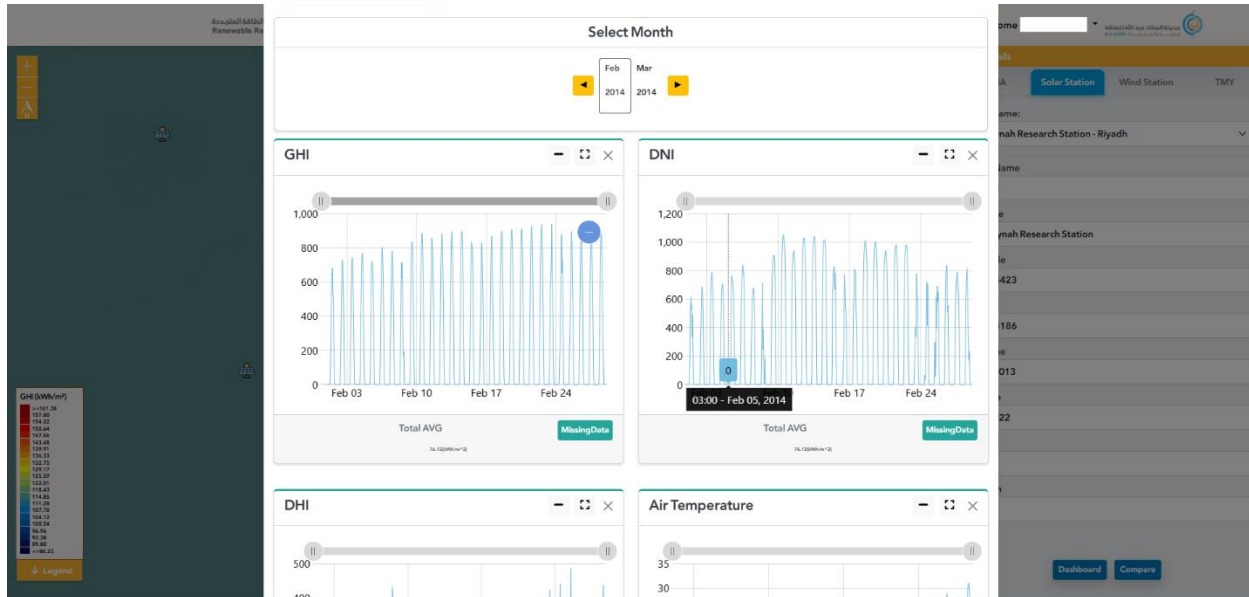


Figure 21: Display Charts

Once the data configuration is complete, submit the request by “Add Custom Bundle to Cart” and the request will be added to the cart (Figure 22).

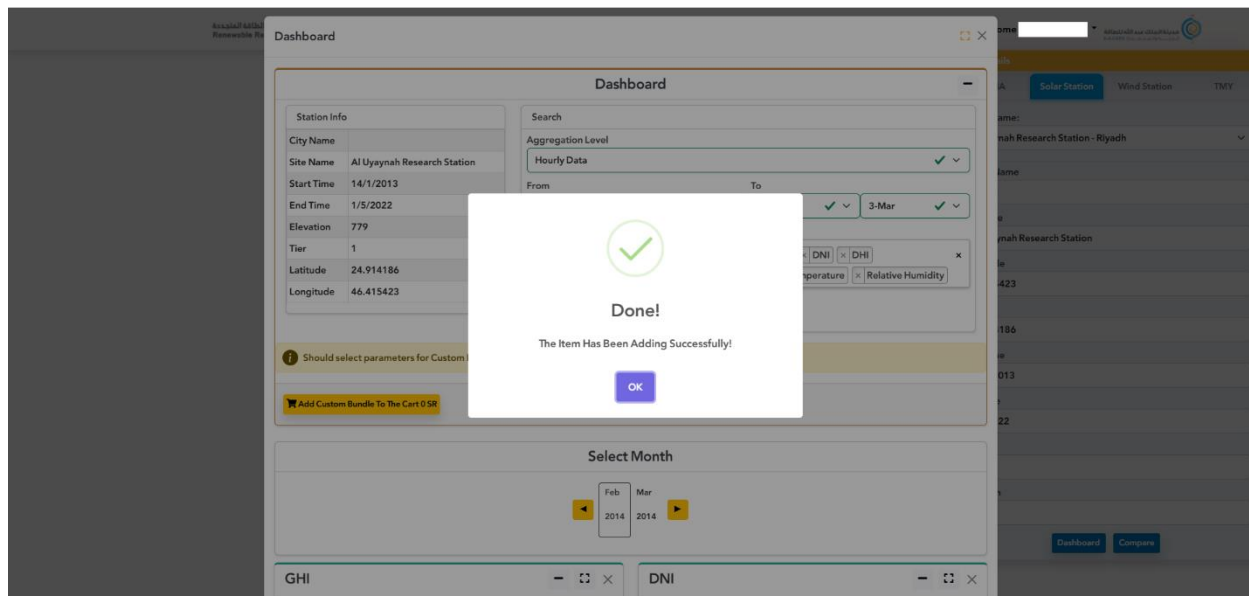


Figure 22: Add Item to Cart

Proceed to “View Cart” in the top-right corner of the browser to complete the payment process through the “Checkout” button (Figure 23).

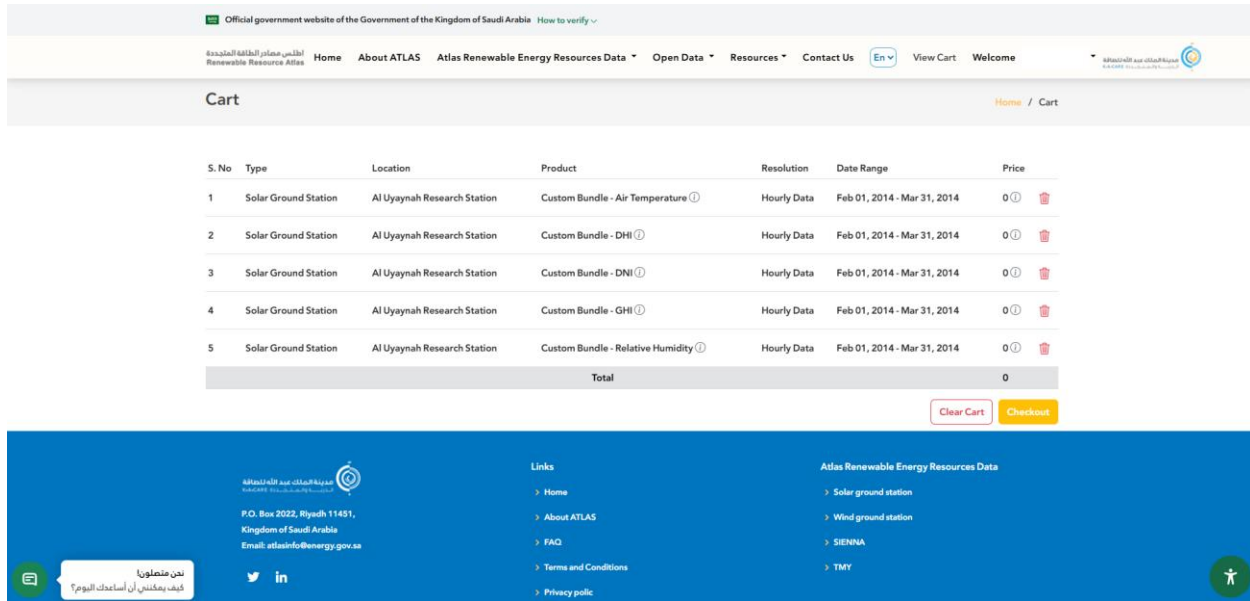


Figure 23: View Cart

On the orders page, the user can view list of items requested. Click on ⓘ icon next to the product name to view the specific attribute order details (Figure 24).

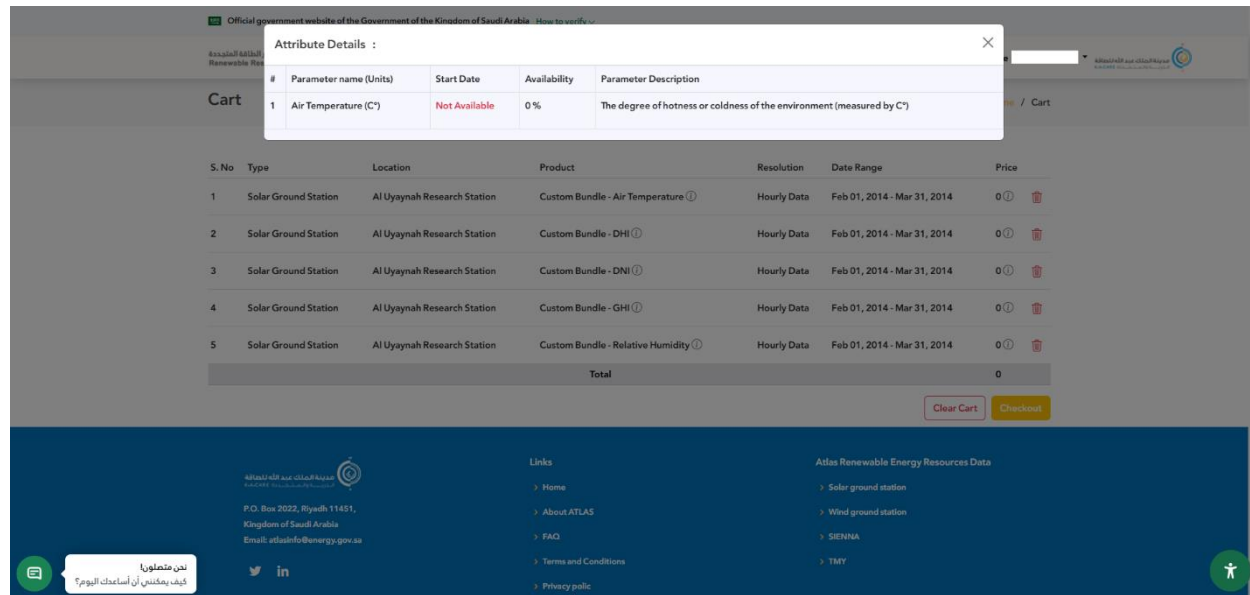


Figure 24: View Order Details



Click on ⓘ icon next to the price to view a breakdown of cost details (Figure 25).

Pricing Per Month	User Type Discount %	User Type Discount Price	Time Period Discount %	Time Period Discount Price	No. Of Stations Discount %	No. Of Stations Discount Price	Total Discount Price	Total Price Per Month	Selected Duration Month(s)	Final Price (Selected Duration)
145.00	100	145.00	N/A	N/A	N/A	N/A	145.00	0	2	0

Figure 25: View Price Details

To proceed with confirming the order, click on “Checkout”. A popup message will appear to verify the user request (Figure 26).

S.No	Type	Location	Product	Resolution	Date Range	Price
1	Solar Ground Station	Al Uyaynah Research Station	Custom Bundle - Air Temperature ⓘ	Hourly Data	Feb 01, 2014 - Mar 31, 2014	0 ⓘ
2	Solar Ground Station	Al Uyaynah Research Station	Custom Bundle - DHI ⓘ	Hourly Data	Feb 01, 2014 - Mar 31, 2014	0 ⓘ
3	Solar Ground Station	Al Uyaynah Research Station	Custom Bundle - DNI ⓘ	Hourly Data	Feb 01, 2014 - Mar 31, 2014	0 ⓘ
4	Solar Ground Station	Al Uyaynah Research Station	Custom Bundle - GHI ⓘ	Hourly Data	Feb 01, 2014 - Mar 31, 2014	0 ⓘ
5	Solar Ground Station	Al Uyaynah Research Station	Custom Bundle - Relative Humidity ⓘ	Hourly Data	Feb 01, 2014 - Mar 31, 2014	0 ⓘ
Total						0

Figure 26: Checkout Process



Once verified, the user can view the quotation document (Figure 27), then proceed to the next step to place the order by clicking “Next Step”.

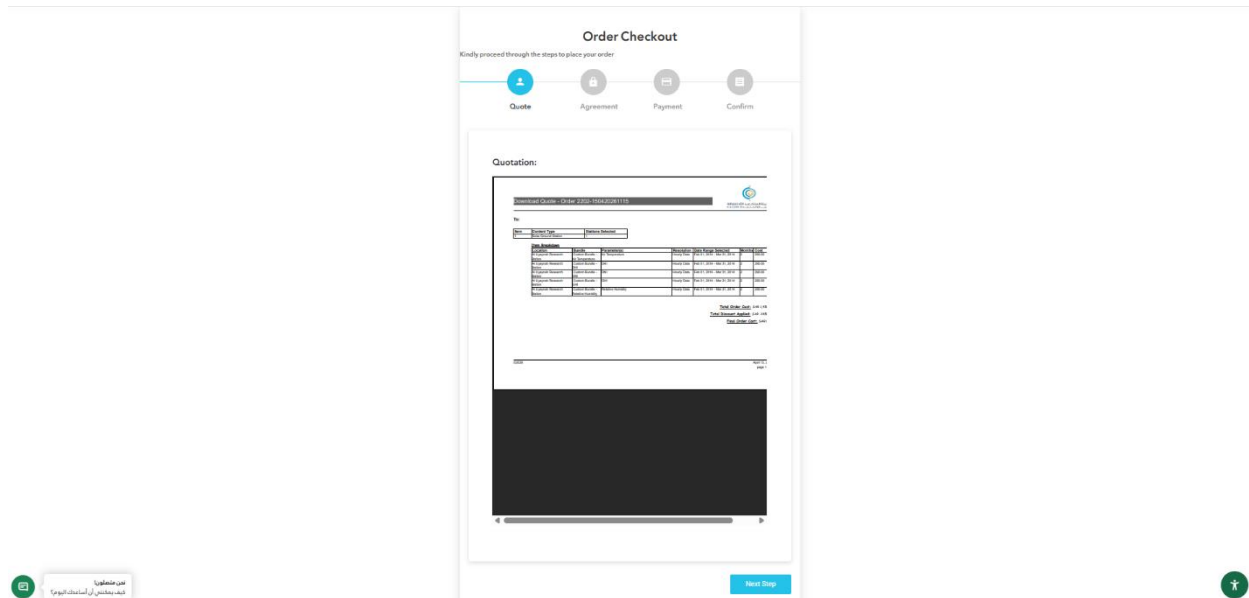


Figure 27: Order Quotation

The user reviews the agreement and checks the box to agree and process the order (Figure 28).

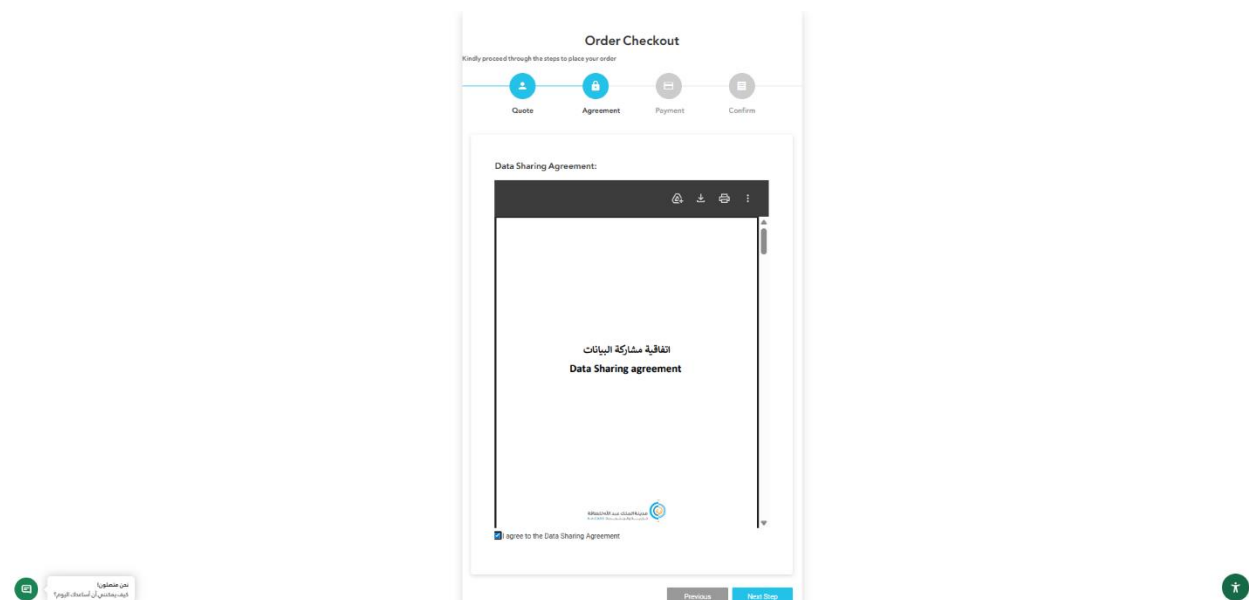


Figure 28: Data Sharing Agreement



The user shall follow the on-screen payment instructions (Figure 29).

Order Checkout

Kindly proceed through the steps to place your order

Quote Agreement Payment Confirm

Payment Information:

Thank you for using Atlas Data order service, please find below the payment information: For paid orders, Atlas team will issue a SADAD invoice to your order within one business day, and you will receive an email once it is issued, the email will contain all payment details. For any further questions regarding the payment, please visit our Contact Us page, Atlas team will be happy to support you!

Previous Next Step

Figure 29: Payment Process

Review the final order details and click on “Submit” (Figure 30).

Order Checkout

Kindly proceed through the steps to place your order

Quote Agreement Payment Confirm

Confirm :

Full Name:

Email Address:

Phone Number:

By pressing "Submit", I agree to:

1. The final price mentioned in the Quote
2. All the Terms & Conditions in the Data Sharing Agreement
3. Use the specified method of payment

Previous Submit

Figure 30: Order Confirmation



Once the order request is approved, locate the automated email sent to the user email inbox. This email confirms that the order is ready to be downloaded (Figure 31).

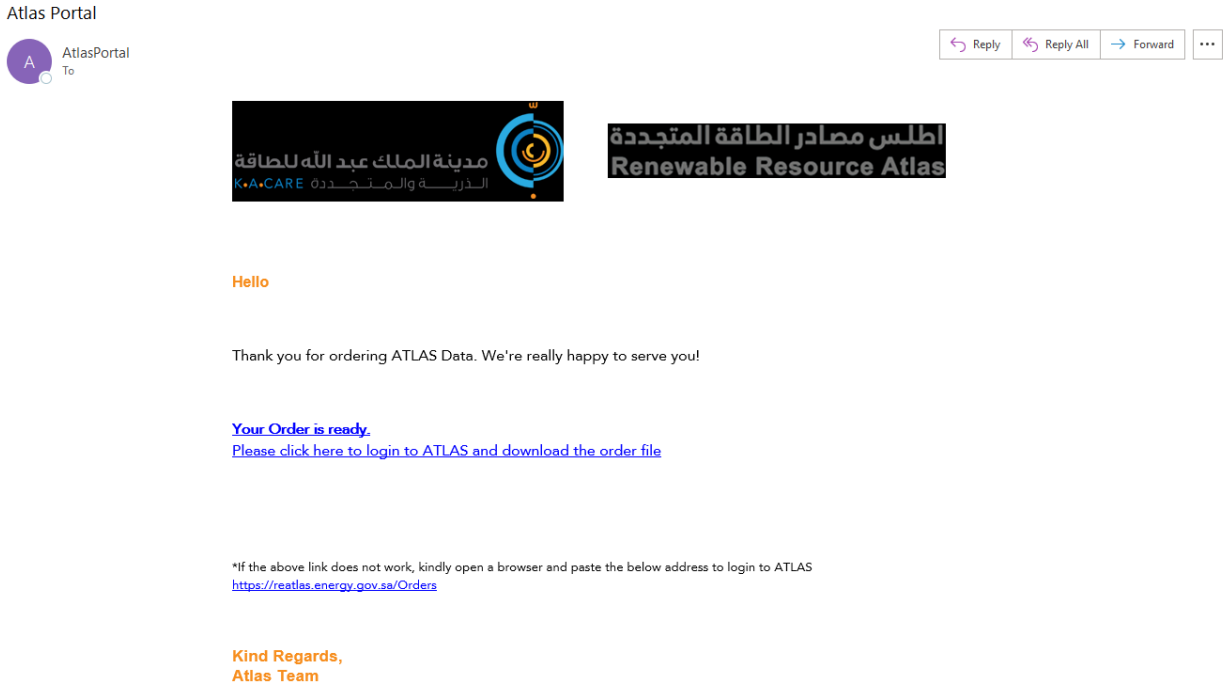


Figure 31: Approved Request Email

Click the access link provided within the email body, which will open the platform in the web browser. Locate the specific request in the order list. On the right-hand side of the order, click “Actions” button. Select the “Download” option from the menu to save the request files on your device (Figure 32).

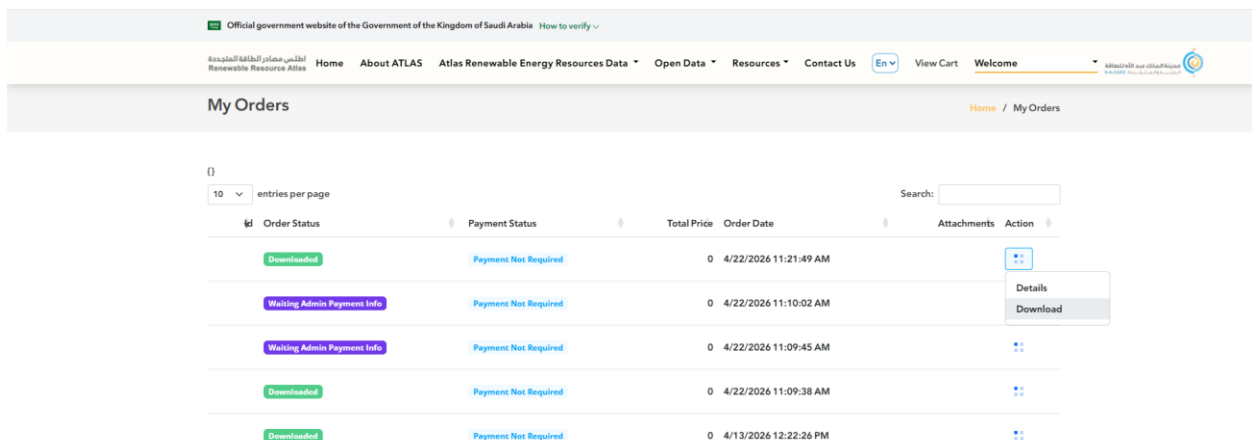


Figure 32: Download Menu



Alternatively, navigate to the top-right corner of the browser window and click on the Profile tab, then “My Orders” tab (Figure 33).

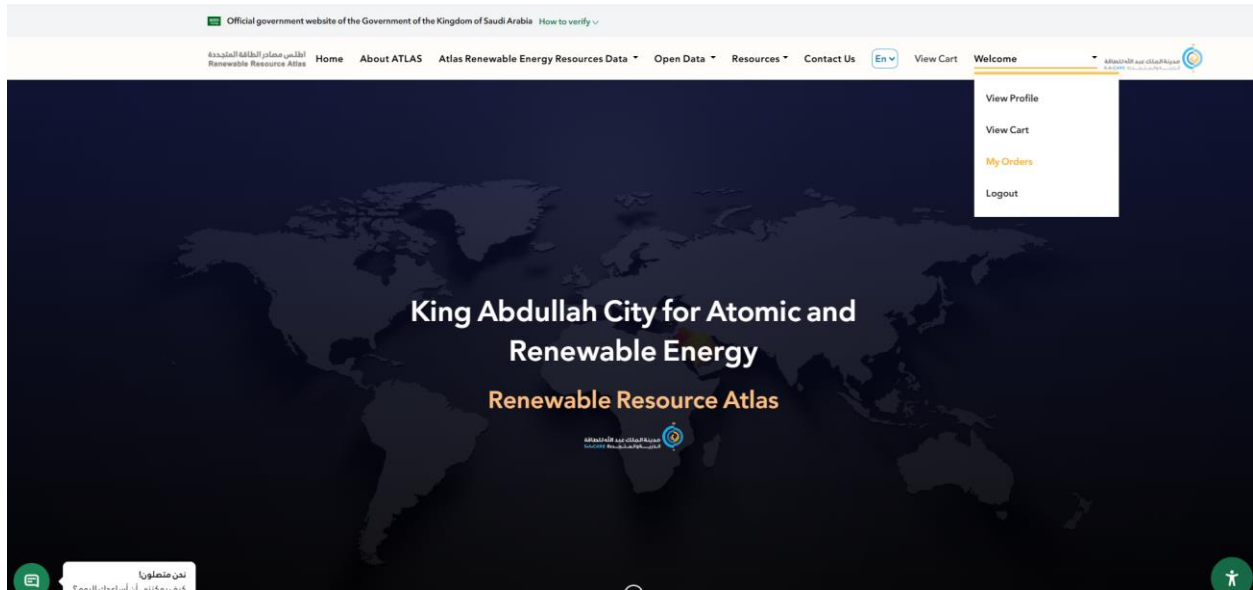


Figure 33: My Orders Tab

Locate the specific request in the order list. On the right-hand side of the order, click “Actions” button. Select the “Download” option from the menu to save the request files on your device (Figure 34).

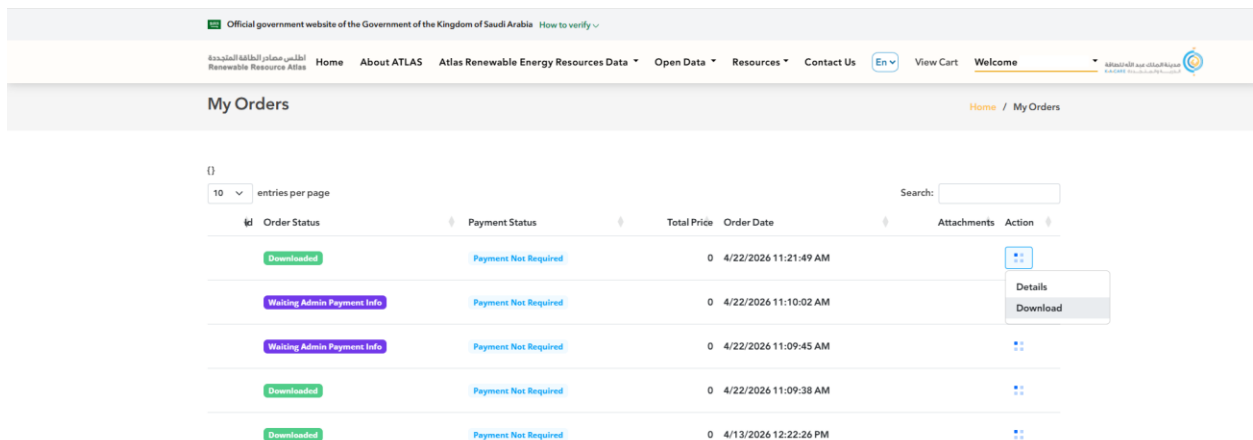


Figure 34: Download Menu



In the Atlas platform, there is a feature that allows users to compare two stations and analyze their behavior. To begin using this service, click on “Request Service” (Figure 36).

Official government website of the Government of the Kingdom of Saudi Arabia

Home About ATLAS Atlas Renewable Energy Resources Data Open Data Resources Contact Us En View Cart Welcome

Solar Ground Station

Solar Ground Stations is collecting a high-quality dataset of solar resources at solar monitoring stations throughout Saudi Arabia. Collectively, the stations characterize the three components of solar radiation (Direct Normal Irradiance [DNI], Global Horizontal Irradiance [GHI], and Diffuse Horizontal Irradiance [DHI]), in addition to related meteorological parameters.

For support or to request access to the service, contact: atlasinfo@energy.gov.sa.

Request Service

Service Information

- Service Duration: 1 business day
- Target Audience: Citizen, Government, Business
- Service Cost: Pricing
- Beneficiaries: Citizen, Resident, Visitor, Companies

How to Apply

- Click on the service link
- Hover over "Data Actions", then select Solar Station
- Select your desired station
- Set the location and click continue

1 من 1 في 10 لإرسال الطلب

Figure 36: Request Service

Select the first station name, then click on “Compare” to select the second station from the map (Figure 37).

Home About ATLAS Atlas Renewable Energy Resources Data Open Data Resources Contact Us En View Cart Welcome

Layers Details

SIENNA Solar Station Wind Station TMY

Station Name: Abha Technical Institute - Abha

Region Name: Asseer

Site Name: Abha Technical Institute

Longitude: 42.546

Latitude: 18.2227

Start Time: 1/6/2015

End Time: 1/5/2022

Tier: 1

Elevation: 2173

Dashboard Compare

Figure 37: Compare Process



Afterwards both stations datasets are available for comparison, click on “Start Compare” (Figure 38).

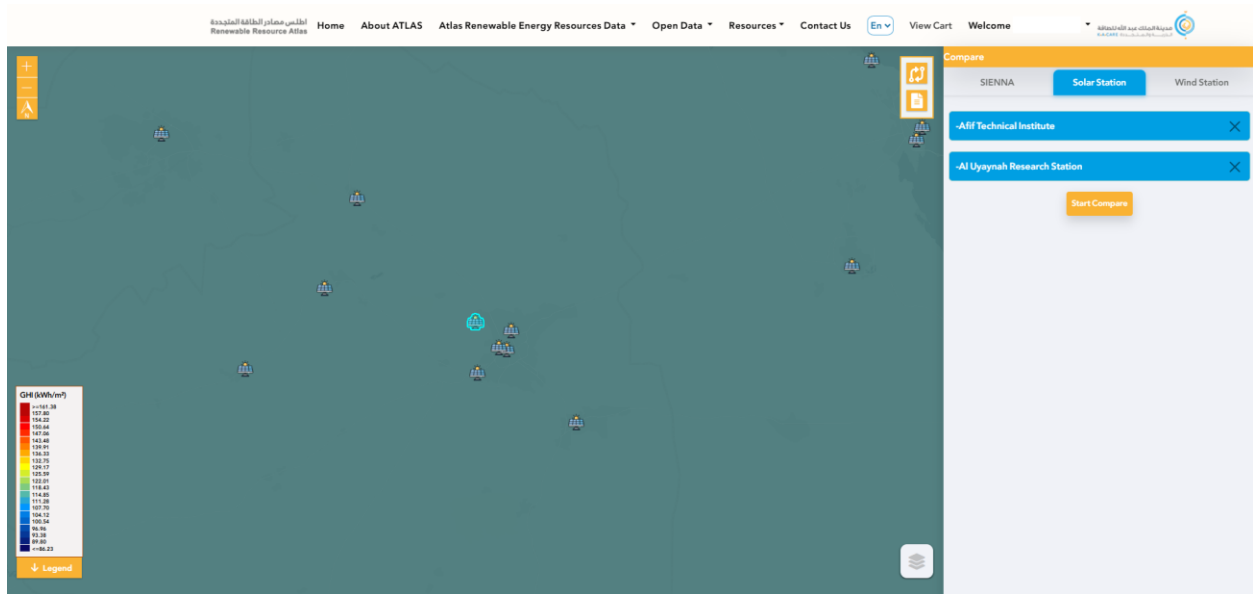


Figure 38: Start Compare Process

Then the “Dashboard” configuration open, where the user can (Figure 39):

- Define aggregation level
- Select time range
- Customize parameters
- Display charts

The data can only be viewed through the comparison feature and not downloaded.

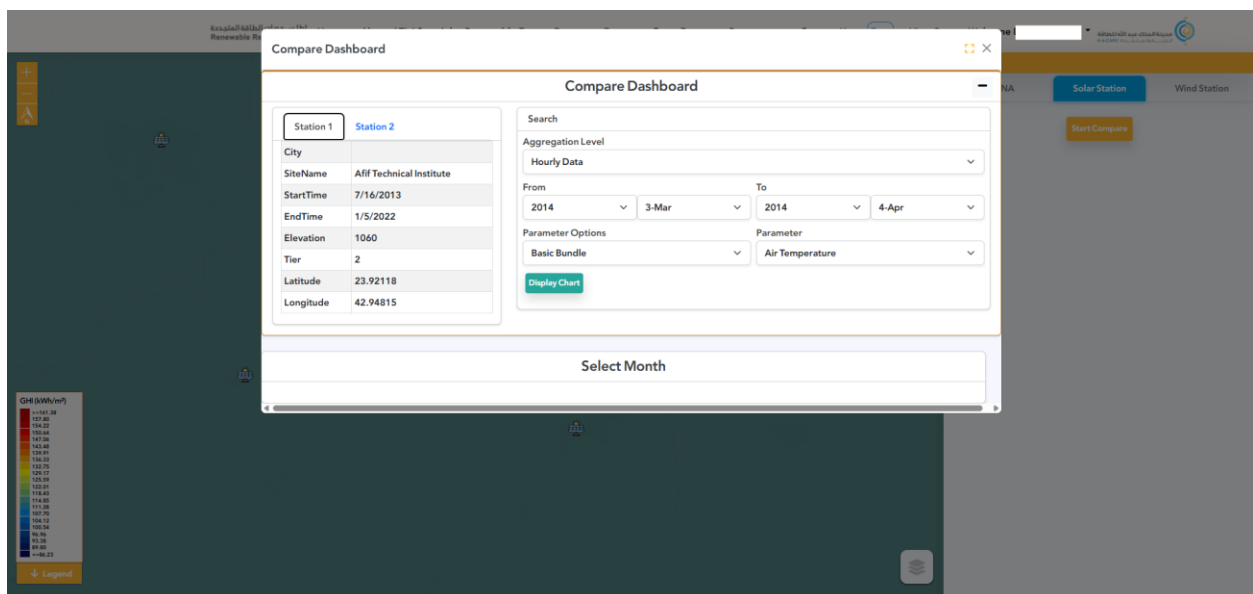


Figure 39: Dashboard Configuration



ii. Wind Ground Stations Service

The Wind Ground Stations Service measures wind energy resources to support wind power potential assessment for utility-scale projects. The monitoring stations include cup anemometers, wind vanes, temperature sensors, relative humidity sensors, and barometer sensors.

The table below demonstrates the parameters calculated within this service.

All Wind Parameters	
Air Temperature	Wind Speed at 40m (2)
Wind Direction at 37m	Wind Speed at 60m
Wind Direction at 80m	Wind Speed at 80m
Wind Direction at 98m	Wind Speed at 98m
Wind Speed at 100m	Relative Humidity
Wind Speed at 40m (1)	Barometric Pressure

* Reference: Atlas website

To begin the data request process, click on “Request Service” (Figure 40).

Official government website of the Government of the Kingdom of Saudi Arabia [How to verify](#)

الطاقة المتجددة Atlas Renewable Energy Resources Data Open Data Resources Contact Us En View Cart Welcome

Wind Ground Stations

Home / Wind Ground Stations

Wind ground stations measure wind energy resources intended for estimating wind power potentials for utility scale projects. The network stations encompass cup anemometers, wind vanes, temperature, relative humidity and barometer sensors.

For support or to request access to the service, contact: atlasinfo@energy.gov.sa.

Request Service

Service Information

- Service Duration**
1 business day
- Target Audience**
Citizen, Government, Business
- Service Cost**
Pricing
- Beneficiaries**
Citizen, Resident, Visitor, Companies

About the Service **Terms & Requirements** **How to Apply**

1. Click on the service link
2. Hover over "Data Actions", then select Wind Ground Stations
3. Select your desired station
4. Set the location and click continue
5. Fill in to submit the request

نحن نمنعكم
كيف يمكنني أن أساعدك اليوم؟

Figure 40: Request Service



On this page, the user can explore the pricing details by navigating to Service Cost section, clicking on “Pricing” within that section to review the full breakdown of fees before proceeding (Figure 41).

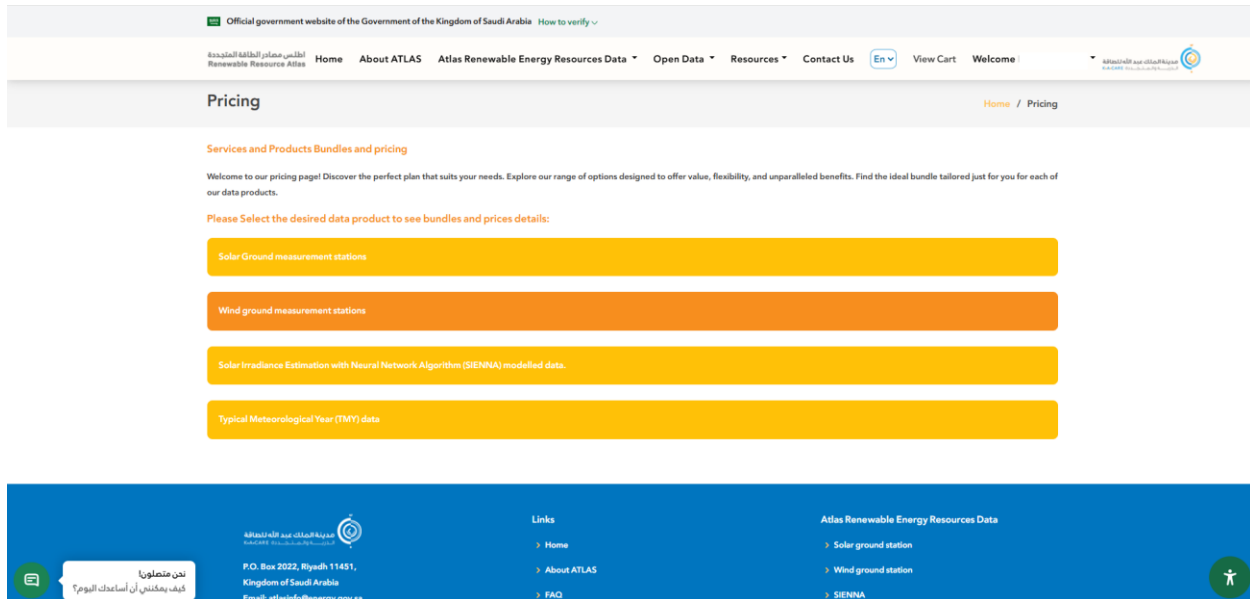


Figure 41: Pricing Detail

The service page will open where the user is able to select the station name and choose the required data parameters (Figure 42).

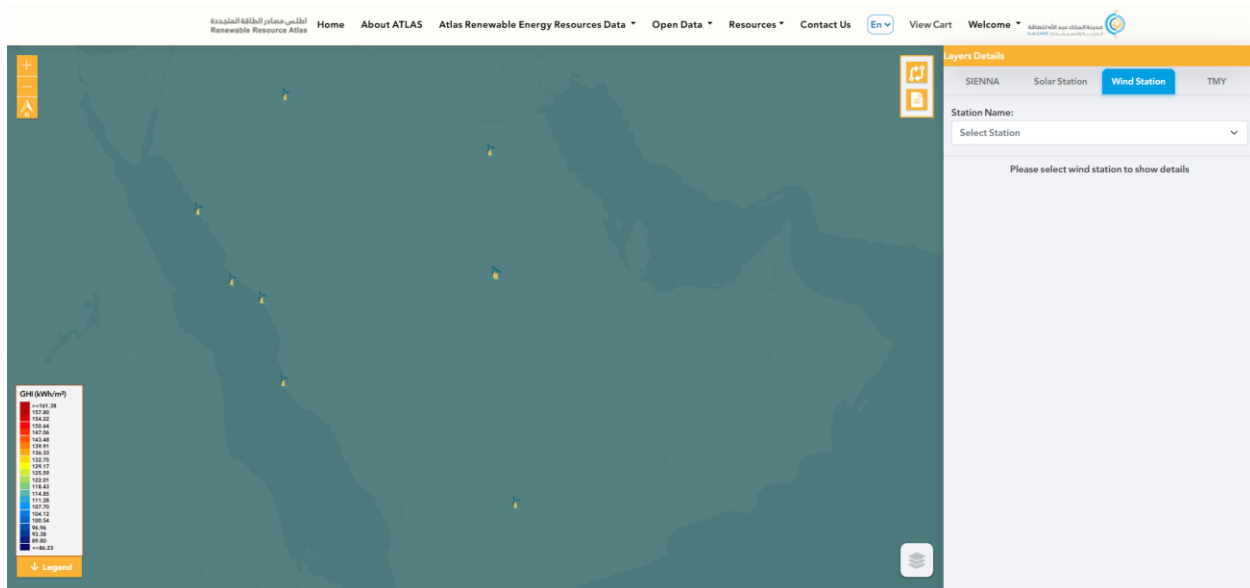


Figure 42: Wind Station Selection



After selecting a station, detailed information about the station will be displayed (Figure 43).

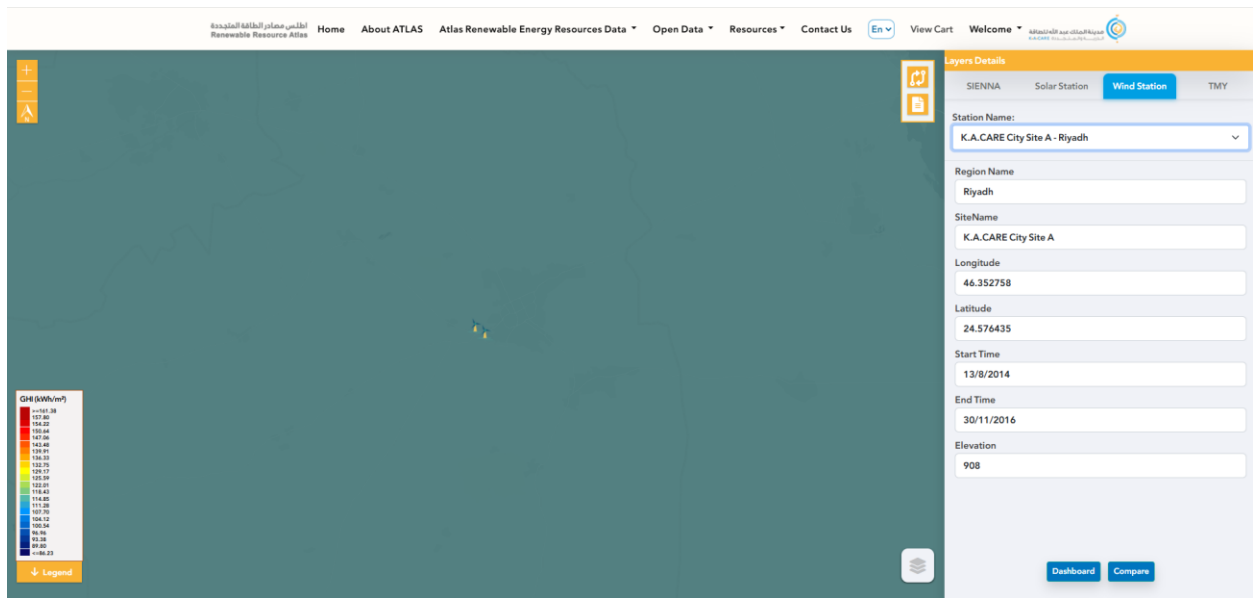


Figure 43: Wind Station Details

Click on “[Dashboard](#)” to (Figure 44):

- Define data resolution
- Select time range
- Customize parameters
- Display charts

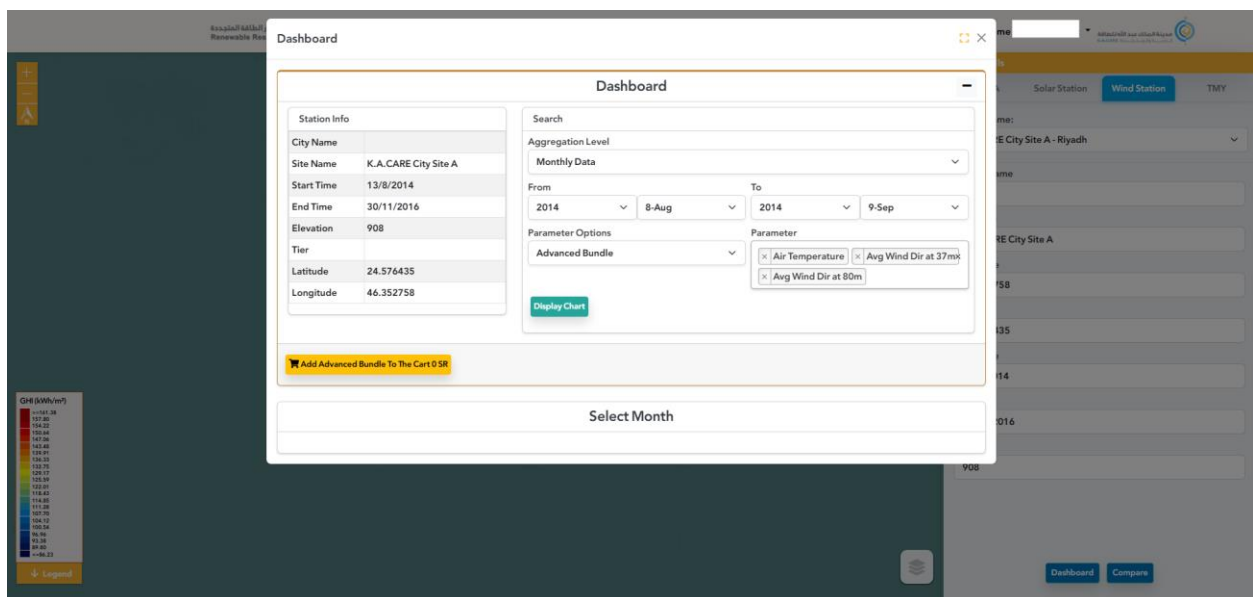


Figure 44: Dashboard Configuration

The user can either view the data through dashboards within the platform or proceed with downloading the dataset (Figure 45).

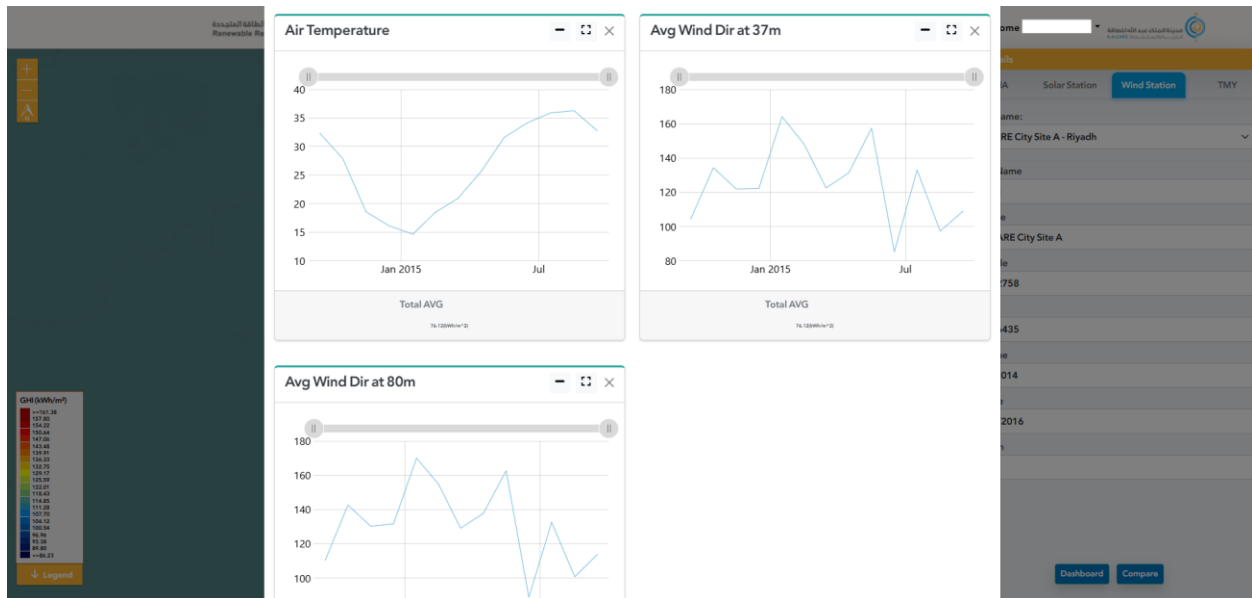


Figure 45: Display Charts

Once the data configuration is complete, submit the request by “**Add Custom Bundle to Cart**” and the request will be added to the cart (Figure 46).

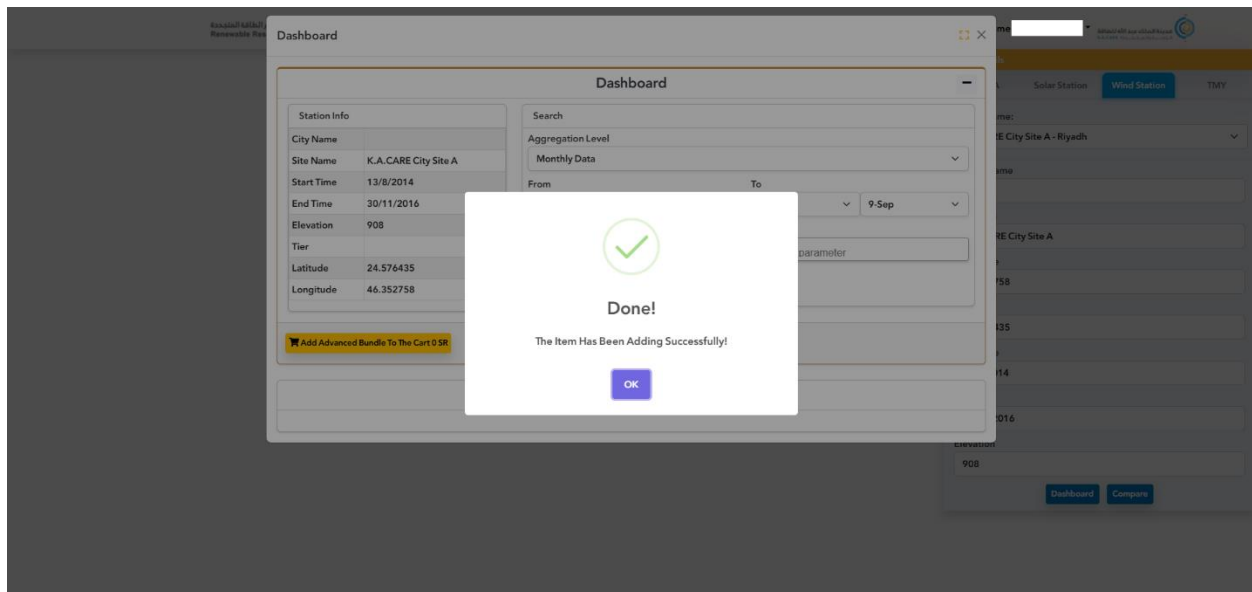


Figure 46: Add Item to Cart

Proceed to “View Cart” in the top-right corner of the browser to complete the payment process through the “Checkout” button (Figure 47).

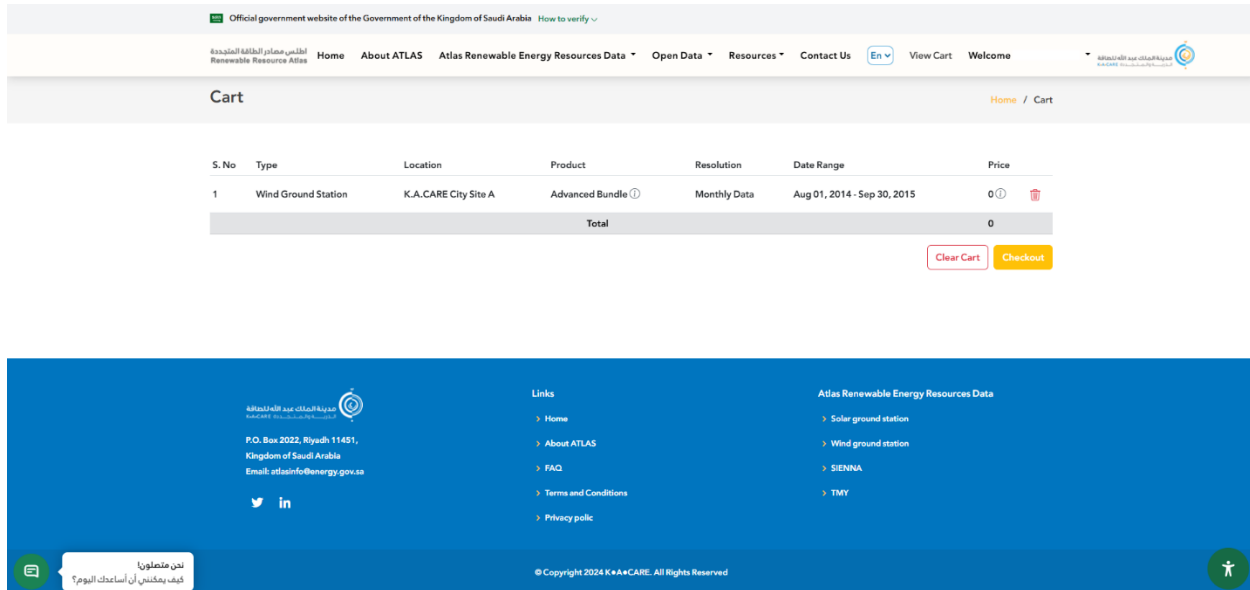


Figure 47: View Cart

On the orders page, the user can view list of items requested. Click on ⓘ icon next to the product name to view the specific attribute order details (Figure 48).

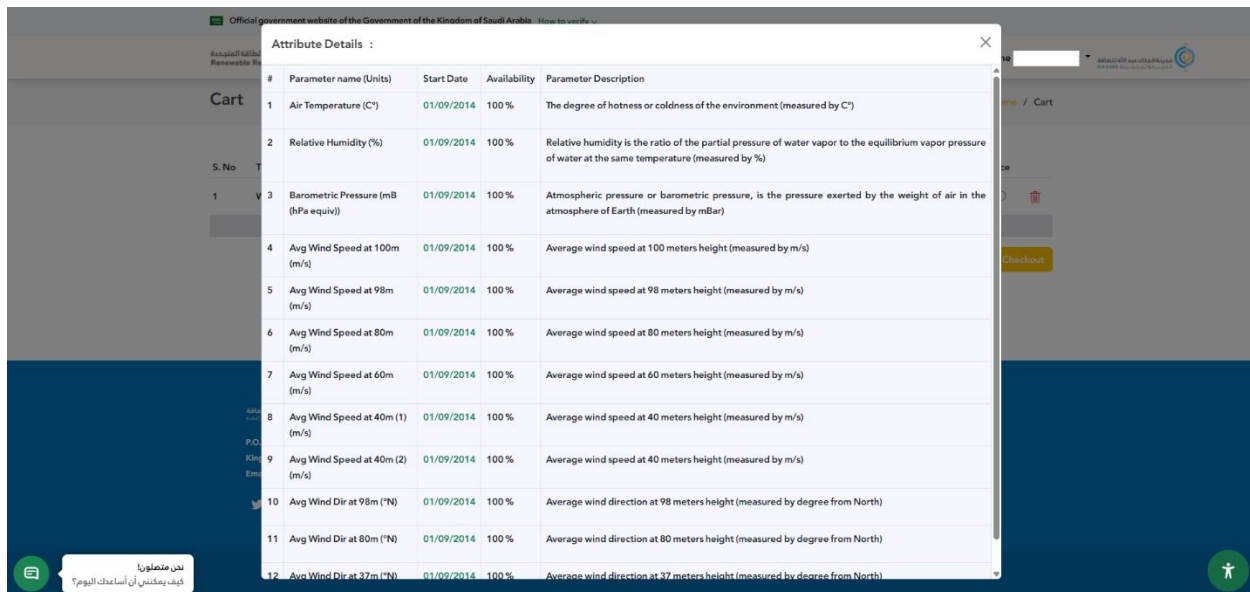


Figure 48: View Order Details



Click on ⓘ icon next to the price to view a breakdown of cost details (Figure 49).

The screenshot shows the 'Price Details' popup for a 'Wind Ground Station' at 'K.A.CARE City Site A' with an 'Advanced Bundle' and 'Monthly Data' resolution. The popup contains a table with the following data:

Pricing Per Month	User Type Discount %	User Type Discount Price	Time Period Discount %	Time Period Discount Price	No. Of Stations Discount %	No. Of Stations Discount Price	Total Discount Price	Total Price Per Month	Selected Duration Month(s)	Final Price (Selected Duration)
0	100	0	N/A	N/A	N/A	N/A	0	0	14	0

The background shows a cart with one item: 'Wind Ground Station' at 'K.A.CARE City Site A' with a price of 0. The website footer includes contact information for K.A.CARE and a list of links.

Figure 49: View Price Details

To proceed with confirming the order, click on “Checkout”. A popup message will appear to verify the user request (Figure 50).

The screenshot shows the 'Checkout' popup with a question mark icon and the text 'Checkout' and 'Are you sure you want to confirm checkout?'. There are 'Cancel' and 'OK' buttons. The background shows the same cart as Figure 49, with the 'Checkout' button highlighted in yellow.

Figure 50: Checkout Process



Once verified, the user can view the quotation document (Figure 51), then proceed to the next step to place the order by clicking “Next Step”.

The screenshot displays the 'Order Checkout' interface. At the top, a progress bar shows four steps: Quote (active), Agreement, Payment, and Confirm. Below the progress bar, the 'Quotation:' section is visible. It includes a header with 'Quoted Quote - Order 222-10000281142' and a table with columns for 'Item No.', 'Description', 'Quantity', 'Unit Price', 'Total Price', and 'Status'. The table contains one row of data. Below the table, there is a large black rectangular area, likely a placeholder for an image or a redacted section. At the bottom right, there is a 'Next Step' button. On the left side, there is a small green circular icon with a white 'i' and a text box containing Arabic text.

Figure 51: Order Quotation

The user shall review the agreement and check the box to agree and process the order (Figure 52).

The screenshot displays the 'Order Checkout' interface, specifically the 'Agreement' step. The progress bar shows 'Quote' and 'Agreement' as active steps, with 'Payment' and 'Confirm' following. The 'Data Sharing Agreement:' section is visible, containing a document titled 'اتفاقية مشاركة البيانات' (Data Sharing agreement). Below the document, there is a checkbox labeled 'I agree to the Data Sharing Agreement'. At the bottom right, there are 'Previous' and 'Next Step' buttons. On the left side, there is a small green circular icon with a white 'i' and a text box containing Arabic text.

Figure 52: Data Sharing Agreement

The user shall follow the on-screen payment instructions (Figure 53).

The screenshot displays the 'Order Checkout' page with a progress bar indicating four steps: Quote, Agreement, Payment, and Confirm. The 'Payment' step is currently active. Below the progress bar, the 'Payment Information' section contains a thank-you message and instructions regarding the SADAD invoice and email notifications. At the bottom of the form, there are 'Previous' and 'Next Step' buttons. A chatbot icon is visible in the bottom left corner.

Figure 53: Payment Process

Review the final order details and click on “Submit” (Figure 54).

The screenshot displays the 'Order Checkout' page with the 'Confirm' step active. The 'Confirm' section includes input fields for 'Full Name', 'Email Address', and 'Phone Number'. Below these fields, there is a section titled 'By pressing "Submit", I agree to:' followed by three numbered terms of agreement. At the bottom, there are 'Previous' and 'Submit' buttons. A chatbot icon is visible in the bottom left corner.

Figure 54: Order Confirmation

Once the order request is approved, locate the automated email sent to the user email inbox. This email confirms that the order is ready to be downloaded (Figure 55).

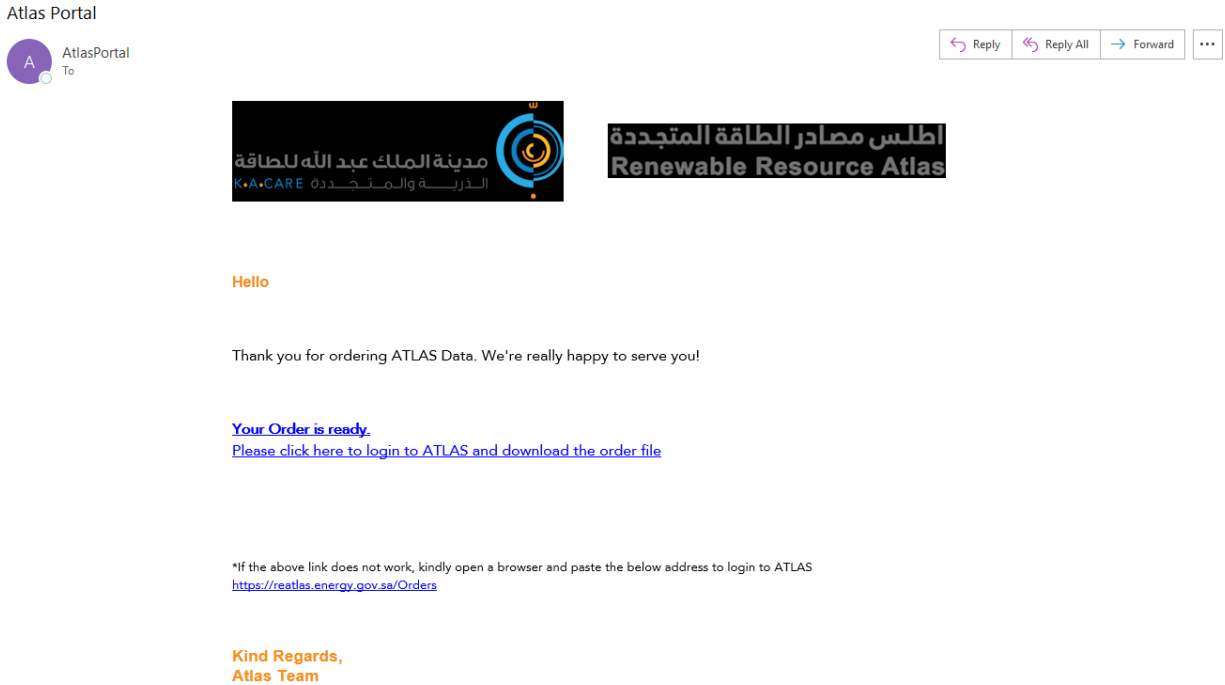


Figure 55: Approved Request Email

Click the access link provided within the email body, which will open the platform in the web browser. Locate the specific request in the order list. On the right-hand side of the order, click “Actions” button. Select the “Download” option from the menu to save the request files on your device (Figure 56).

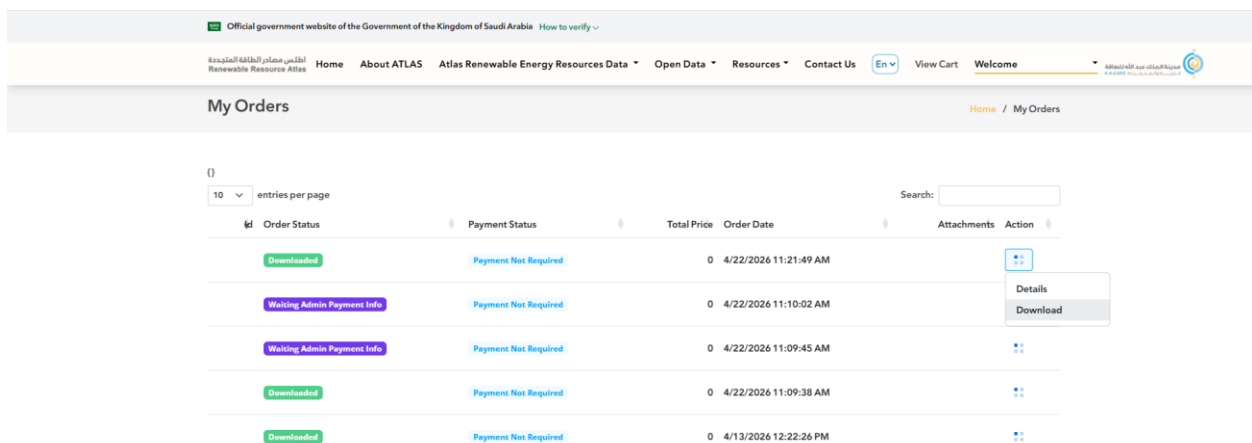


Figure 56: Download Menu



Alternatively, navigate to the top-right corner of the browser window and click on the Profile tab, then “My Orders” tab (Figure 57).

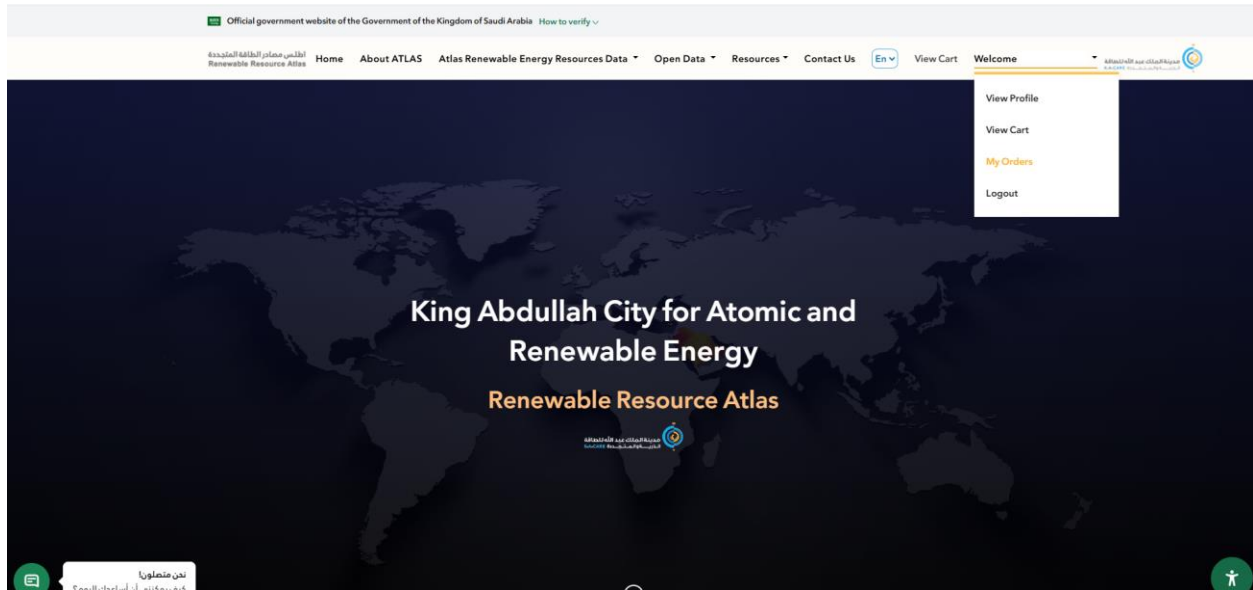


Figure 57: My Orders Tab

Locate the specific request in the order list. On the right-hand side of the order, click “Actions” button. Select the “Download” option from the menu to save the request files on your device (Figure 58).

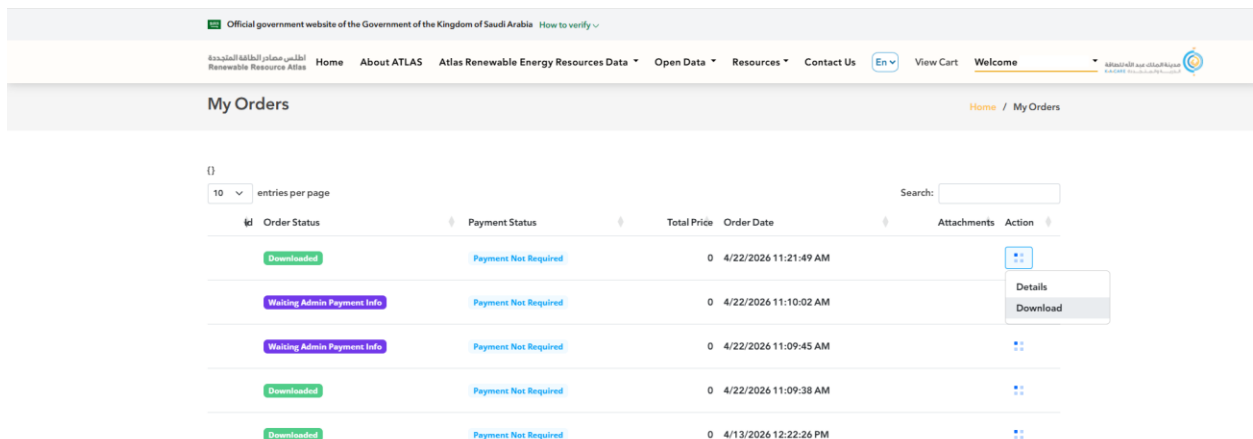


Figure 58: Download Menu

Once the request is approved, the dataset becomes available for download in CSV format (Figure 59).

Wind Resource Report for King Abdullah City for Atomic and Renewable Energy													
Station name: K.A.CARE City Site A													
Province: Riyadh													
City: Riyadh													
Elevation: 908													
Type of bundle: Advanced Bundle													
Resolution: Monthly Data													
Selected Range: August 2014 to September 2015													
Prepared by: National Renewable Energy Data Center in King Abdullah City for Atomic and Renewable Energy (KACARE)													
DateTime	WindSpec	WindSpec	WindSpec	WindSpec	WindSpec	WindSpec	WindSpec	Tempratu	RHAv	BaromAv	WindDire	WindDire	WindDirectionAvgAt37m
Jan-14	6.0585	6.0315	5.817	5.5363	5.1814	5.2048	32.3454	14.6842	908.4585	112.0234	110.3412	104.3604	
Jan-14	6.1162	6.0791	5.8395	5.5193	5.1572	5.1808	27.8542	23.0656	912.768	143.6866	142.7118	134.3675	
Jan-14	6.268	6.2438	6.0386	5.7623	5.4168	5.4527	18.5579	42.2298	913.9583	132.29	130.2343	121.932	
Jan-14	5.4191	5.3992	5.2309	4.9635	4.611	4.6405	16.1182	40.6399	915.8672	133.968	131.641	122.3078	
Jan-15	5.3532	5.3136	5.1309	4.8938	4.6085	4.6269	14.6726	29.202	914.6798	172.9123	169.9951	164.114	
Jan-15	6.4066	6.3628	6.1624	5.8883	5.5459	5.5655	18.4903	26.6405	911.6204	157.2733	154.7777	148.0809	
Jan-15	7.035	7.001	6.766	6.4662	6.106	6.1412	20.9043	33.5298	911.9436	130.8006	129.1319	122.5677	
Jan-15	7.7325	7.6993	7.4898	7.2251	6.8706	6.9171	25.5904	16.0543	911.5144	139.3841	137.734	131.3928	
Jan-15	6.4488	6.4132	6.211	5.9627	5.6525	5.669	31.591	16.2532	909.5507	164.2071	162.6922	157.4629	
Jan-15	7.7887	7.7661	7.4999	7.2327	6.8482	6.8938	34.1547	9.4987	906.7656	89.1955	88.8114	85.1971	
Jan-15	7.2311	7.1275	6.748	6.5289	6.2842	6.2341	35.8974	9.2809	904.734	129.87	132.5605	132.9464	
Jan-15	6.7256	6.7035	6.4716	6.2117	5.8717	5.9013	36.2711	10.8357	906.4168	100.0487	100.7716	97.2988	
Jan-15	5.5858	5.5626	5.3638	5.11	4.7915	4.809	32.7779	14.4246	909.7883	114.5804	113.9268	109.0066	

Figure 59: Downloaded Dataset

In the Atlas platform, there is a feature that allows users to compare two stations and analyze their behavior. To begin using this service, click on “Request Service” (Figure 60).

The screenshot shows the 'Request Service' page for Wind Ground Stations. The page header includes the official government website of the Kingdom of Saudi Arabia and navigation links. The main content area is titled 'Wind Ground Stations' and includes a description of the service and a 'Request Service' button. A sidebar on the right provides 'Service Information' including Service Duration (1 business day), Target Audience (Citizen, Government, Business), Service Cost (Pricing), and Beneficiaries (Citizen, Resident, Visitor, Companies). A bottom section contains a list of steps to follow for requesting the service.

Official government website of the Government of the Kingdom of Saudi Arabia

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Wind Ground Stations

Wind ground stations measure wind energy resources intended for estimating wind power potentials for utility scale projects. The network stations encompass cup anemometers, wind vanes, temperature, relative humidity and barometer sensors.

For support or to request access to the service, contact: atlasinfo@energy.gov.sa.

Request Service

Service Information

- Service Duration: 1 business day
- Target Audience: Citizen, Government, Business
- Service Cost: Pricing
- Beneficiaries: Citizen, Resident, Visitor, Companies

How to Apply

- Click on the service link
- Hover over "Data Actions", then select Wind Ground Stations
- Select your desired station
- Set the location and click continue
- Click on the submit button

Figure 60: Request Service

Select the initial station name, then click on “Compare” to select the second station from the map (Figure 61).

The screenshot shows the 'Compare Process' page. The main area is a map displaying wind energy resources. A sidebar on the right contains 'Layers Details' for the selected station, including Station Name, Region Name, Site Name, Longitude, Latitude, Start Time, End Time, and Elevation. A 'Compare' button is visible at the bottom right of the sidebar.

Home About ATLAS Atlas Renewable Energy Resources Data Open Data Resources Contact Us En View Cart Welcome Dana Bubshait

Layers Details

- SIENNA Solar Station Wind Station TMY
- Station Name: K.A.CARE City Site A - Riyadh
- Region Name: Riyadh
- Site Name: K.A.CARE City Site A
- Longitude: 46.352758
- Latitude: 24.576435
- Start Time: 13/8/2014
- End Time: 30/11/2016
- Elevation: 908

Compare

Figure 61: Compare Process



Afterwards both stations datasets are available for comparison, click on “Start Compare” (Figure 62).

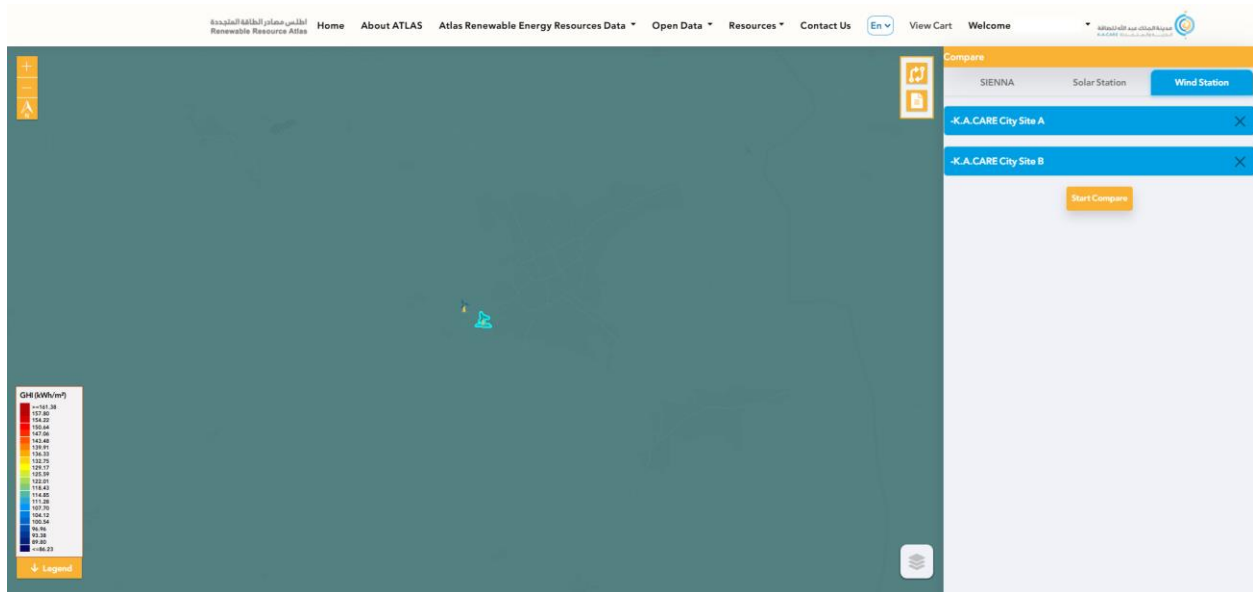


Figure 62: Start Compare Process

Then the “Dashboard” configuration open, where the user can (Figure 63):

- Define aggregation level
- Select time range
- Customize parameters
- Display charts

The data can only be viewed through the comparison feature and not downloaded.

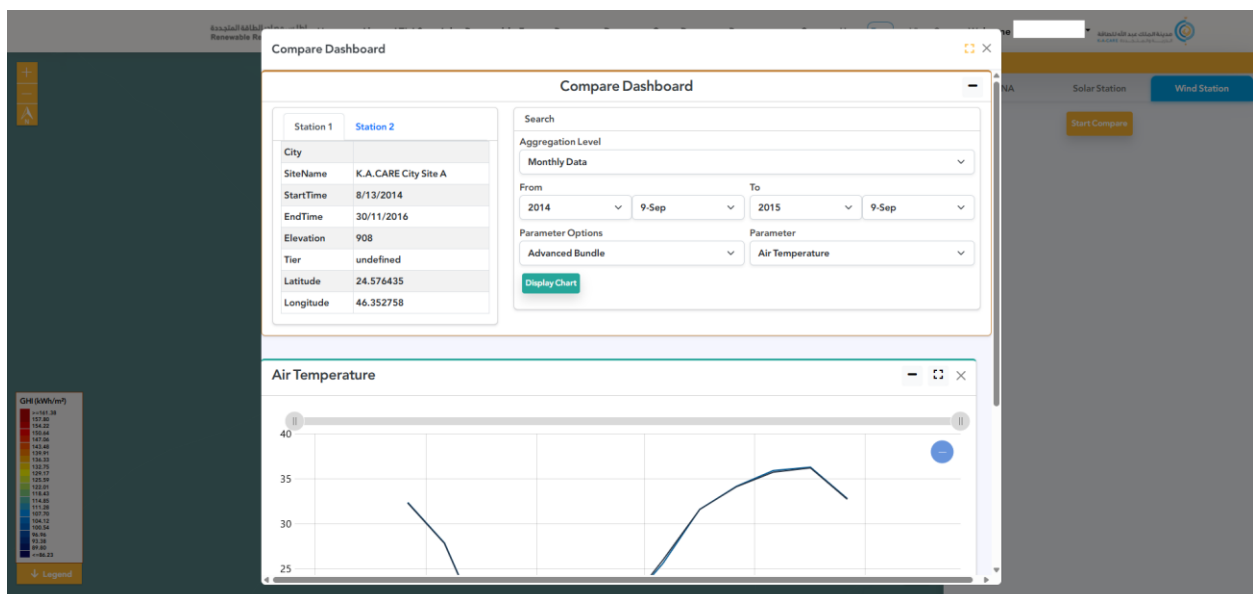


Figure 63: Dashboard Configuration



iii. SIENNA

Solar Irradiance Estimation with Neural Network Algorithm (SIENNA) is a satellite-based solar resource model developed by King Abdullah City for Atomic and Renewable Energy. It provides comprehensive solar data for stakeholders across Saudi Arabia. The model utilizes artificial neural networks, processes satellite imagery from the SEVIRI instrument, and uses data from the MeteoSat Second Generation (MSG) satellite. Key Features of SIENNA include high spatial and temporal solar data coverage, calibration using high-accuracy ground measurements, and suitable for solar project planning and analysis.

To begin the data request process, click on “Request Service” (Figure 64).

The screenshot shows the 'SIENNA Data' page on the official government website of the Kingdom of Saudi Arabia. The page features a navigation bar with links to Home, About ATLAS, Atlas Renewable Energy Resources Data, Open Data, Resources, Contact Us, View Cart, and Welcome. The main content area is titled 'SIENNA Data' and includes a description of the service, a 'Request Service' button, and a sidebar with service information.

SIENNA Data

Description: Solar Irradiance Estimation with Neural Network Algorithm (SIENNA) is a satellite-based solar resource model calibrated by high accuracy ground data that have been developed by K.A.CARE, offering comprehensive data for solar stakeholders throughout the Kingdom of Saudi Arabia. Source: SIENNA makes use of artificial neural networks to model the solar irradiance using imagery from the Spinning Enhanced Visible and Infrared Imager (SEVIRI) instrument on-board the European Union's MeteoSat Second Generation (MSG) satellite.

For support or to request the service: atlasinfo@energy.gov.sa

Request Service

Service Information

- Service Duration
- Service Level Agreement
- Target Audience: Government entities, Developers, Companies
- Service Cost
- Pricing
- Beneficiaries: Government, Private Sector

Links

- Home
- About ATLAS

Atlas Renewable Energy Resources Data

- Solar ground station
- Wind ground station

Figure 64: Request Service



On this page, the user can explore the pricing details by navigating to Service Cost section, clicking on “Pricing” within that section to review the full breakdown of fees before proceeding (Figure 65).

The screenshot displays the 'Pricing' page of the Atlas Renewable Energy Resources Data website. The page header includes the official government website of the Kingdom of Saudi Arabia and navigation links such as Home, About ATLAS, Atlas Renewable Energy Resources Data, Open Data, Resources, Contact Us, View Cart, and Welcome. The main content area is titled 'Pricing' and includes a sub-header 'Services and Products Bundles and pricing'. A welcome message states: 'Welcome to our pricing page! Discover the perfect plan that suits your needs. Explore our range of options designed to offer value, flexibility, and unparalleled benefits. Find the ideal bundle tailored just for you for each of our data products.' Below this, a prompt asks the user to 'Please Select the desired data product to see bundles and prices details:'. Four yellow buttons are listed: 'Solar Ground measurement stations', 'Wind ground measurement stations', 'Solar Irradiance Estimation with Neural Network Algorithm (SIENNA) modelled data', and 'Typical Meteorological Year (TMY) data'. The footer contains contact information for the Ministry of Energy, P.O. Box 2022, Riyadh 11451, Kingdom of Saudi Arabia, and email: atlasinfo@energy.gov.sa. It also includes links to Home, About ATLAS, and FAQ, and a section for Atlas Renewable Energy Resources Data with links to Solar ground station, Wind ground station, and SIENNA.

Figure 65: Pricing Details



Select the location coordinates and the parameter required to process the request (Figure 66).

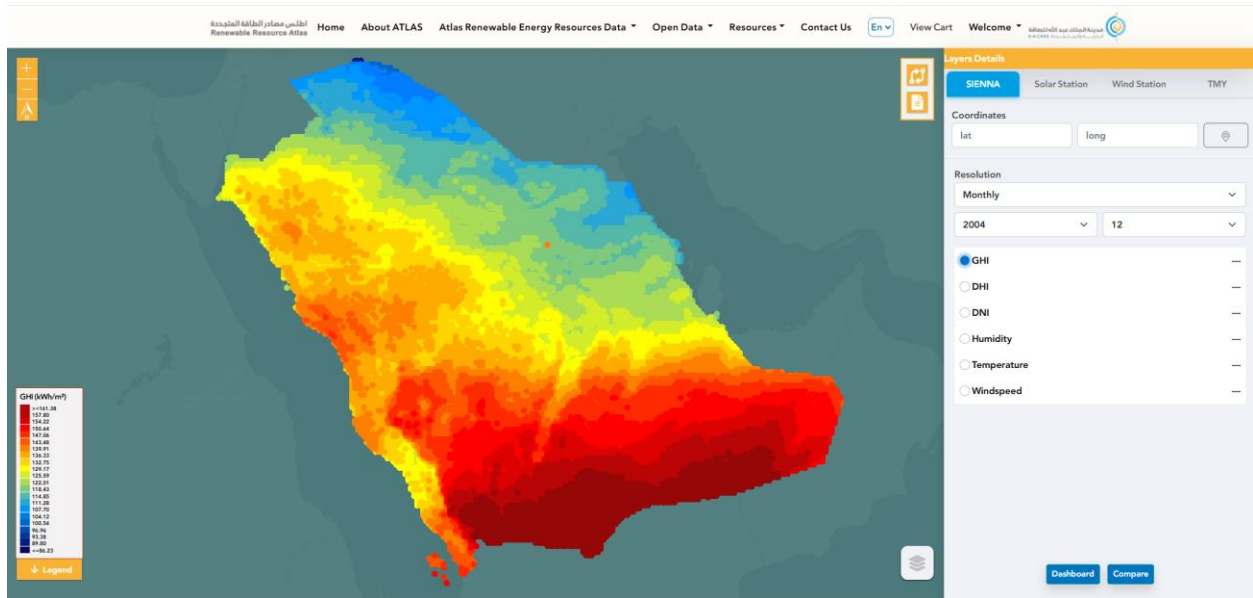


Figure 66: SIENNA Required Information

Click on “Dashboard” to (Figure 67):

- Define aggregation level
- Select time range
- Customize parameters
- Display charts

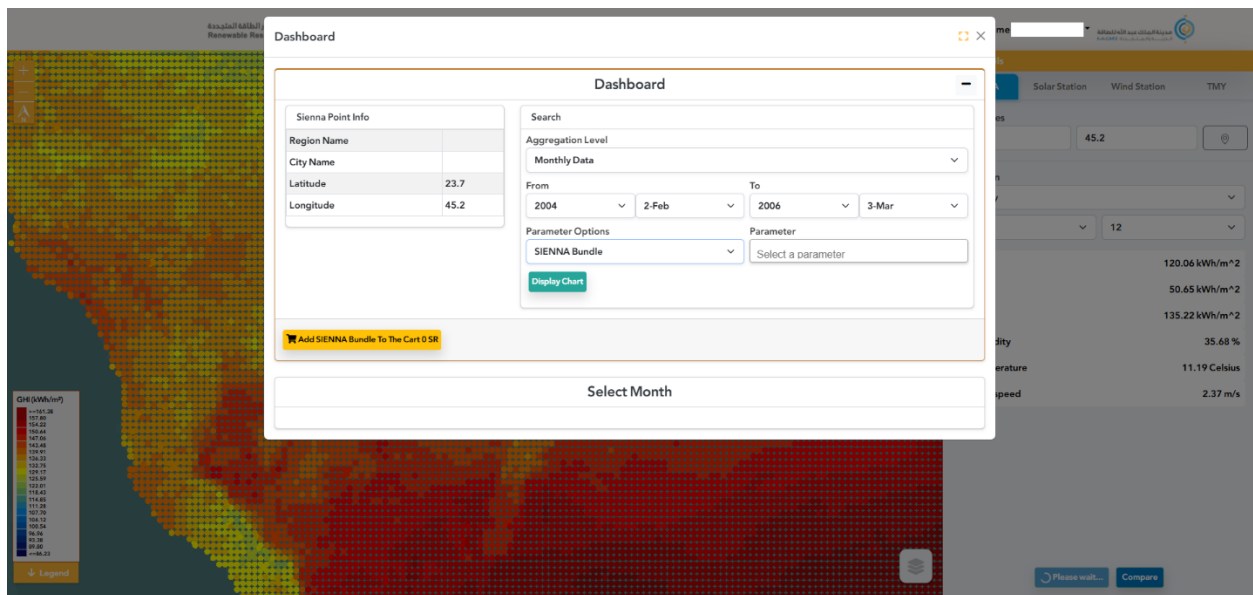


Figure 67: Dashboard Configuration



The user can either view the data through dashboards within the platform or proceed with downloading the dataset (Figure 68).

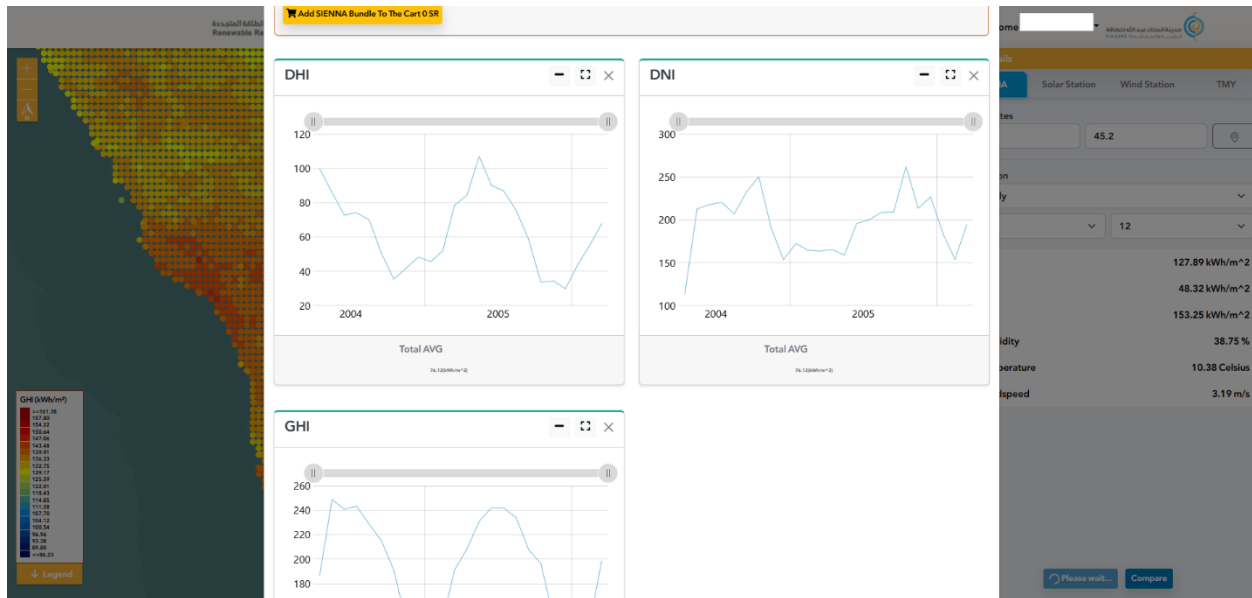


Figure 68: Display Charts

Once the data configuration is complete, submit the request by “Add Custom Bundle to Cart” and the request will be added to the cart (Figure 69).

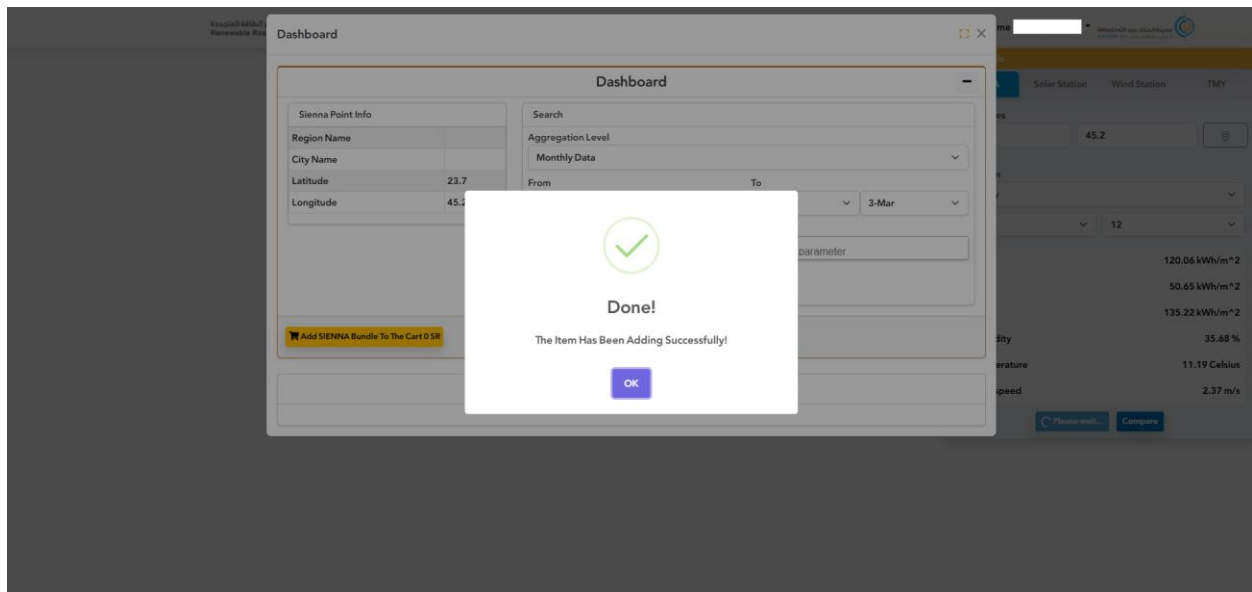


Figure 69: Add Item to Cart



Proceed to “View Cart” in the top-right corner of the browser to complete the payment process through the “Checkout” button (Figure 70).

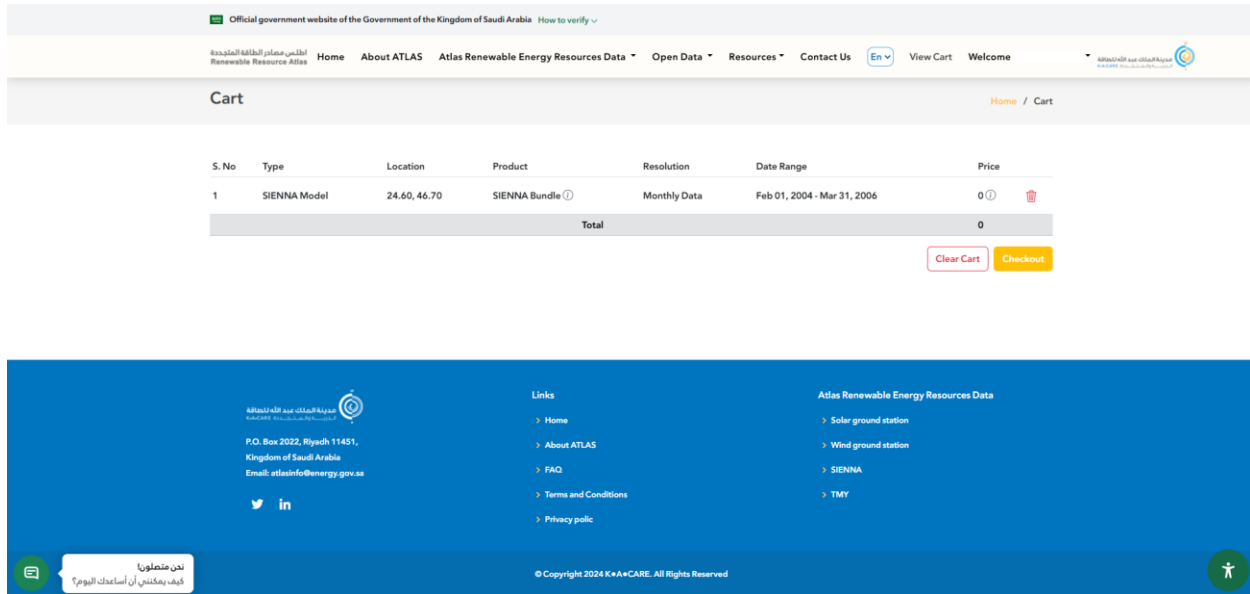


Figure 70: View Cart

On the orders page, the user can view list of items requested. Click on ⓘ icon next to the product name to view the specific attribute order details (Figure 71).

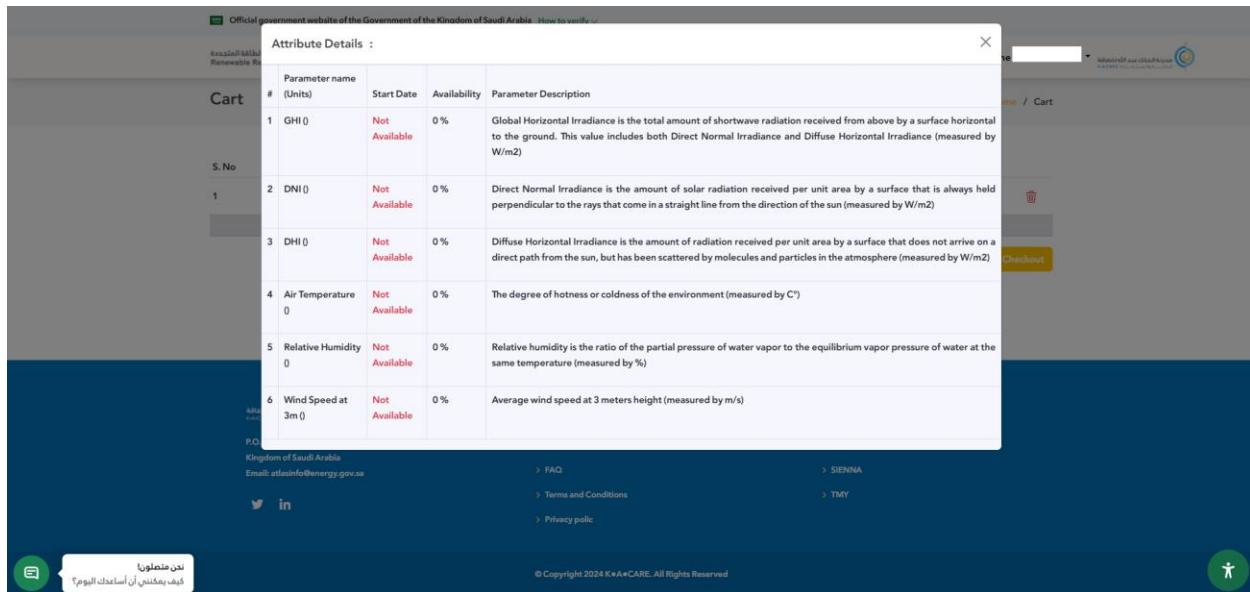


Figure 71: View Order Details



Click on ⓘ icon next to the price to view a breakdown of cost details (Figure 72).

Pricing Per Month	User Type Discount %	User Type Discount Price	Time Period Discount %	Time Period Discount Price	No. Of Stations Discount %	No. Of Stations Discount Price	Total Discount Price	Total Price Per Month	Selected Duration Month(s)	Final Price (Selected Duration)
0	100	0	N/A	N/A	N/A	N/A	0	0	26	0

Price Details : SIENNA Model | 23.70, 45.20 | SIENNA Bundle | Monthly Data

Cart

S. No	Type	Location	Product	Resolution	Date Range	Price
1	SIENNA Model	23.70, 45.20	SIENNA Bundle ⓘ	Monthly Data	Feb 01, 2004 - Mar 31, 2006	0 ⓘ
Total						0

Clear Cart Checkout

Atlas Renewable Energy Resources Data

- Solar ground station
- Wind ground station
- SIENNA
- TMY

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Figure 72: View Price Details

To proceed with confirming the order, click on “Checkout”. A popup message will appear to verify the user request (Figure 73).

Checkout

Are you sure you want to confirm checkout?

Cancel OK

Cart

S. No	Type	Location	Product	Resolution	Date Range	Price
1	SIENNA Model	23.70, 45.20	SIENNA Bundle ⓘ	Monthly Data	Feb 01, 2004 - Mar 31, 2006	0 ⓘ
Total						0

Clear Cart Checkout

Atlas Renewable Energy Resources Data

- Solar ground station
- Wind ground station
- SIENNA
- TMY

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Figure 73: Checkout Process



Once verified, the user can view the quotation document (Figure 74), then proceed to the next step to place the order by clicking “Next Step”.

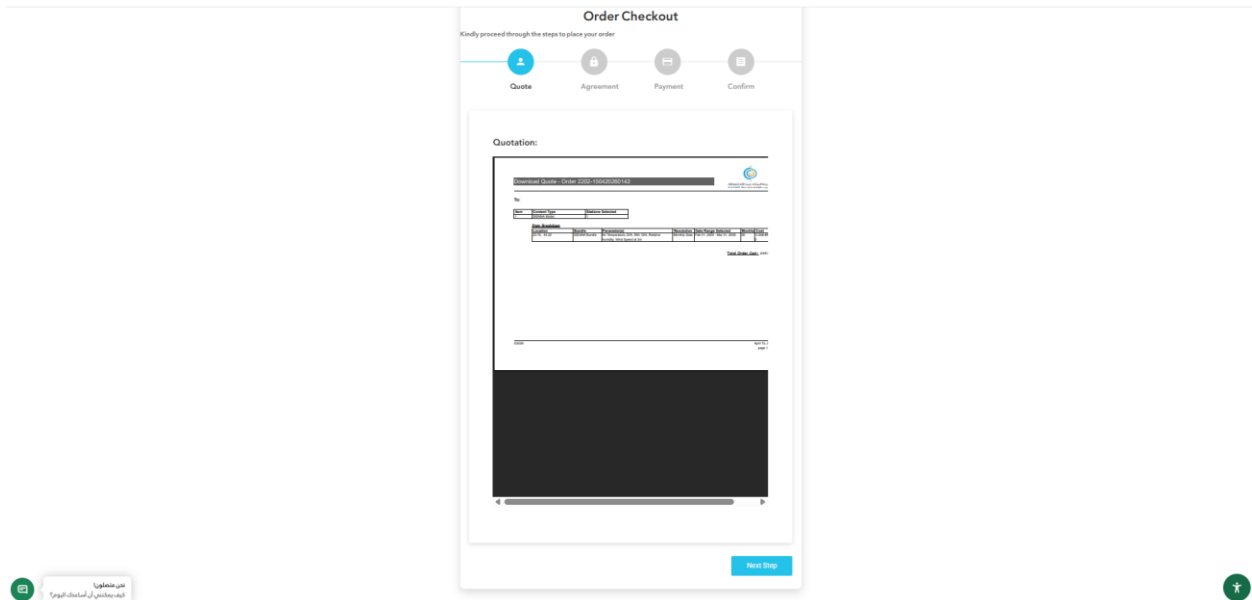


Figure 74: Order Quotation

The user shall review the data sharing agreement and check the box to agree and process the order (Figure 75).

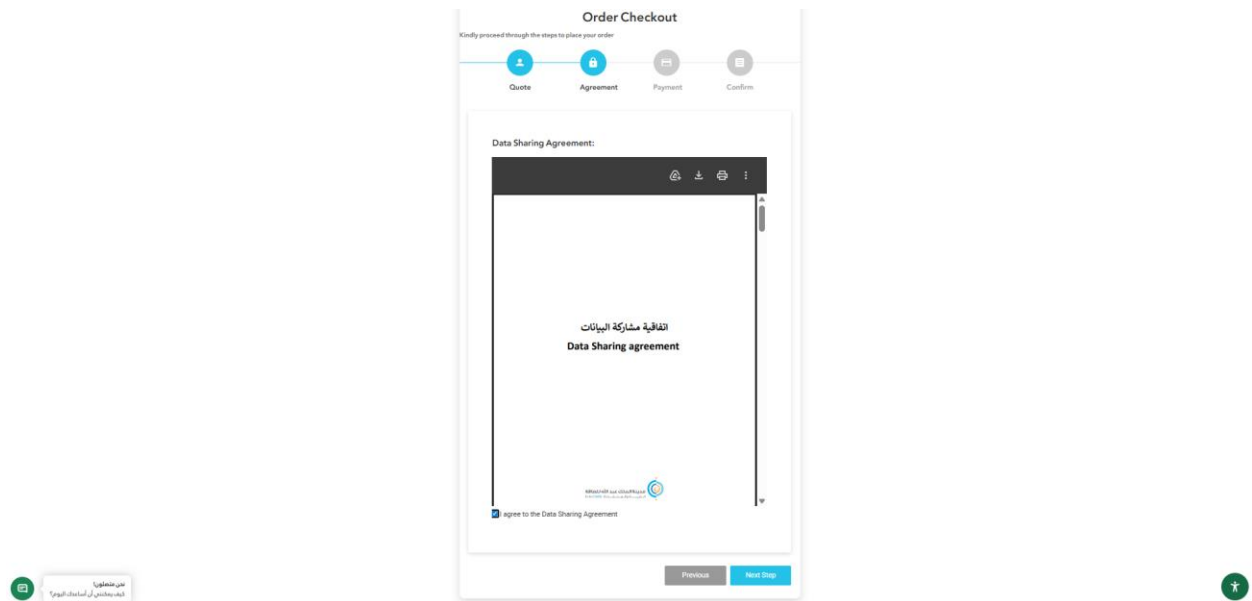


Figure 75: Data Sharing Agreement

The user shall follow the on-screen payment instructions (Figure 76).

The screenshot displays the 'Order Checkout' page. At the top, a navigation bar includes links for Home, About ATLAS, Atlas Renewable Energy Resources Data, Open Data, Resources, Contact Us, and a language dropdown set to 'En'. Below the navigation bar, a progress indicator shows four steps: Quote, Agreement, Payment, and Confirm. The 'Payment' step is currently active. The main content area is titled 'Payment Information:' and contains a thank-you message from the Atlas team, stating that a SADAD invoice will be issued within one business day and that an email with payment details will be sent. At the bottom of the form, there are 'Previous' and 'Next Step' buttons. A chatbot icon is visible in the bottom left corner.

Figure 76: Payment Process

Review the final order details and click on “Submit” (Figure 77).

The screenshot displays the 'Order Checkout' page, specifically the 'Confirm' step. The progress indicator at the top shows four steps: Quote, Agreement, Payment, and Confirm, with 'Confirm' being the active step. The main content area is titled 'Confirm :' and contains three input fields for 'Full Name:', 'Email Address:', and 'Phone Number:'. Below these fields, there is a section titled 'By pressing "Submit", I agree to:' followed by three numbered terms: 1. The final price mentioned in the Quote, 2. All the Terms & Conditions in the Data Sharing Agreement, and 3. Use the specified method of payment. At the bottom of the form, there are 'Previous' and 'Submit' buttons. A chatbot icon is visible in the bottom left corner.

Figure 77: Order Confirmation

Once the order request is approved, locate the automated email sent to the user email inbox. This email confirms that the order is ready to be downloaded (Figure 78).

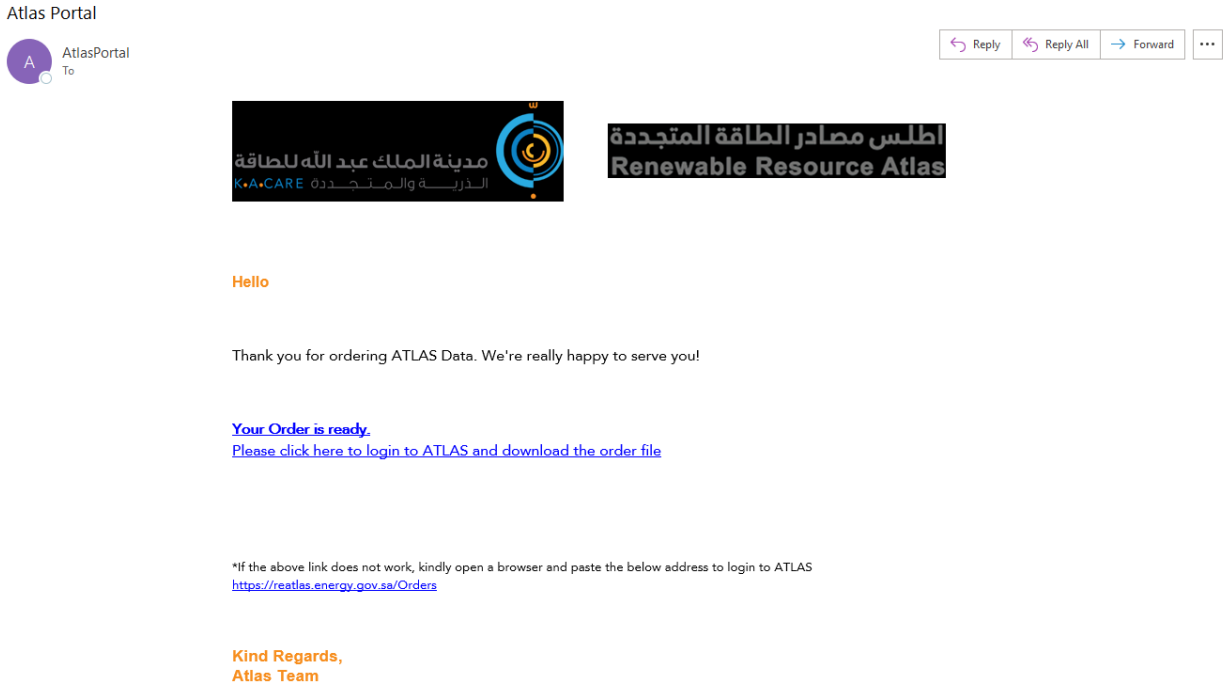


Figure 78: Approved Request Email

Click the access link provided within the email body, which will open the platform in the web browser. Locate the specific request in the order list. On the right-hand side of the order, click “Actions” button. Select the “Download” option from the menu to save the request files on your device (Figure 79).

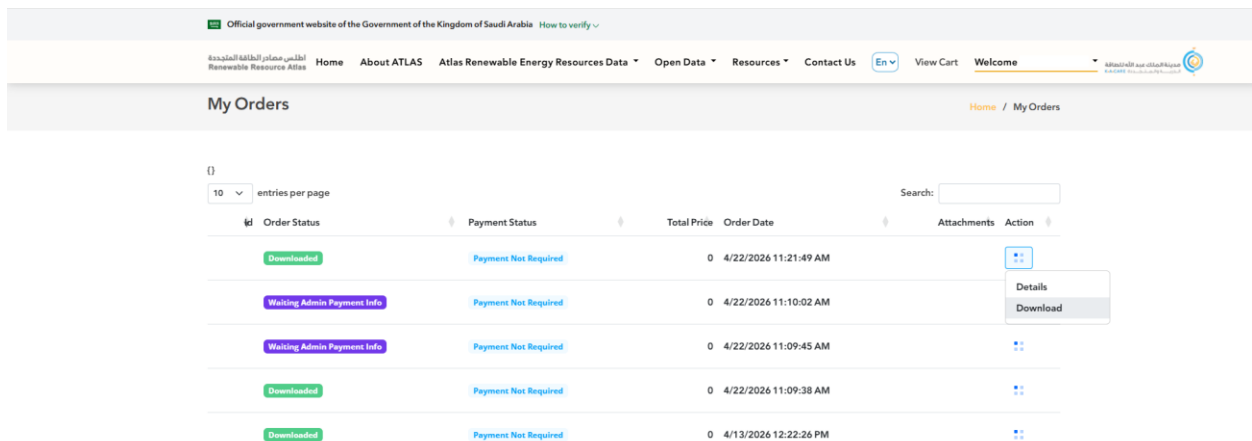


Figure 79: Download Menu



Alternatively, navigate to the top-right corner of the browser window and click on the Profile tab, then “My Orders” tab (Figure 80).

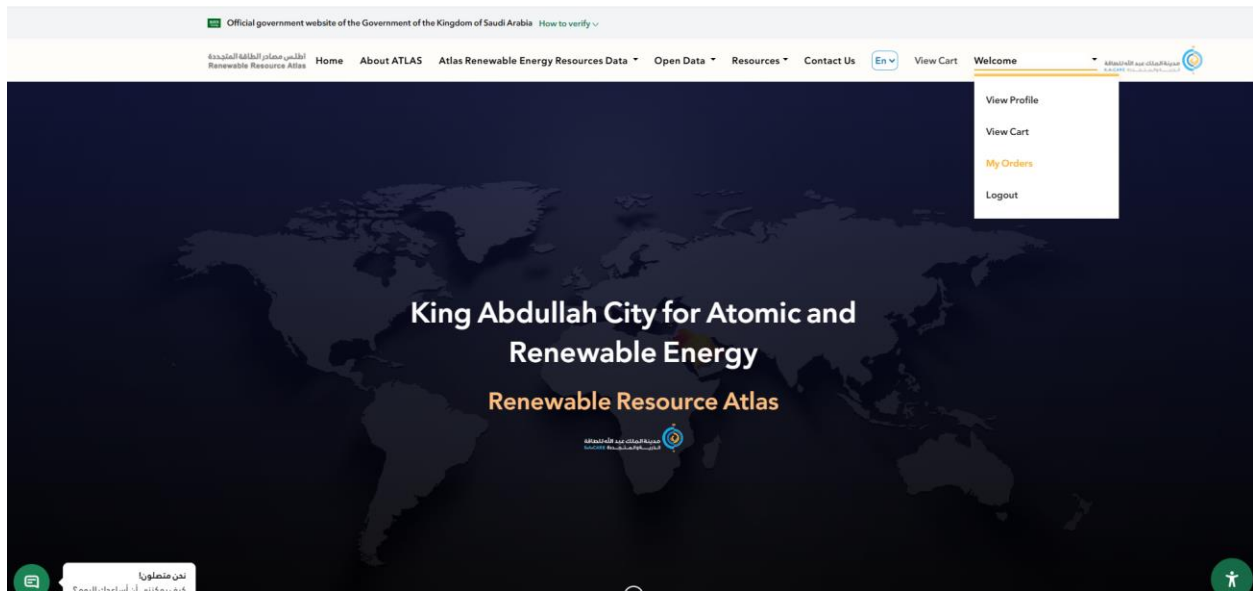


Figure 80: My Orders Tab

Locate the specific request in the order list. On the right-hand side of the order, click “Actions” button. Select the “Download” option from the menu to save the request files on your device (Figure 81).

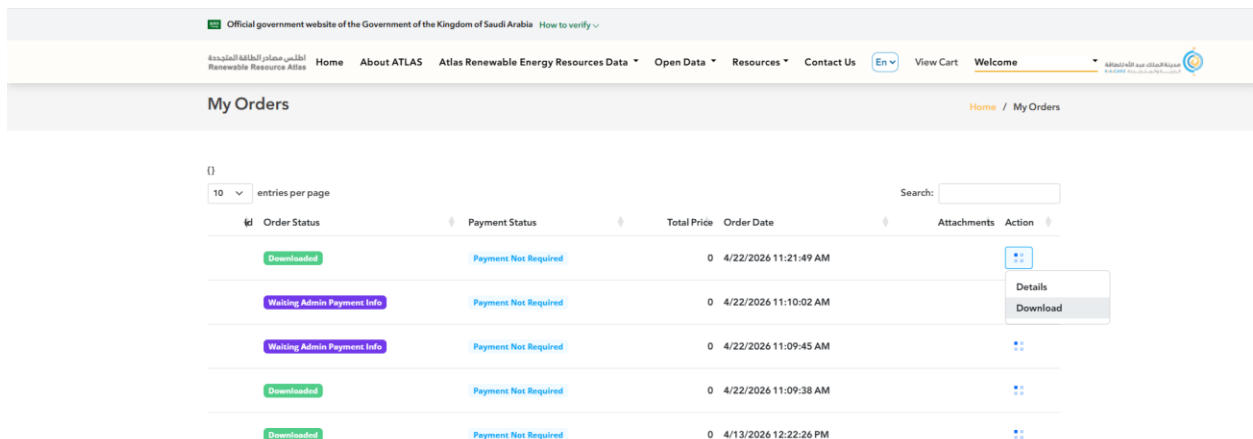


Figure 81: Download Menu



Once the request is approved, the dataset becomes available for download in CSV format (Figure 82).

id	dhi	dni	ghi	rh	temperat	Wind_Speed
Apr-04	99.2239	107.7444	182.1462	26.54507	19.1196	2.89687
May-04	91.8477	186.7711	236.4503	9.98217	24.72689	2.96383
Jun-04	74.3459	209.901	236.4102	7.11116	25.84506	2.63037
Jul-04	68.72	223.716	240.9362	8.03218	27.83717	2.54678
Aug-04	64.0285	221.2039	231.2961	8.77735	27.69658	2.15273
Sep-04	52.4511	216.8847	206.048	8.73761	24.26295	1.90845
Oct-04	39.9724	224.0705	180.8712	12.04803	21.75331	1.51319
Nov-04	48.231	157.3137	136.503	22.24403	16.27795	2.09879
Dec-04	50.6509	135.2232	120.0588	35.67596	11.1931	2.37054
Jan-05	50.9444	142.1698	126.6571	29.15619	11.35645	2.3032
Feb-05	57.0908	132.6108	137.3469	26.45576	12.29963	2.30105
Mar-05	83.369	130.8673	173.0759	28.99086	16.60978	2.73169
Apr-05	86.8682	146.7743	197.9085	18.05148	20.52199	2.75866
May-05	106.3854	140.3886	217.6858	11.1433	24.18425	2.52883
Jun-05	84.466	191.6315	234.0755	7.64236	24.90841	2.45902
Jul-05	86.7909	189.9477	235.0239	8.53563	26.78601	3.00682
Aug-05	70.9481	207.2587	228.2907	8.86953	26.3151	2.40032
Sep-05	56.2743	206.2364	203.1416	9.72865	23.12708	1.97597
Oct-05	41.5121	226.4607	183.9305	13.70459	20.26632	1.59071
Nov-05	44.3686	172.2531	140.0766	26.09847	15.73552	1.82053
Dec-05	40.7748	181.2246	132.5807	21.4835	13.5213	1.67741
Jan-06	53.5457	138.9867	127.4983	28.87817	11.16106	2.01961
Feb-06	59.0381	124.0983	134.8537	27.62583	12.09358	2.33705
Mar-06	76.0152	160.0126	184.9079	22.19175	16.31129	2.38438

Figure 82: Downloaded Dataset

In the Atlas platform, there is a feature that allows users to compare two stations and analyze their behavior. To begin using this service, click on “Request Service” (Figure 83).

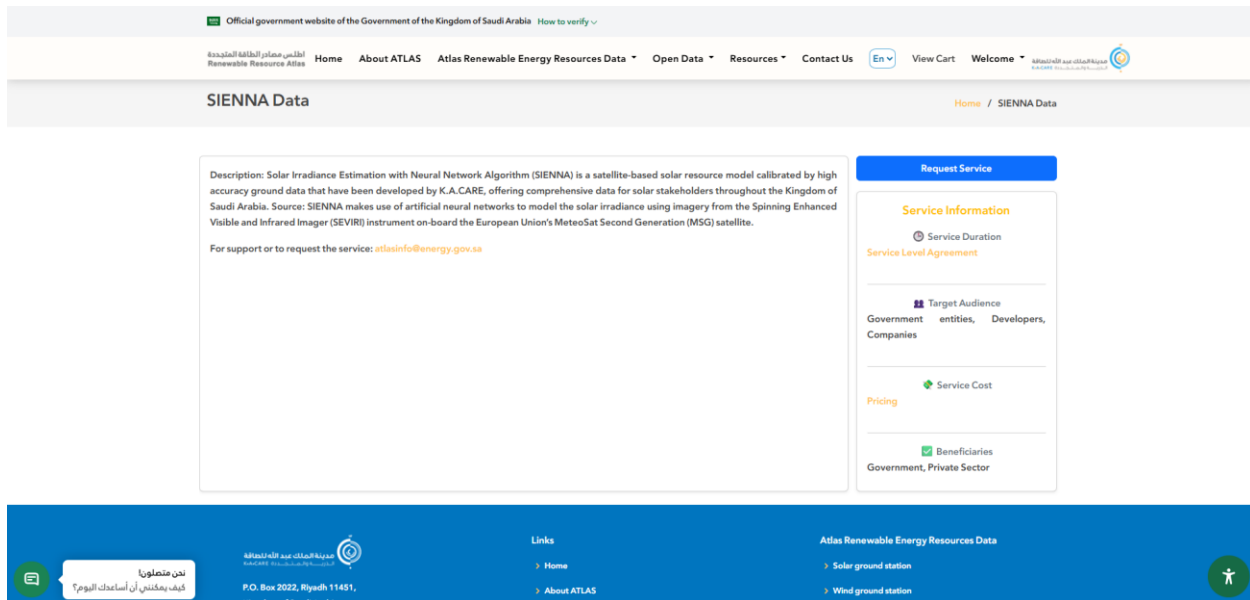


Figure 83: Request Service

Select the initial station name, then click on “Compare” to select the second station from the map (Figure 84).

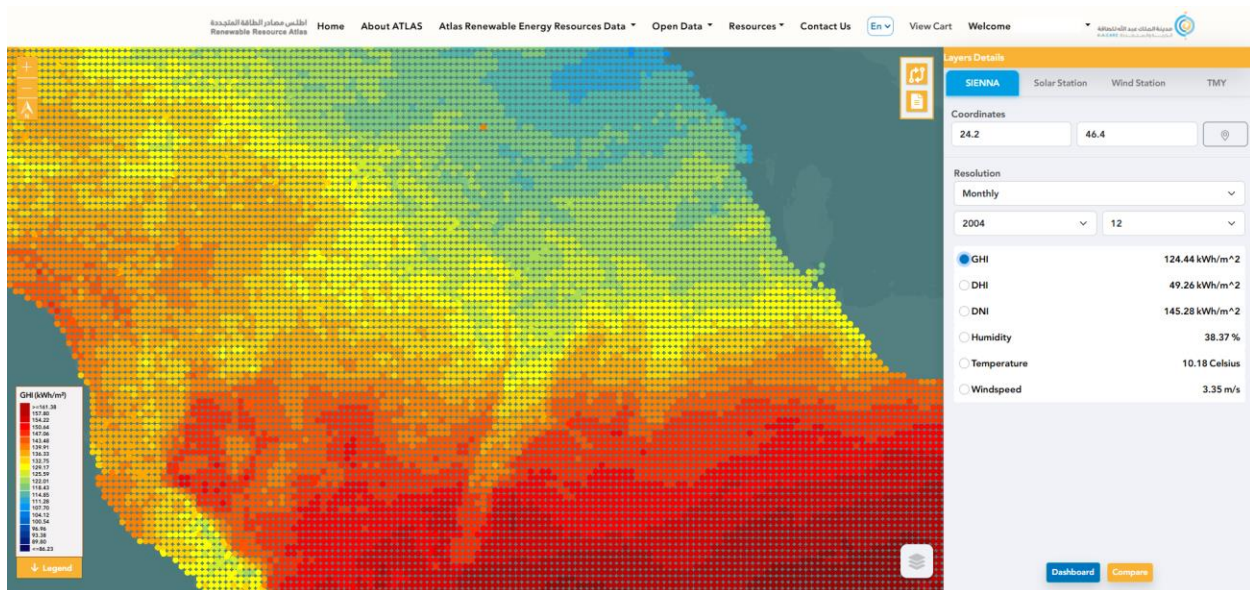


Figure 84: Compare Process



Afterwards both stations datasets are available for comparison, click on “Start Compare” (Figure 85).

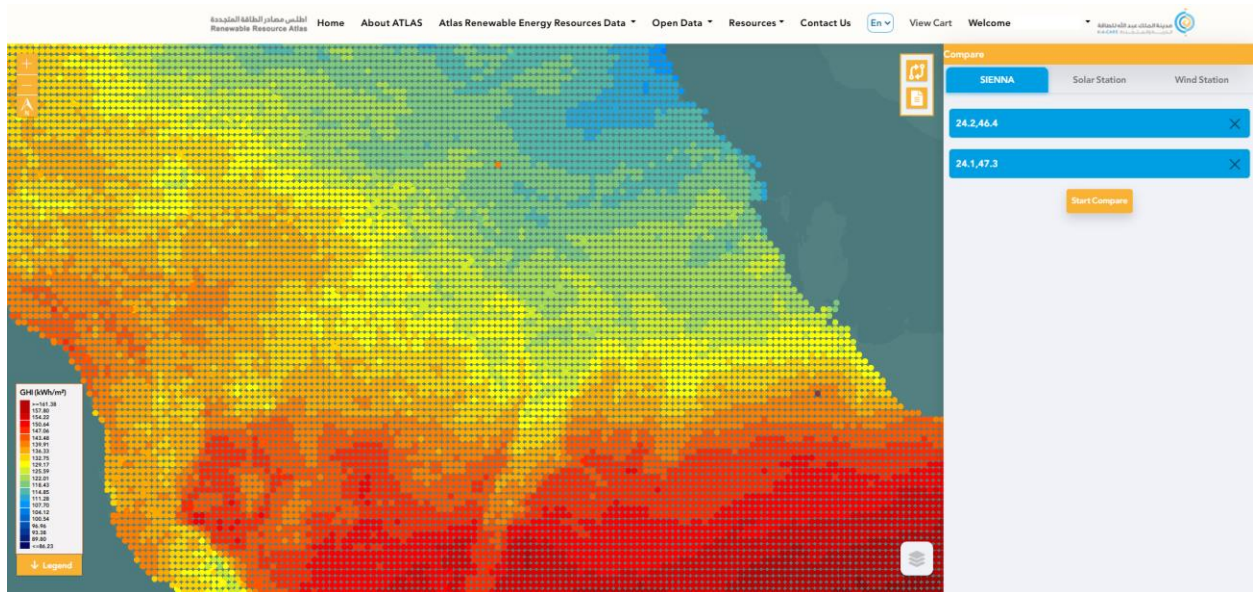


Figure 85: Start Compare Process

Then the “Dashboard” configuration open, where the user can (Figure 86):

- Define aggregation level
- Select time range
- Customize parameters
- Display charts

The data can only be viewed through the comparison feature and not downloaded.

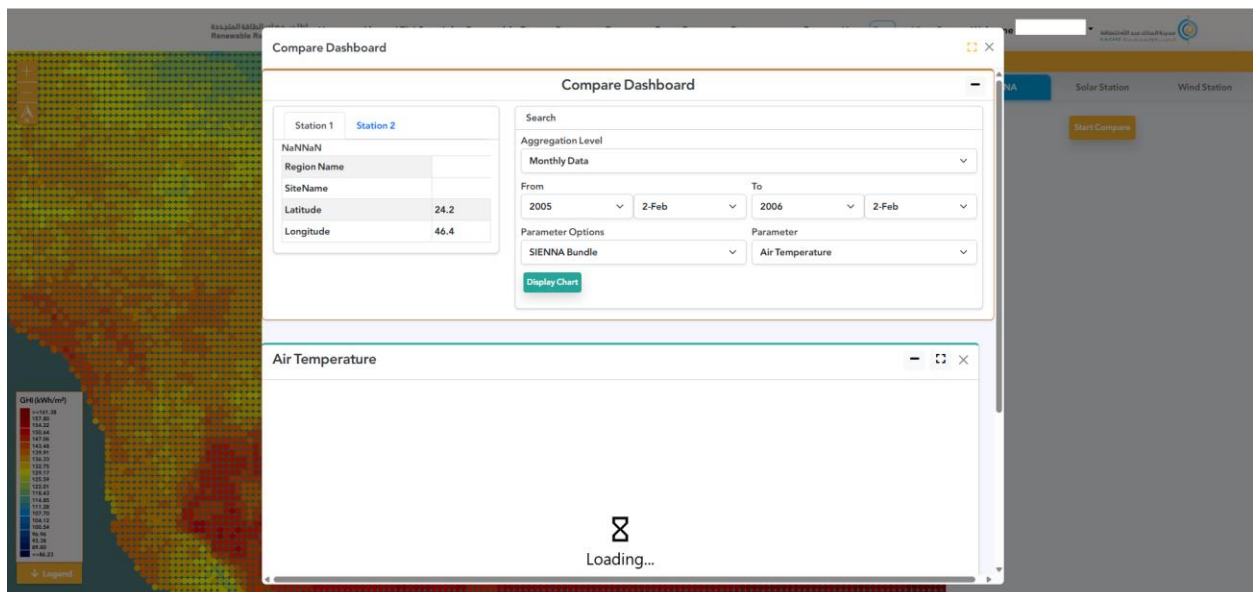


Figure 86: Dashboard Configuration



iv. TMY

The Typical Meteorological Year (TMY) service provides long-term, representative meteorological datasets. TMY time series have been constructed for the 50th percentile (average) conditions as well as for 90th percentile low-irradiance conditions. These datasets are commonly used for energy system design, feasibility studies, and performance simulations.

To begin the data request process, click on “Request Service” (Figure 87).

The screenshot shows the 'TMY Data' page on the official government website of the Kingdom of Saudi Arabia. The page includes a navigation bar with links like Home, About ATLAS, Atlas Renewable Energy Resources Data, Open Data, Resources, Contact Us, and a language selector (En). The main content area is titled 'TMY Data' and features a description of the Solar Irradiance Estimation with Neural Network Algorithm (SIENNA). A 'Request Service' button is prominently displayed. To the right of the button is a 'Service Information' panel detailing service duration, target audience (Government entities, Developers, Companies), service cost, and beneficiaries (Government, Private Sector). Below the main content, there are links for 'About the Service', 'Terms & Requirements', and 'How to Apply'. A sidebar on the left contains a chatbot icon and a list of steps to request the service: 1. Click on the service link, 2. Select 'Typical Meteorological Year (TMY) Data', 3. Choose the target location, and 4. Click continue.

Figure 87: Request Service



On this page, the user can explore the pricing details by navigating to Service Cost section, clicking on “Pricing” within that section to review the full breakdown of fees before proceeding (Figure 88).

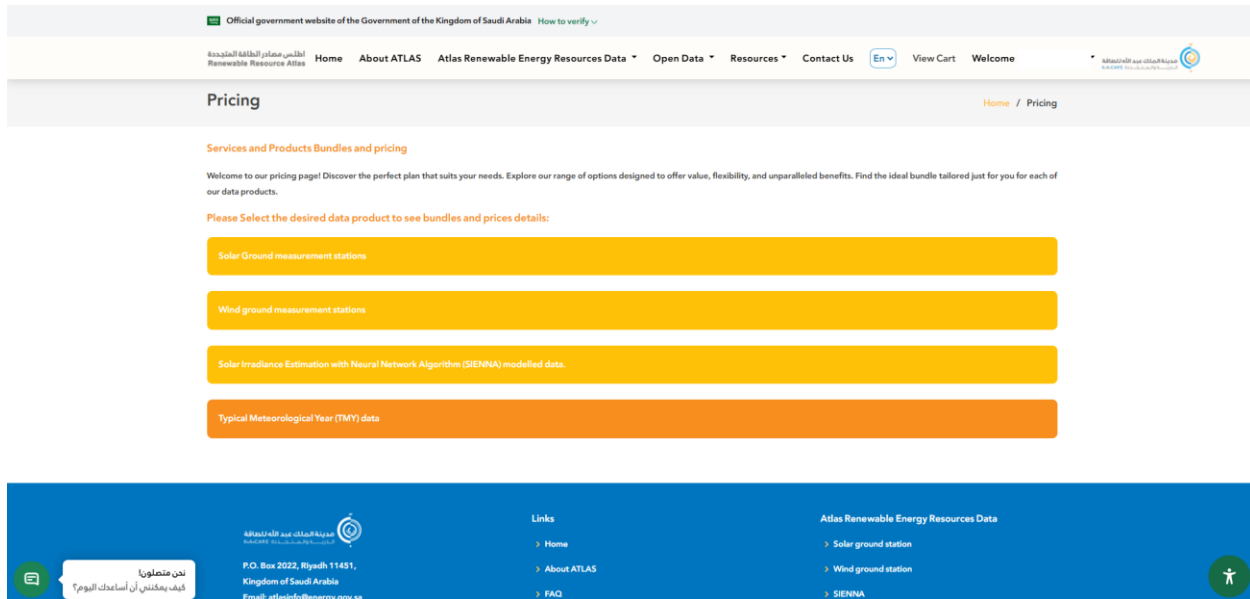


Figure 88: Pricing Details

Select the TMY resolution type and location coordinates to proceed with the request (Figure 89).

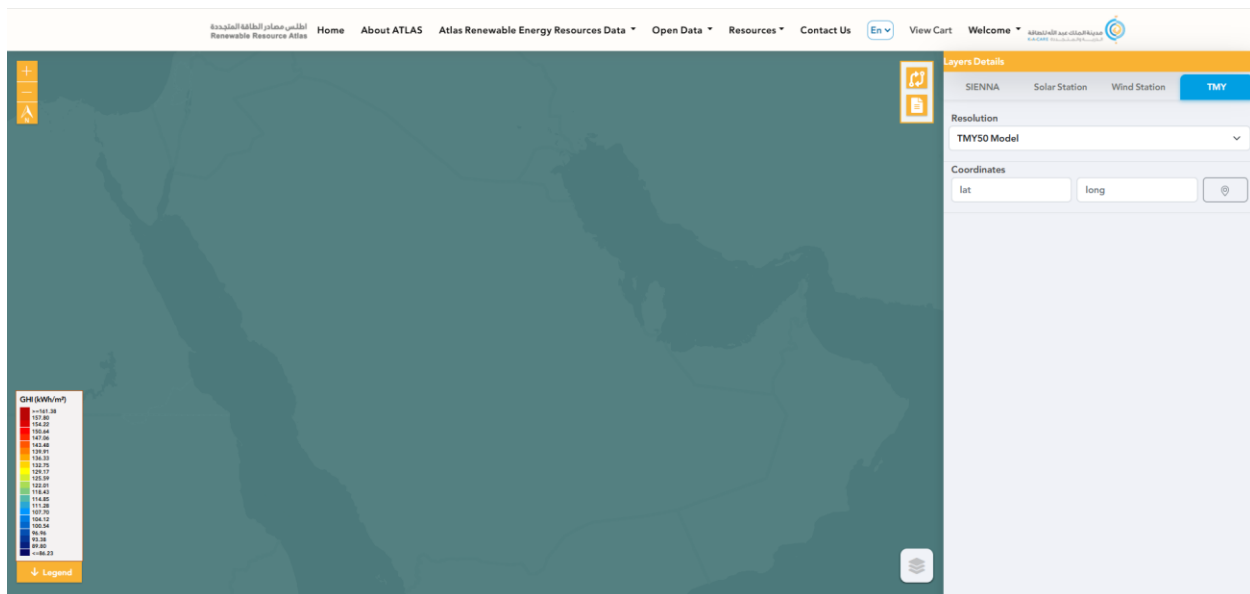


Figure 89: TMY Required Information



Open Data

The Open Data tab provides access to publicly available datasets and APIs related to renewable energy resources.

To access these services, navigate to the Open Data section from the platform toolbar (Figure 90).

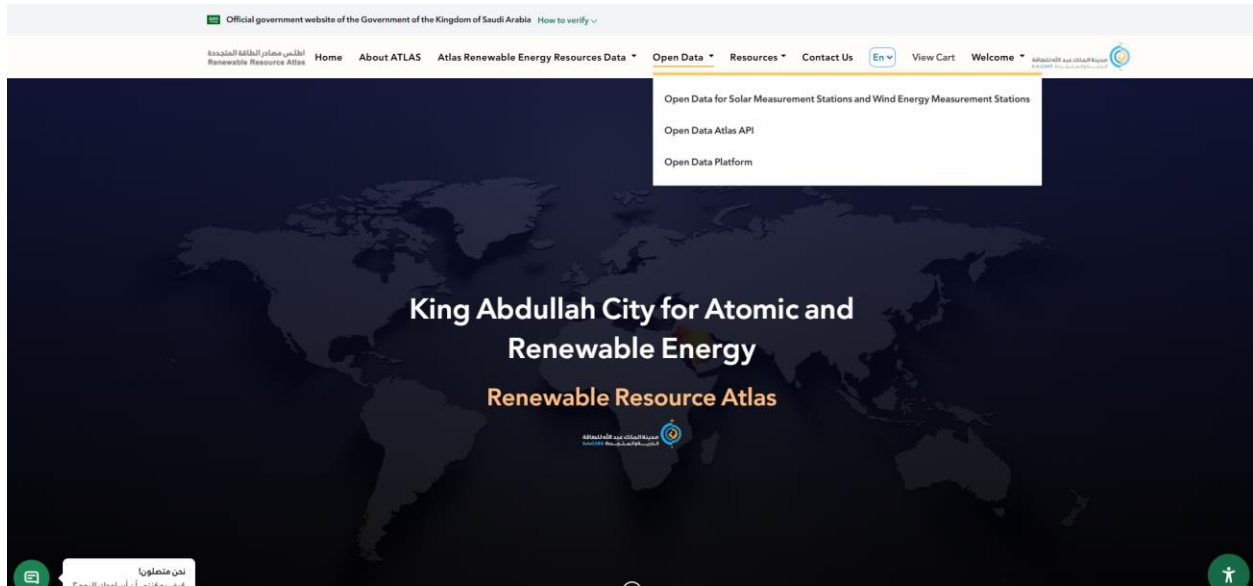


Figure 90: Open Data Tab

i. Open Data for Solar Measurement Stations and Wind Energy Measurement Stations

Under the Open Data tab, click on the service named “Open Data for Solar Measurement Stations and Wind Energy Measurement Stations”.

After selection, the platform will redirect the user to the open data services page, where solar and wind measurement datasets can be accessed (Figure 91).

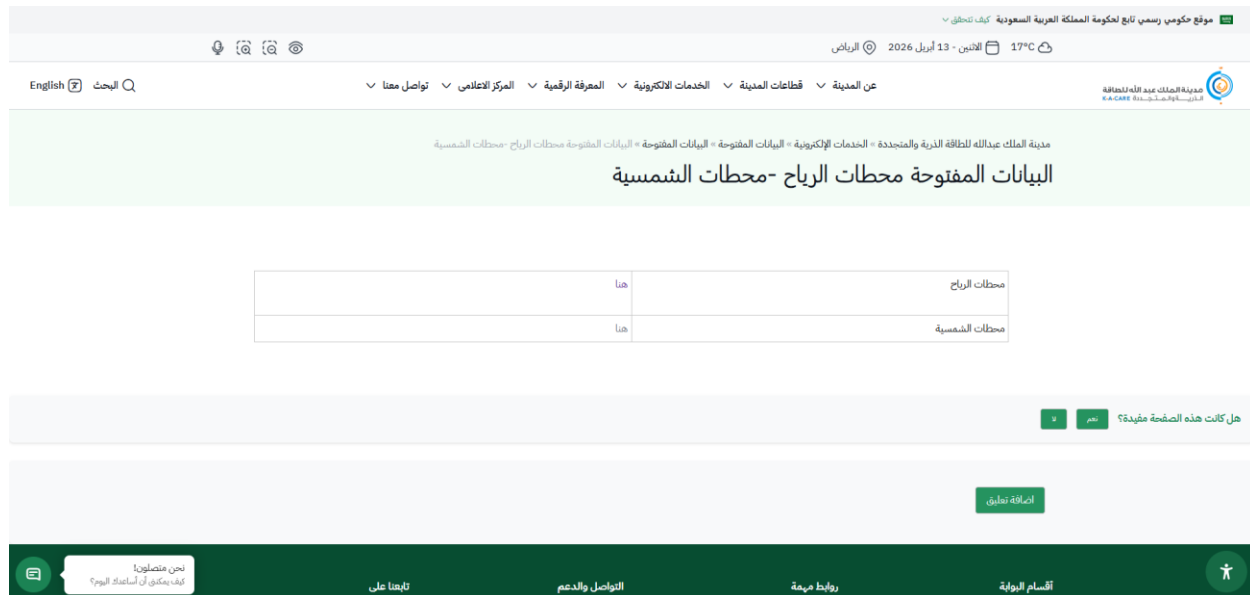


Figure 91: Open Data for Solar and Wind Page



ii. Open Data Atlas API

From the Open Data tab, click on the intended API service.

The user will be redirected to the open data platform (Figure 92), where API-based data services are available for integration and programmatic access.

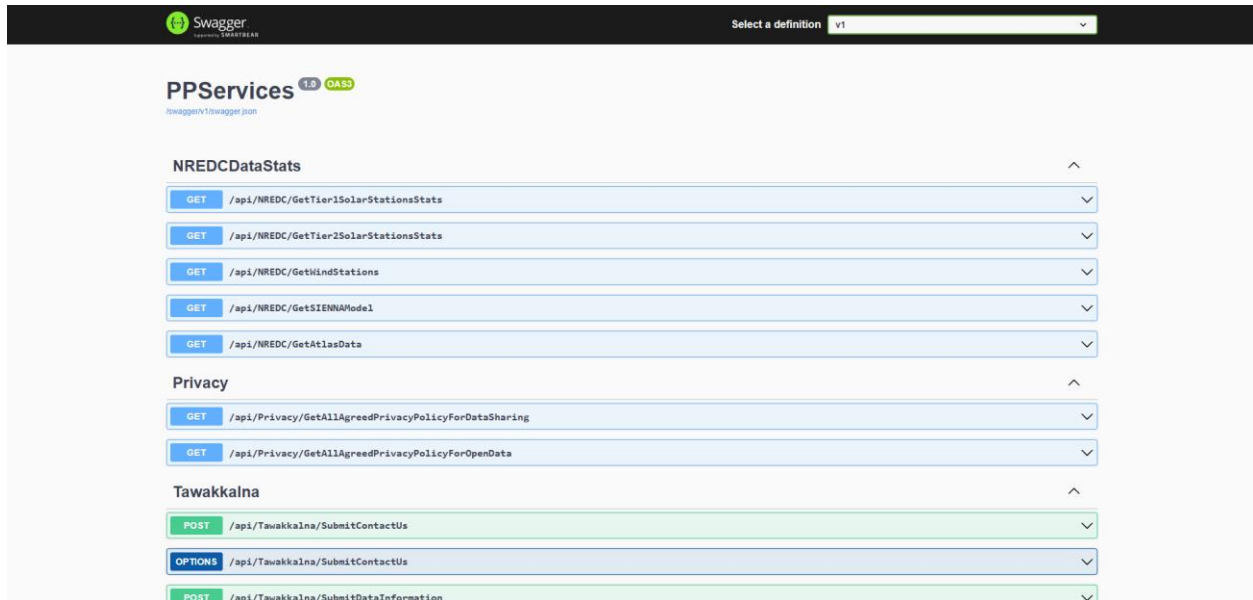


Figure 92: Open Data Atlas API

iii. Open Data Platform

Click on the Open Data Platform option within the Open Data tab.

The platform will redirect the user to the Saudi Open Data Platform (Figure 93), where datasets published by King Abdullah City for Atomic and Renewable Energy are available.

These datasets include a wide range of renewable energy and related data resources.

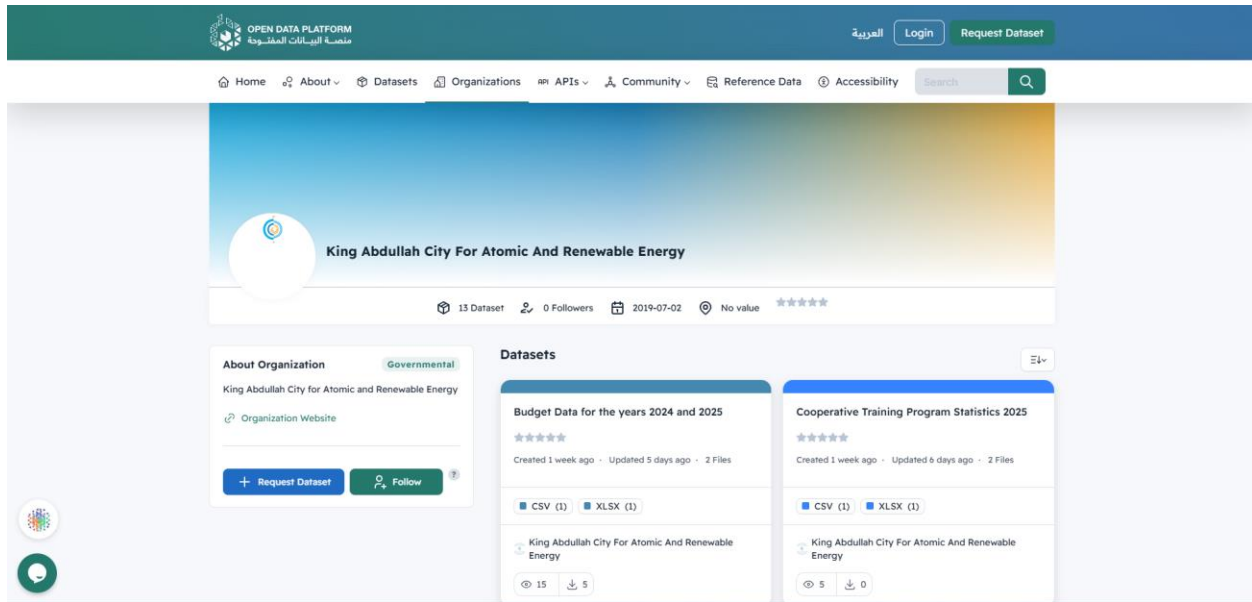


Figure 93: Open Data Platform



Resources

The Resources section provides users with access to supporting materials, technical information, and communication tools related to the Renewable Resource Atlas platform.

To access these resources, navigate to the Resources tab in the platform toolbar (Figure 94).

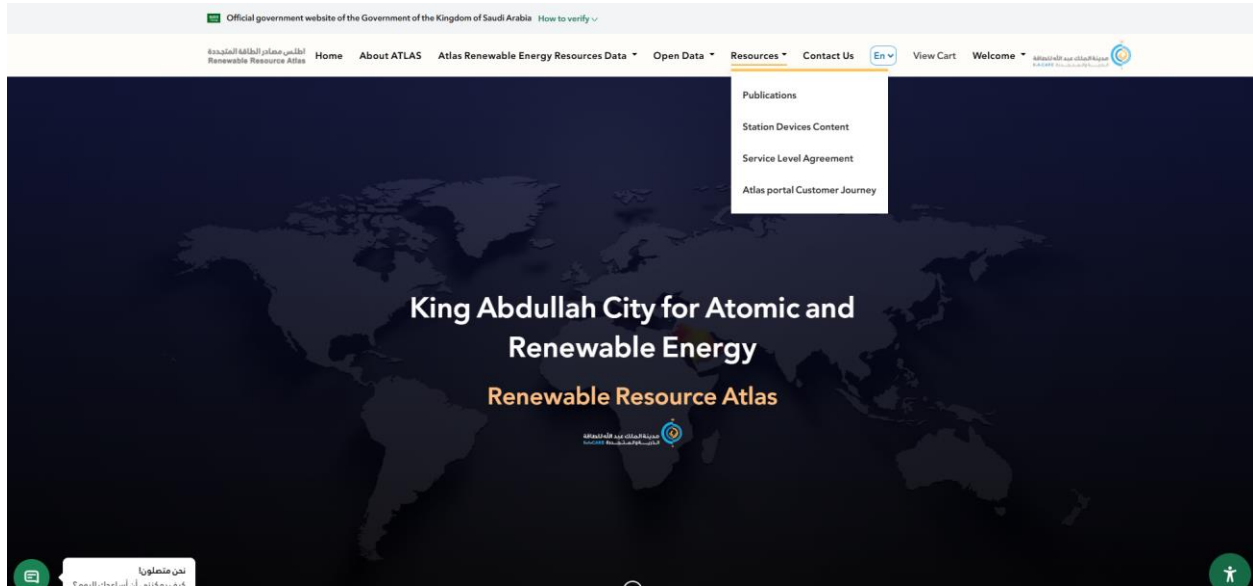


Figure 94: Resources Tab



i. Publications

Click on the “Publications” tab under the Resources section (Figure 95).

Users can browse and access publications developed in collaboration with national and international partners using Atlas data. These publications provide insights, research findings, and technical studies related to renewable energy.

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Publications

Home / Publications

Publications

These are articles that KACARE staff have published, collaborating with several of its national and international partners.

- Optimized Cleaning Cost and Schedule Based on Observed Soiling Conditions for Photovoltaic Plants in Central Saudi Arabia

Russell K. Jones, Abdulaziz Baras, Abdullah Al Saeedi, Ayman Al Qahtani, Ahmed O. Al Amoudi, Yousef Al Shaya, Maher Alodan, and Shafi Ali Al-Hsaien. "Optimized Cleaning Cost and Schedule Based on Observed Soiling Conditions for Photovoltaic Plants in Central Saudi Arabia." IEEE JOURNAL OF PHOTOVOLTAICS 6.3, (2016): 730-38.

- Parabolic Trough Collector Power Plant Performance Simulation for an Interactive Solar Energy Atlas of Saudi Arabia

Mercedes Ibarra, Miguel Frasset, Abdulaziz Al Rashed, Arttu Tuomiranta, Sami Gasim, and Hosni Ghedira. "Parabolic Trough Collector Power Plant Performance Simulation for an Interactive Solar Energy Atlas of Saudi Arabia." AIP CONFERENCE PROCEEDINGS 1734, 160009 (2016): 1-8.

- Assessment of solar radiation resources in Saudi Arabia

Erica Zell, Sami Gasim, Stephen Wilcox, Suzan Katamoura, Thomas Stoffel, Husain Shibli, Jill Engel-Cox, and Madi Al Suble. "Assessment of Solar Radiation Resources in Saudi Arabia." SOLAR ENERGY 119, (2015): 422-438.

- Opportunities and Challenges of solar Energy in Saudi Arabia

A. Baras, W. Bamhair, Y. Alkosh, M. Alodan, J. Engel-Cox. "Opportunities and Challenges of solar Energy in Saudi Arabia." WORLD RENEWABLE ENERGY FORUM, 4721 Denver (2012).

- Solar Data Modification for The Ground Solar Measurements Network in Saudi Arabia: Solar Irradiance Correction & Imputation

Alghamdi, Yusif, Al-Dossari, Hmood, Katamoura, Suzan, and Bafana. Ramzi. "Solar Data Modification for The Ground Solar Measurements Network in Saudi Arabia: Solar Irradiance Correction & Imputation." (Feb 2021), pp. 104.

These are articles that other researchers have published.

- A Multicriteria Decision Making Approach for Evaluating Renewable Power Generation Sources in Saudi Arabia

Hassan Al Garmi, Abdulrahman Kassem, Anjali Awasthi, Dragan Komljenovic, Kamal Al-Haddad. "A Multicriteria Decision Making Approach for Evaluating Renewable Power Generation Sources in Saudi Arabia." SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS 16, (2016): 137-150.

نحن نمنحكم
كيف يمكنني أن أساعدك اليوم؟

Figure 95: Publication Page



ii. Stations Devices Content

Click on the “Stations & Devices Content” tab.

This section provides a comprehensive overview of measurement stations operated by King Abdullah City for Atomic and Renewable Energy (Figure 96). These stations and instruments serve as a crucial point for gathering data pertaining to solar and wind energy.



Figure 96: Station and Devices Content

iii. Service Level Agreement

Click on the “Service Level Agreement” tab to access the document (Figure 97).

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Renewable Resource Atlas

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Service Level Agreement [Home](#) / Service Level Agreement

Service Level Agreement

In alignment with King Abdullah City for Atomic and Renewable Energy's continuous commitment to enhancing service quality and in adherence to government directives aimed at achieving customer satisfaction, KACARE is actively working towards expanding the availability of swift and user-friendly e-services through the Atlas Portal. It is important to note that the speed of service delivery is contingent upon various factors, including the time required for rectifying missing data when clients fail to provide all necessary information, as well as the processing duration when applications involve third-party entities, such as other government agencies.

Moreover, clients are expected to adhere to the specific Terms and Conditions, which can be found on both the Atlas portal and the official KACARE website. We continuously update and augment our suite of e-services, and we encourage you to stay informed about these offerings.

Help and Support

You can communicate through the following mail for support regarding the Atlas portal: atlasinfo@energy.gov.sa. Visit the [Contact Us](#) page for more information.

Privacy and Confidentiality of Information

The Atlas Portal prioritizes user information privacy and confidentiality, considering our privacy and confidentiality policy an integral part of the terms and conditions for using the Portal. If you would like to learn more about our privacy and confidentiality practices, please visit the [Privacy Policy](#) page for additional details.

Communication and Participation Mechanism

The Atlas Portal is committed to promptly engaging with and addressing all received requests and inquiries through the [Contact Us](#) page or through the Atlas team email atlasinfo@energy.gov.sa.

Business E-Services	Total Time	E-Service Available
Monthly Solar Ground Station Data	1 business day	24 / 7
Monthly Wind Ground Station Data	1 business day	24 / 7

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Figure 97: Service Level Agreement



iv. Atlas portal Customer Journey

Click on the “Atlas Portal Customer Journey” tab. Users can view a structured overview of the Atlas platform user journey, including key steps within the system (Figure 98).

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Atlas portal Customer Journey

Home / Atlas portal Customer Journey

Atlas portal Customer Journey

Welcome to Atlas, where your journey toward data-driven insights begins. Atlas provides different products and services for different stakeholders, each product and service business model will depend on which user type. That's why we've designed a seamless customer journey to guide you through every step, from creating an account to data acquisition.

At Atlas, we're committed to providing a customer-centric experience, ensuring you have access to the information and support you need. Our customer journey will provide a clear overview of the process. Along the way, we'll equip you with the knowledge to navigate the Atlas portal, select the data that best suits your needs, acquire the data, and seamlessly integrate it into your workflow. Our team of experts is always here to assist you, providing guidance and resolving any queries that may arise, please find below the Customer Journey from 1 to 8:

1. Sign up/Sign in: Create an account on the Atlas portal or sign in
2. Email confirmation: Confirm your email address by providing the OTP code that has been sent to your email.
3. Choosing the services and products: You can access the Atlas map and choose the data products, location, resolution, periods, bundles/parameters.
4. Data Order: Select the data you want to order and fill in the requested information on the Atlas portal.
5. Data Sharing Agreement: View the order and quotation, read, and confirm that you accept the Data Sharing Agreement before placing an order.
6. Payment: Customers can pay for their order after receiving the payment information via email.
Note: Local university students and researchers will have a 100% discount for all data products.
7. User Receive Data: Customers will receive their data via email from the Atlas team.
8. Survey: Customers will receive a short survey about the customer's journey and experience.

Email Orders Customer Journey

In the event of an unexpected website outage, we've implemented an alternative method to ensure you continue to receive the data products you need. Our email customer journey provides a seamless and personalized experience, allowing you to navigate the entire process from order placement to data delivery through direct communication with our Atlas team as follows:

1. Request Data: Send a request to obtain data to the following email: atlasinfo@energy.gov.sa
2. Sending requirements: We will respond and share the service model
3. Provide personal and order details: Fill out the sent form with the following information:
 - o Full Name
 - o ID/passport number
 - o Organization
 - Student ID (if any)

Figure 98: Atlas Portal Customer Journey



Contact Us

Click on the “Contact Us” tab. Use the contact form to send inquiries or request additional information regarding Atlas services. Enter the required details and submit the message to King Abdullah City for Atomic and Renewable Energy (Figure 99)

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Contact Us Home / Contact Us

English

Contact Us - Atlas

Name *

Mobile Phone *

Email *

Select Service Type *

Subject *

☐ [الموافقة على سياسة الخصوصية للاطلاع هنا](#)

Write your message here

نحن متعلون
كيف يمكنني أن أساعدك اليوم؟

Figure 99: Contact Us Tab



Profile

Under the Profile tab (Figure 100), click to open the menu and navigate through the available options: view profile, view cart, my orders, and logout.

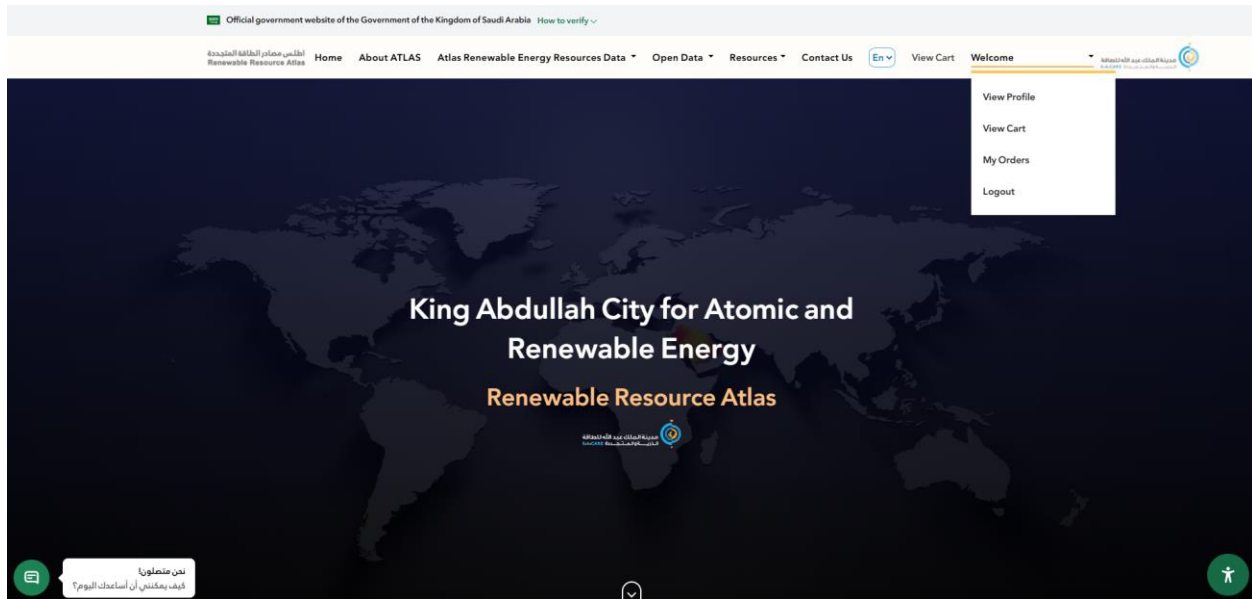


Figure 100: Profile Tab

i. View Profile

Select “View Profile” to access, review, and edit personal information (Figure 101).

Figure 101: View Profile



ii. View Cart

Choose “View Cart” to see the items added to your cart (Figure 102).

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Home About ATLAS Atlas Renewable Energy Resources Data Open Data Resources Contact Us En View Cart Welcome

Cart Home / Cart

S. No	Type	Location	Product	Resolution	Date Range	Price
1	Solar Ground Station	Abha Technical Institute	Advanced Bundle	Monthly Data	May 01, 2017 - Jun 30, 2020	0
Total						0

Clear Cart Checkout

P.O. Box 2022, Riyadh 11451,
 Kingdom of Saudi Arabia
 Email: atlasinfo@energy.gov.sa

Links
 > Home
 > About ATLAS
 > FAQ
 > Terms and Conditions
 > Privacy policy

Atlas Renewable Energy Resources Data
 > Solar ground station
 > Wind ground station
 > SIENNA
 > TMY

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Figure 102: View Cart

iii. My Orders

Click on “My Orders” to track, review, and download previous orders (Figure 103).

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My Orders Home / My Orders

10 entries per page Search:

Id	Order Status	Payment Status	Total Price	Order Date	Attachments	Action
1317	Downloaded	Payment Not Required	0	4/13/2026 12:22:26 PM		
1316	Downloaded	Payment Not Required	0	4/13/2026 12:08:35 PM		
1315	Downloaded	Payment Not Required	0	4/13/2026 11:28:29 AM		
1300	Downloaded	Payment Not Required	0	2/25/2026 12:55:17 PM		

Showing 1 to 4 of 4 entries

P.O. Box 2022, Riyadh 11451,
 Kingdom of Saudi Arabia
 Email: atlasinfo@energy.gov.sa

Links
 > Home
 > About ATLAS
 > FAQ
 > Terms and Conditions

Atlas Renewable Energy Resources Data
 > Solar ground station
 > Wind ground station
 > SIENNA
 > TMY

Figure 103: My Orders



iv. Logout

To exit the platform, select “Logout” (Figure 104).

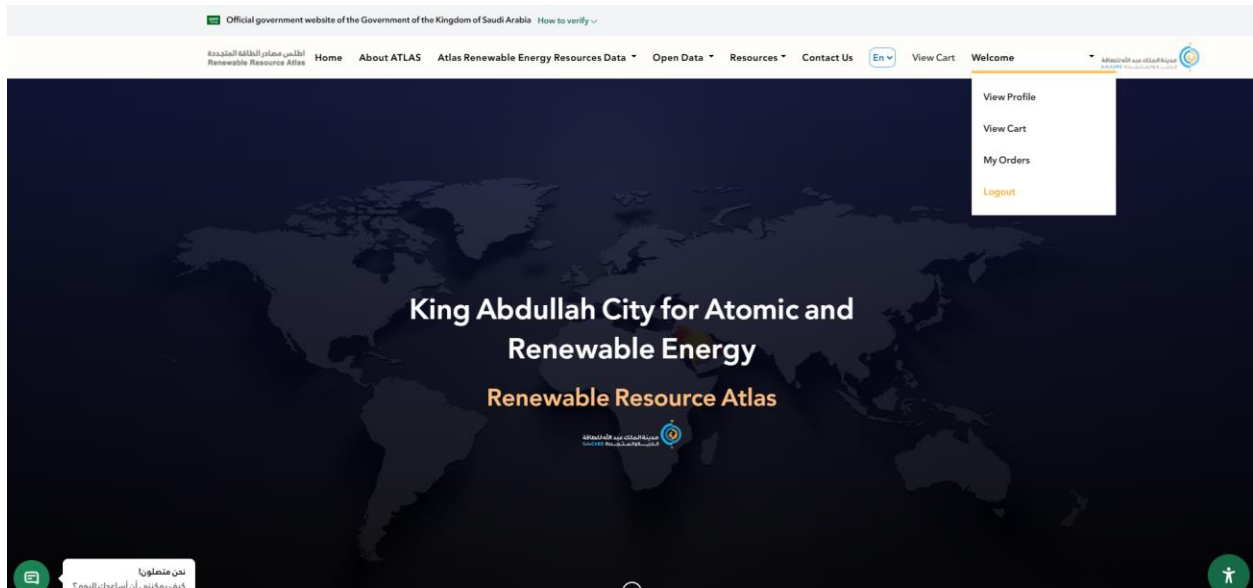


Figure 104: Logout

