



User guide: Access to NGFS scenario data

Data & Resources

Contents

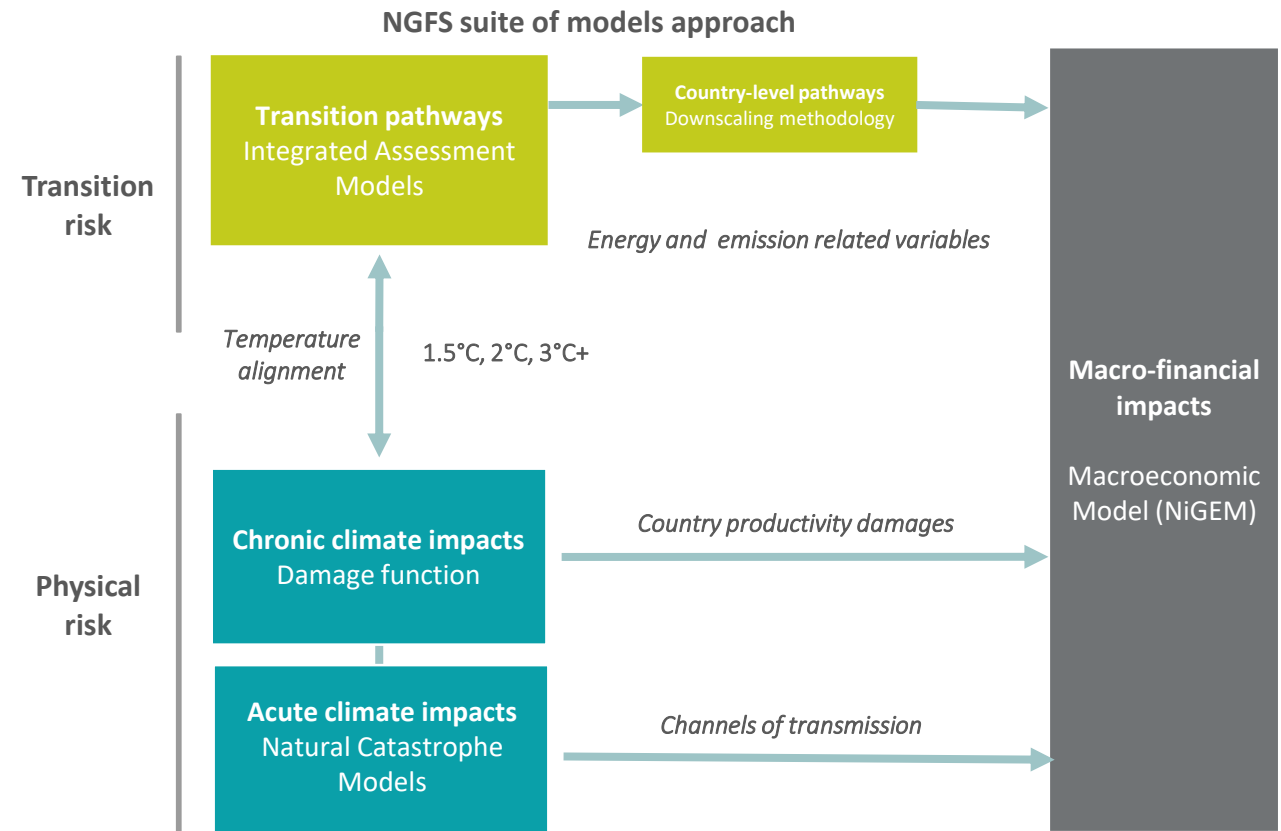
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Overview: Data and Navigation Tools

Overview: Modelling and scope

The NGFS scenarios provide a range of data on climate-related transition risk, physical risk and economic impacts. This is produced by a suite of models aligned in a coherent way.

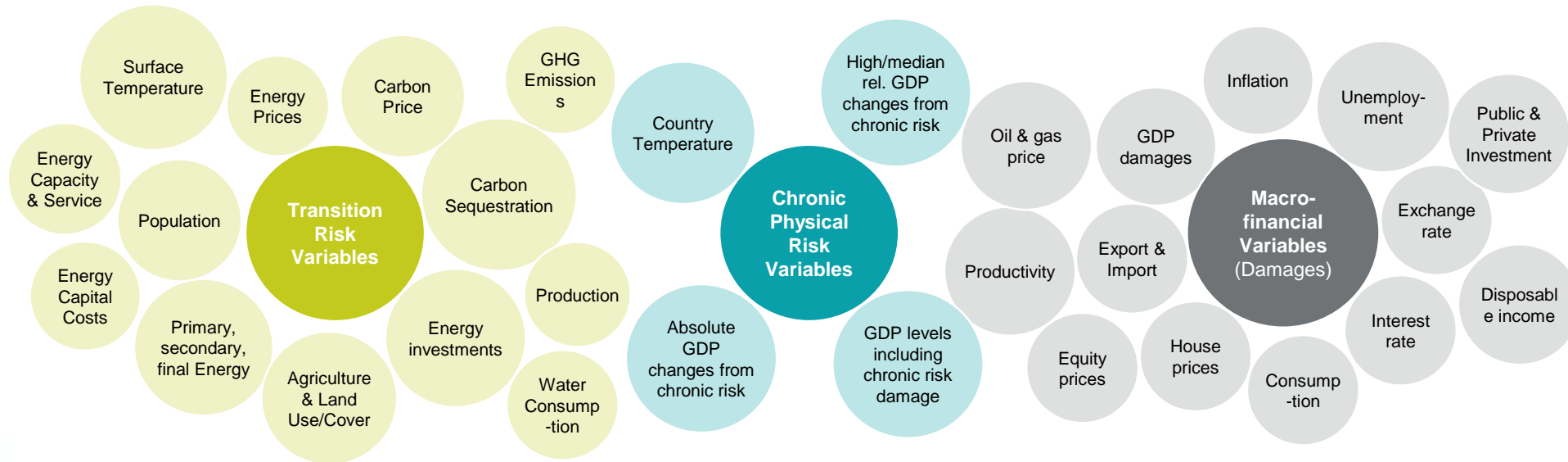
- **Transition variables** are separately produced by the three **Integrated Assessment Models (IAMs)**: GCAM, MESSAGE and REMIND. These flow into the economic modelling.
- **Climate and physical risk variables** are produced by **separate modelling**. They provide chronic and acute physical risk indicators, that likewise flow into the economic modelling.
- **Macro-financial variables** are produced by the **econometric model NiGEM**, based on respective IAM and physical risk inputs.



Overview: Model outputs

NGFS scenarios have several key model outputs that are distributed across several dimensions.

- Models:** The data is the output of three IAMs, the econometric model NiGEM based on IAM inputs and separate modelling for physical acute risks. As mentioned, each provides different variable categories.
- Time:** Scenario data from IAMs is available in 5-year time steps until 2100. NiGEM provides yearly data until 2050.
- Regions:** Available regional granularity differs by model and variable. They reach from world over regional aggregates to country-level.
- Variables:** Variables can be separated in three categories, covering physical and transition risk and macro-financial impacts. Their availability differs by model as well as regional and sectoral granularity.

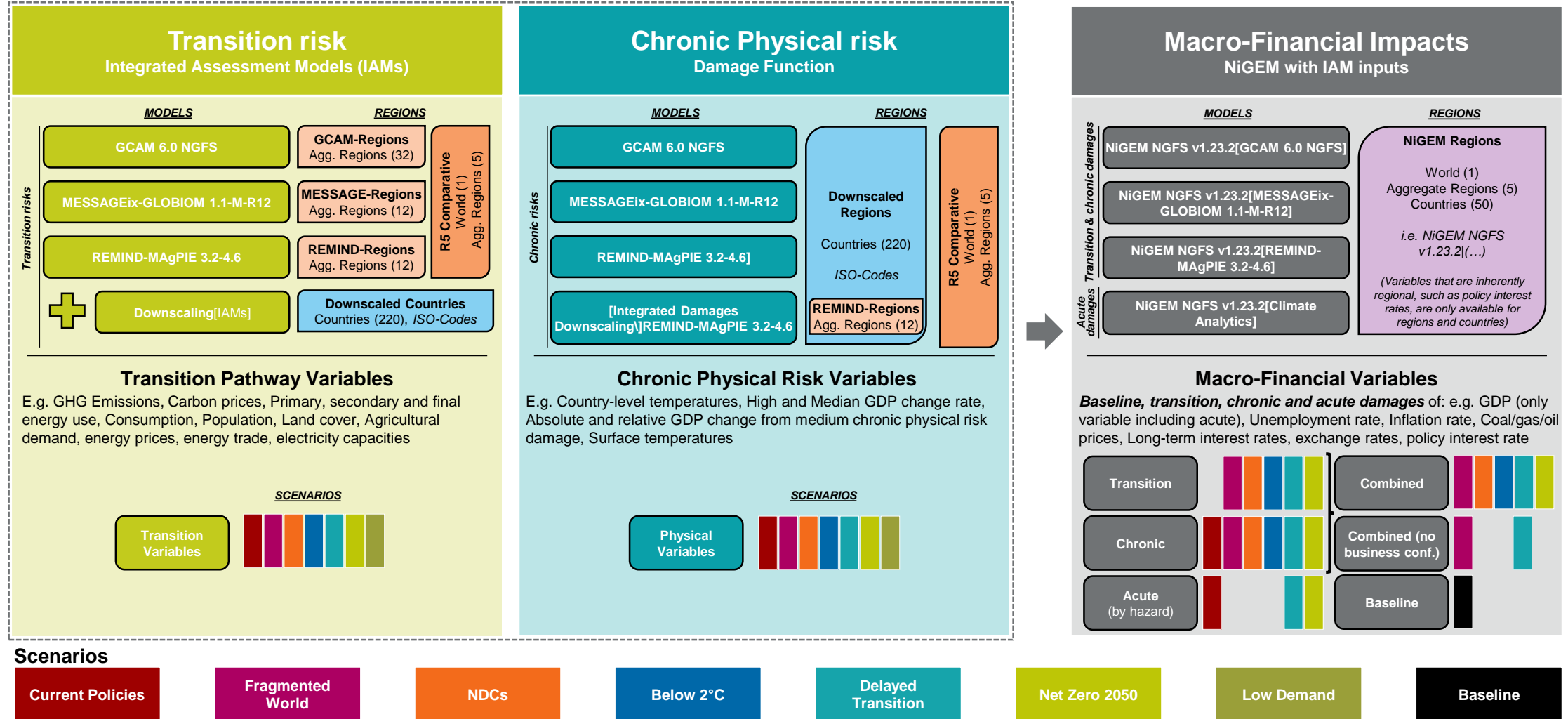


For an overview, we recommend using the Documentation in the [NGFS IIASA scenario explorer](#) as well as the [EnTry Parameter Guide](#) to identify available dimensions and parameters as well as combinations thereof.

Overview: Phase IV data dimensions

Navigating and querying NGFS Scenario Data requires an understanding of data availability across combinations of parameters. The below abstraction shows the dimensions of models, regions and scenarios per variable category.

Find the full list of variables and their full names under the IASA Scenario Explorer documentation tab. See the Technical Documentation for further details on models, variables and other parameters. Additionally, EnTry provides a parameter guide to navigate data dimensions.

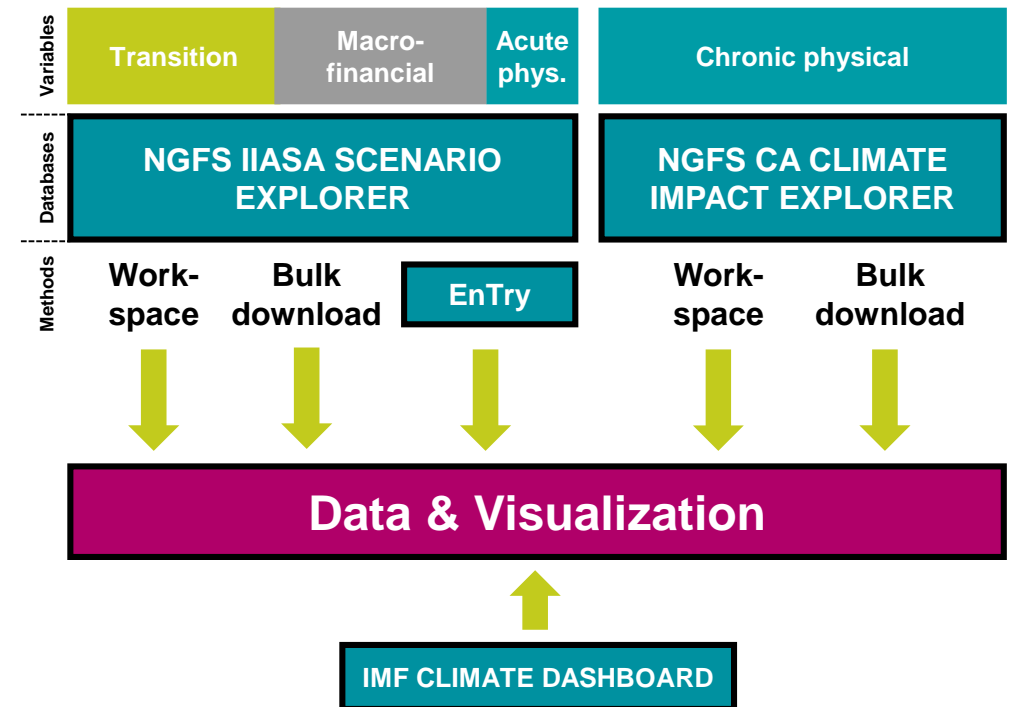


Overview: Data access and navigation methods

NGFS climate scenario data is published on two native platforms. There are several ways to access the data, based on users' analytical processing needs.

There are three main access methods to NGFS climate scenario data:

- **Workspaces:** Both native data explorers, [NGFS IIASA Scenario Explorer](#) and [Climate Impact Explorer](#), provide online interfaces to visualise and explore the data. Users can explore and compare variables over scenario, region and model.
- **Downloads:** The full data can be downloaded in bulk or filtered as .csv or .xlsx data frames from [NGFS IIASA Scenario Explorer](#) or [Climate Impact Explorer](#).
- **Code-based access:** Both data explorers provide APIs to access the data in coding scripts directly. To facilitate users' access to this method, we provide the [NGFS EnTry Tool](#) (see slide 22).
- Additionally, the [IMF Climate Dashboard](#) offers a user-friendly exploration tool for key NGFS scenario data variables and respective visualization.



Overview: The NGFS scenarios portal

The [NGFS scenarios portal](#) acts as the starting point to all data portals and tools. Under **Data & Resources**, find access to the two native data explorers and additional official tools.

| | | |
|---|---|--|
| <h3>NGFS IIASA Scenario Explorer</h3> <p>This web-based user interface provides intuitive visualisations and display of the transition scenarios time series data. This database also includes macro-economic data from the National Institute Global Econometric Model (NiGEM) as well as data on the impact of physical risks on GDP.</p> <p><i>The scenario data is available for download as <code>xlsx</code> or <code>csv</code> files via the Transition Scenario Explorer, hosted by IIASA. Alternatively, the data can be accessed via a RestAPI or the open-source Python package <code>pyam</code>.</i></p> <p>Explorer Documentation</p> | <h3>NGFS CA Climate Impact Explorer</h3> <p>This web-based user interface provides intuitive visualisations and display of the physical scenarios time series data. Extended sets of physical data can be found in the Inter-Sectoral Impact Model Intercomparison Project (ISI-MIP) database. As a community-driven climate-impacts modelling initiative, ISI-MIP offers a consistent framework for cross-sectoral, cross-scale modelling of the impacts of climate change.</p> <p><i>The scenario data is available for download via the Climate Impact Explorer, hosted by Climate Analytics. Alternatively, the data can be accessed via an API.</i></p> <p>Explorer ISIMIP Database</p> | <h3>User Guide on Data Access</h3> <p>This document describes step-by-step how to access, download and work with NGFS Climate Scenarios (including with the NGFS IIASA Scenario Explorer and the NGFS Data EnTry – a data handling tool that supports users from data extraction to visualization with several pre-defined scripts).</p> <p>User guide</p> |
|---|---|--|

The NGFS portal is the point of entry for all new users to a first introduction and exploration of scenario data. It includes access to all data explorers and tools, the two native databases as well as the IMF Climate Dashboard and NGFS Data EnTry toolkit within the User Guide on Data Access.

- The [NGFS IIASA Scenario Explorer](#) provides intuitive visualisations and display of the transition scenarios time series data. This database also includes macro-economic data from NiGEM as well as data on acute physical risk impacts.
- The [NGFS Climate Impact Explorer](#) provides intuitive visualisations and display of the physical scenarios time series data, not limited to input used for the NGFS scenarios.
- The [NGFS Data Engagement and Transparency \(EnTry\) toolkit](#) (see slide 22) is a new data handling tool that supports users from data extraction to visualization with several pre-defined template scripts within one platform.
- The [IMF Climate Dashboard](#) shows key scenario variables in an intuitive user interface and acts as a first point of contact with NGFS scenario data.

NGFS IIASA Scenario Explorer

Access to the NGFS IIASA portal

The IIASA scenario explorer can be accessed from the NGFS scenarios portal. An account is optional, but provides options to save workspaces.

Explore the data

NGFS IIASA Scenario Explorer

This web-based user interface provides intuitive visualisations and display of the **transition scenarios** time series data. This database also includes macro-economic data from the National Institute Global Econometric Model (NIGEM) as well as data on the impact of physical risks on GDP.

The scenario data is available for download as xlsx or csv files via the Transition Scenario Explorer, hosted by IIASA. Alternatively, the data can be accessed via a RestAPI or the open-source Python package `pyam`.

[Explorer](#) [Documentation](#)



Welcome!

... to the User and Service Management Application of the IIASA Energy, Climate and Environment Program. This management service is the central place to manage user accounts and configurations for our web applications. To proceed please log in or register a new account.

Login

Username or E-Mail Address

Password

[Forgot your password? Reset...](#)

LOGIN

Register

Username

E-Mail Address

Password
Must contain at least 8 characters.

Confirm Password

I have read and agree to the privacy policy.
[Read privacy policy...](#)

REGISTER

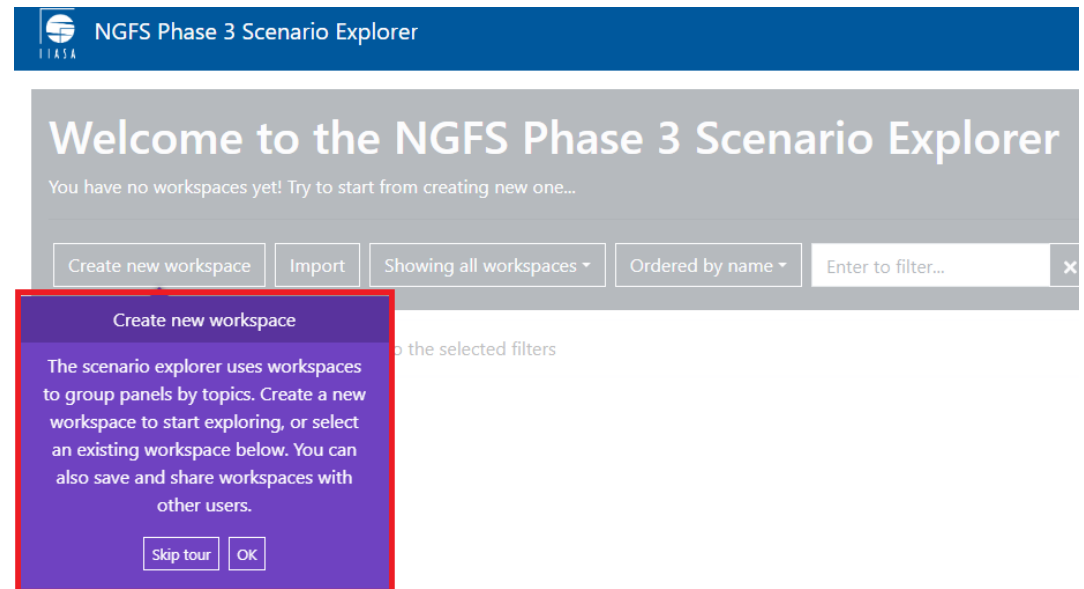
How to gain access to the IIASA portal? To save workspaces, simply create a (free) account [here](#) to gain access to Phase IV scenario data or simply access as a guest. Data of previous phases can be found in separate instances also available in the IIASA portal.

Using the NGFS IIASA Portal (1)

The IIASA scenario explorer allows to choose scenarios and models alongside variables and regions and visualise them.

To facilitate first steps, the IIASA scenario explorer tutorial provides a very helpful step-by-step tour to query the data for the first time. Additionally, [video tutorials](#) are offered on using the IIASA scenario explorer.

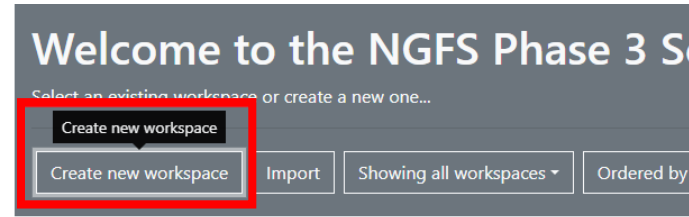
The main functionalities for exploring and downloading the data will be listed in the next slides.



The screenshot shows the NGFS Phase 3 Scenario Explorer interface. At the top, there is a blue header with the IIASA logo and the text "NGFS Phase 3 Scenario Explorer". Below the header, a grey banner reads "Welcome to the NGFS Phase 3 Scenario Explorer" and "You have no workspaces yet! Try to start from creating new one...". A navigation bar contains buttons for "Create new workspace", "Import", and dropdown menus for "Showing all workspaces" and "Ordered by name", followed by a search input field "Enter to filter...". A purple tutorial overlay is positioned in the foreground, titled "Create new workspace". The overlay text states: "The scenario explorer uses workspaces to group panels by topics. Create a new workspace to start exploring, or select an existing workspace below. You can also save and share workspaces with other users." At the bottom of the overlay are "Skip tour" and "OK" buttons.

Using the NGFS IIASA Portal (2)

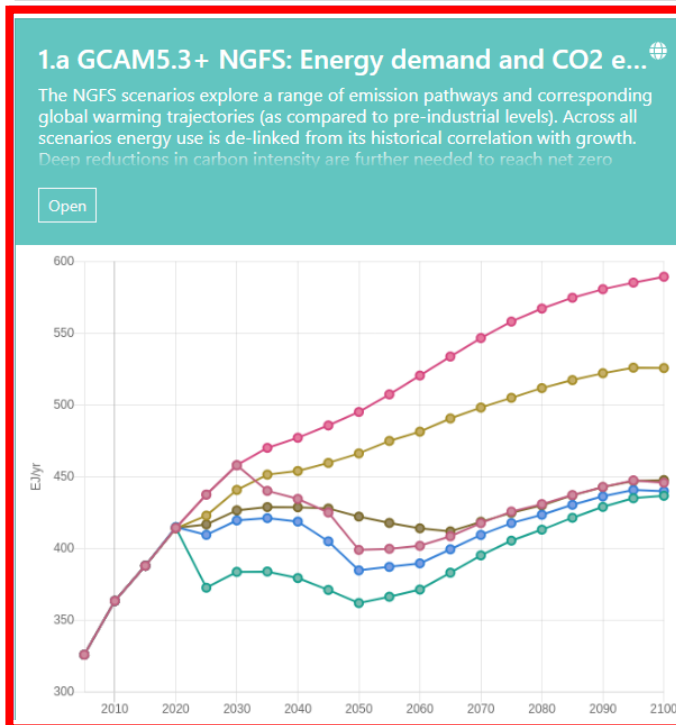
With “Create new workspace” you can create a clean workspace to select your variables, regions and scenarios.



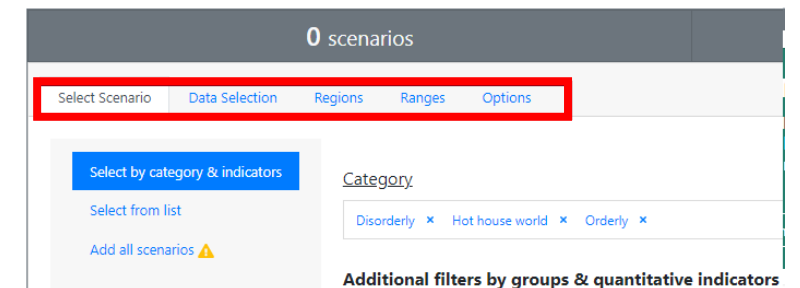
Choose “creating a new time series panel” – here you will be able to select your data by category.



The lower part of the page shows public analyses/queries that you can use if applicable to your needs.



New panel



Using the NGFS IIASA Portal (3)

To facilitate the start, select all scenarios.



Select Scenario | Data Selection | Regions | Ranges | Options

Select by category & indicators

Select from list

Add all scenarios ⚠

Category

Disorderly × Hot house world × Orderly ×

Additional filters by groups & quantitative indicator:

Select types of groups & indicators...

Select Scenario | Data Selection | Regions | Ranges | Options

Then select the variable of interest.



Groups

All | Energy | Emissions | Others

Timeseries variables

Final Energy (TOTAL) ×

Clear selection | Show only available variables from scenario select

Afterwards, select the region of interest, which must exist for the chosen variable.



72 scenarios

Select Scenario | Data Selection | Regions | Ranges

Regions

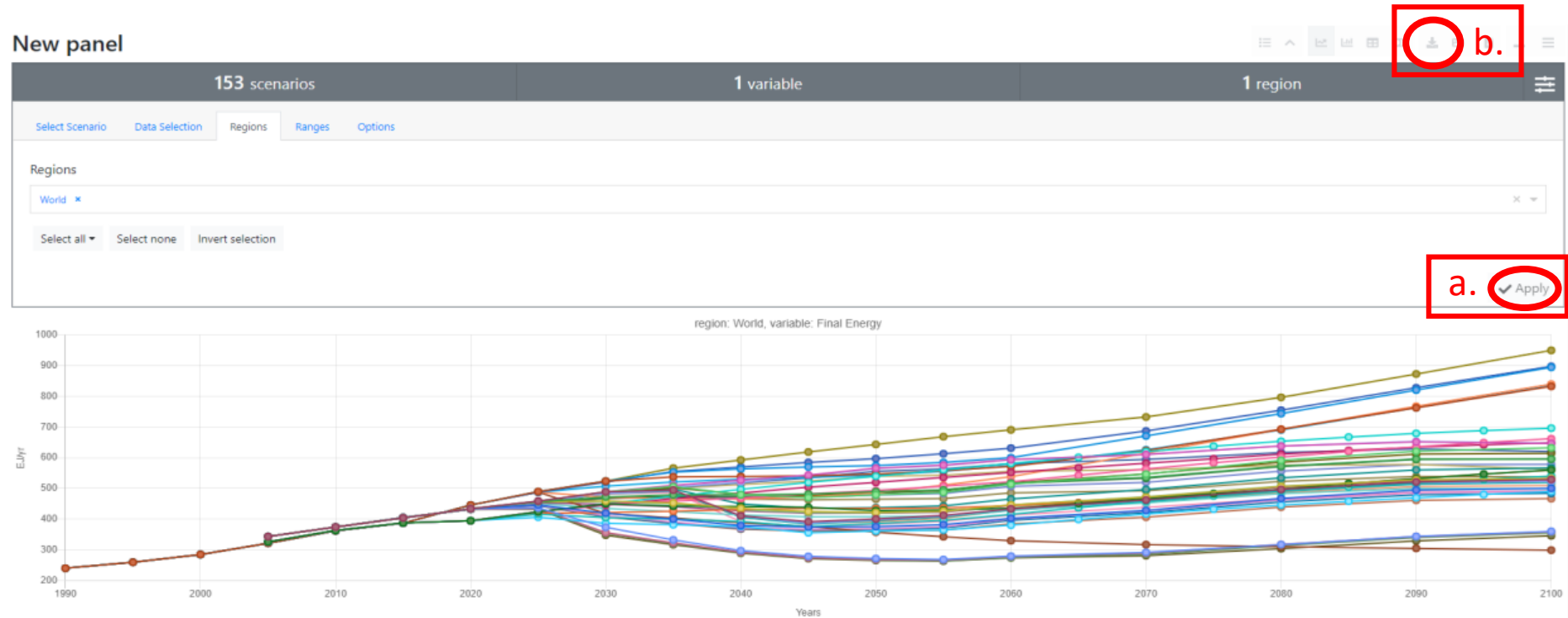
World ×

Select all ▾ | Select none | Invert selection

Using the NGFS IIASA Portal (4)

a. After selecting the parameters of interest, click “apply” to produce a chart based on the queried data.

b. The data can be downloaded in various formats by using the download button above the chart.



Using the NGFS IIASA Portal (5)

The IIASA Scenario Explorer allows to download files containing full NGFS scenario data.

Bulk downloads can be found under the *Downloads* tab. Downloaded time series data will be in IAMC-format, containing model, scenario, region, variable, unit and years as columns in .csv format.

NGFS Phase 3 Scenario Explorer

Workspaces Downloads Documentation License About guest

- Added the variables "GDP|PPP|Counterfactual without Damage" and "GDP|PPP|including chronic physical risk damage estimate" for the for the regions "TWN", "MAC" and "CHN".

3.2 (9 September 2022) DOI: 10.5281/zenodo.7085776

- Added "Baseline" scenario for NiGEM
- Moved MESSAGEix-GLOBIOM 1.1-M-R12 variables that were wrongly filed under "Downscaling [MESSAGEix-GLOBIOM 1.1-M-R12]" back to model native.

3.1 (7 September 2022) DOI: 10.5281/zenodo.7085758

- identical to 3.0 except in xlsx format

3.0 (6 September 2022) DOI: 10.5281/zenodo.7085661

- Original Phase 3 release
- Contains three csv files for:
 - Integrated assessment model data
 - Downscaled country-level data
 - NiGEM data

Files

Enter part of file name or description

Published files (5)

- V3.4 NGFS Phase 3 (DOI: 10.5281/zenodo.7198430) (created 8 months ago)
- V3.3 NGFS Phase 3 (DOI: 10.5281/zenodo.7181161) (created 8 months ago)
- V3.2 NGFS Phase 3 (DOI: 10.5281/zenodo.7085776) (created 9 months ago)
- V3.1 NGFS Phase 3 (DOI: 10.5281/zenodo.7085758) (created 9 months ago)
- V3.0 NGFS Phase 3 (DOI: 10.5281/zenodo.7085661) (created 9 months ago)

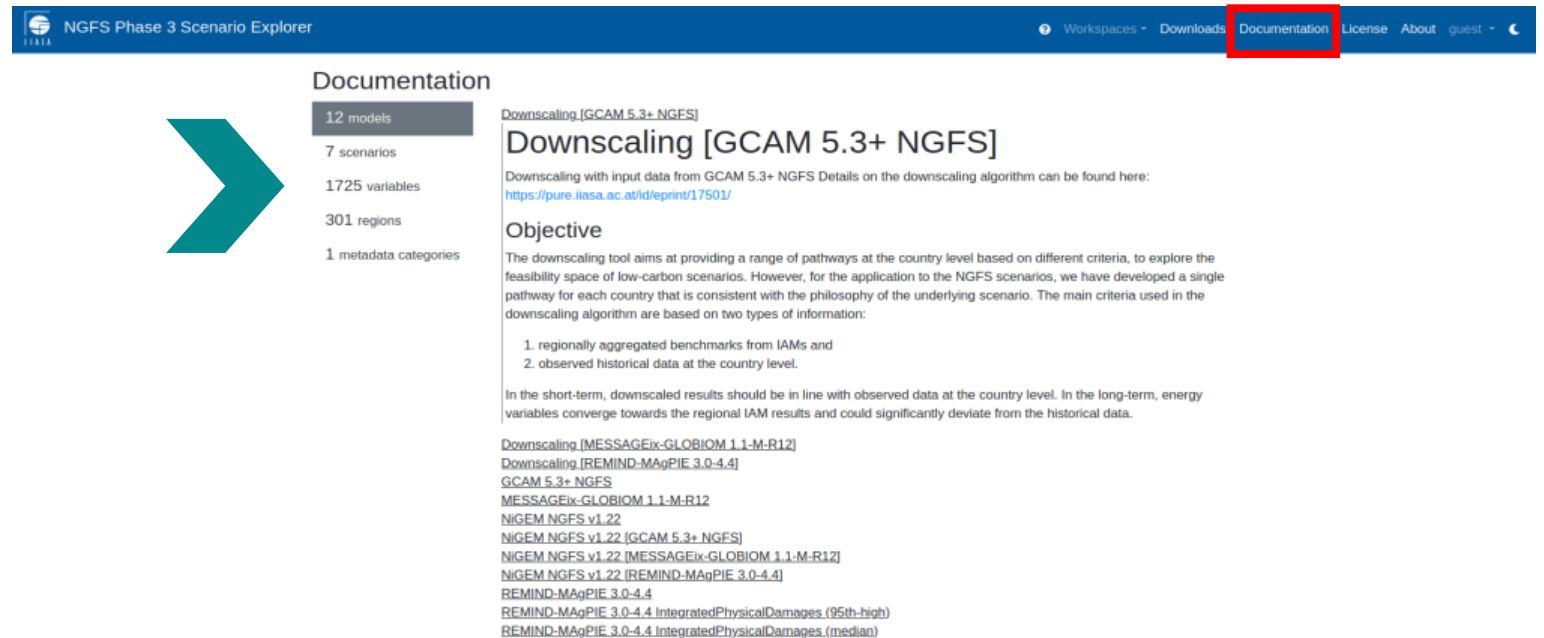
Download reference data

Using the NGFS IIASA Portal (6)

The receive an overview of all NGFS scenario parameters available in the IIASA Scenario Explorer refer to the portal's documentation.

To allow a better overview of available parameters (models, scenarios, etc.), a list of all parameters including more details about them can be found in the *Documentation* tab.

Slide 6 provides an overview of the different possible combinations.



NGFS Phase 3 Scenario Explorer

Workspaces Downloads **Documentation** License About guest

Documentation

- 12 models
- 7 scenarios
- 1725 variables
- 301 regions
- 1 metadata categories

Downscaling [GCAM 5.3+ NGFS]

Downscaling with input data from GCAM 5.3+ NGFS Details on the downscaling algorithm can be found here: <https://pure.iiasa.ac.at/id/eprint/17501/>

Objective

The downscaling tool aims at providing a range of pathways at the country level based on different criteria, to explore the feasibility space of low-carbon scenarios. However, for the application to the NGFS scenarios, we have developed a single pathway for each country that is consistent with the philosophy of the underlying scenario. The main criteria used in the downscaling algorithm are based on two types of information:

1. regionally aggregated benchmarks from IAMs and
2. observed historical data at the country level.

In the short-term, downscaled results should be in line with observed data at the country level. In the long-term, energy variables converge towards the regional IAM results and could significantly deviate from the historical data.

[Downscaling \[MESSAGEix-GLOBIOM 1.1-M-R12\]](#)
[Downscaling \[REMIND-MAgPIE 3.0-4.4\]](#)
[GCAM 5.3+ NGFS](#)
[MESSAGEix-GLOBIOM 1.1-M-R12](#)
[NIGEM NGFS v1.22](#)
[NIGEM NGFS v1.22 \[GCAM 5.3+ NGFS\]](#)
[NIGEM NGFS v1.22 \[MESSAGEix-GLOBIOM 1.1-M-R12\]](#)
[NIGEM NGFS v1.22 \[REMIND-MAgPIE 3.0-4.4\]](#)
[REMIND-MAgPIE 3.0-4.4](#)
[REMIND-MAgPIE 3.0-4.4 IntegratedPhysicalDamages \(95th-high\)](#)
[REMIND-MAgPIE 3.0-4.4 IntegratedPhysicalDamages \(median\)](#)

NGFS Climate Impact Explorer

The Climate Impact Explorer

The Climate Impact Explorer provides access to climate-related data for physical risk estimation and temperature alignment consistent with NGFS Scenarios temperature pathways.

The explorer provides visualisations in form of graphs and maps, for a range of regions and variables describing the severity of a broad range of physical climate impacts.

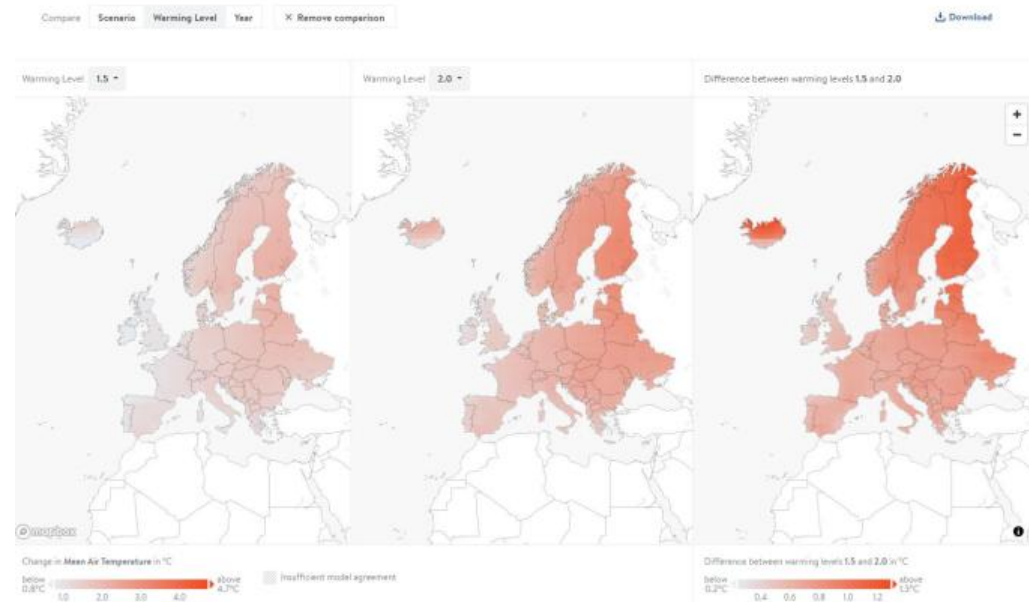
Absolute change in mean air temperature in Europe

This graph shows how absolute changes in Mean Air Temperature (expressed in degrees Celsius) will play out over time in Europe at different global warming levels compared to the reference period 1986-2006, based on the NGFS current policies scenario.



Mean Air Temperature in Europe at 1.5°C versus 2.0°C of global warming

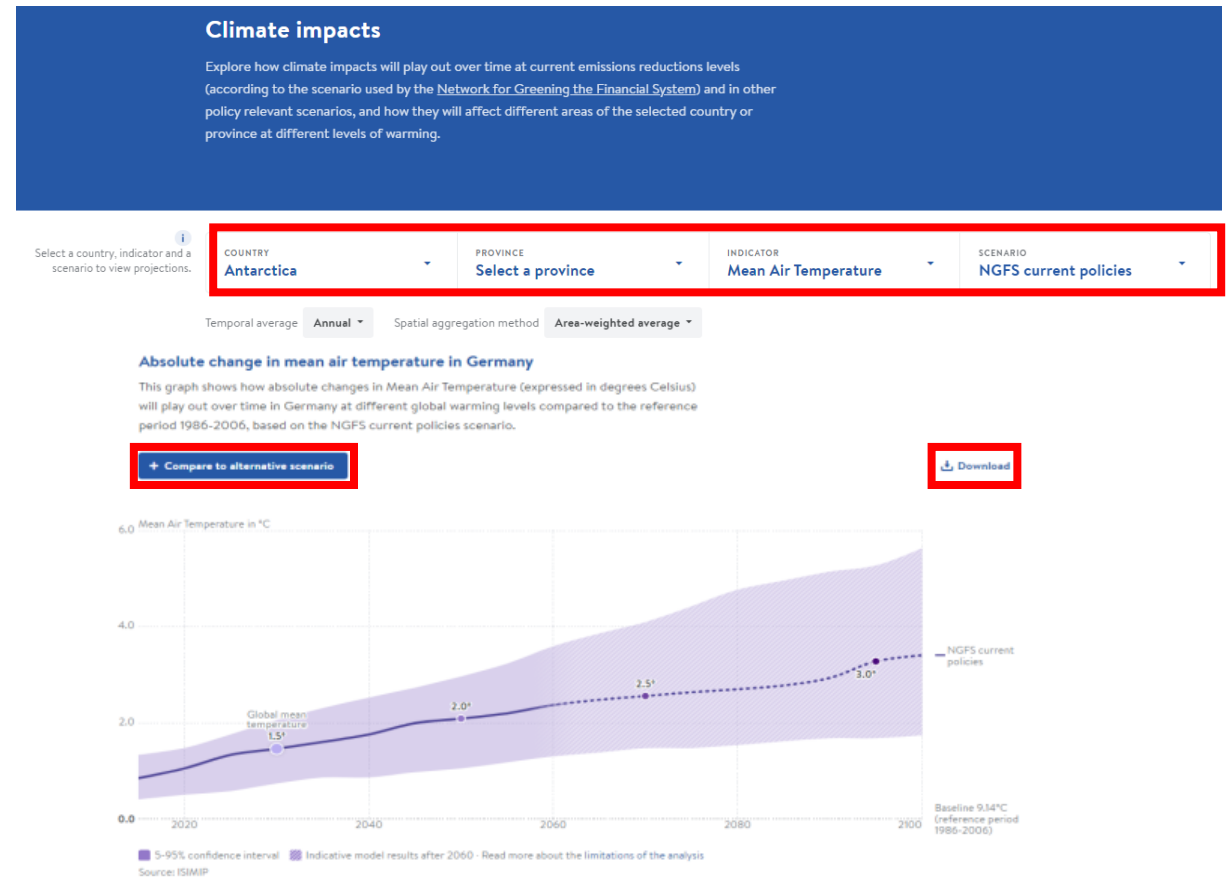
The left and middle maps show the projected change in Mean Air Temperature (in °C) in Europe since the reference period 1986-2006, at 1.5°C and 2.0°C of global warming. The third map shows the difference between the two.



Use of the Climate Impact Explorer

The Climate Impact Explorer is based on a simple and intuitive user interface that lets users choose a region, variable and scenario.

Choose countries, indicators and scenarios.



Forecast and confidence intervals can be downloaded and compared across scenarios.

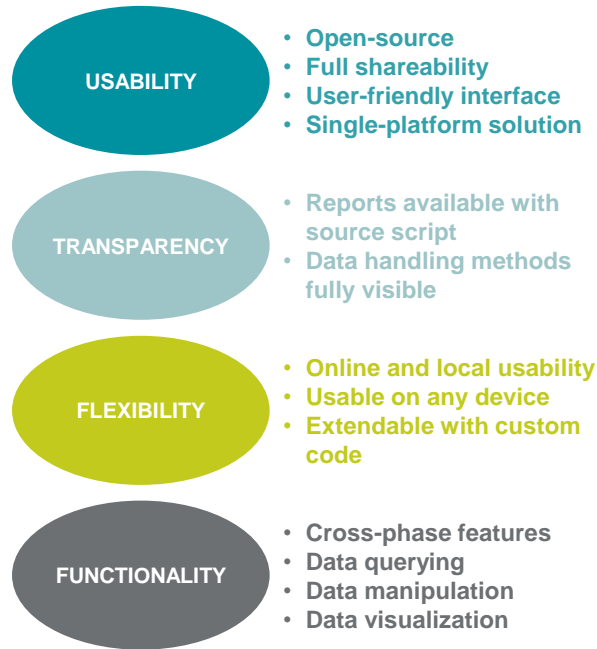


NGFS Data Engagement and Transparency (EnTry) Tool

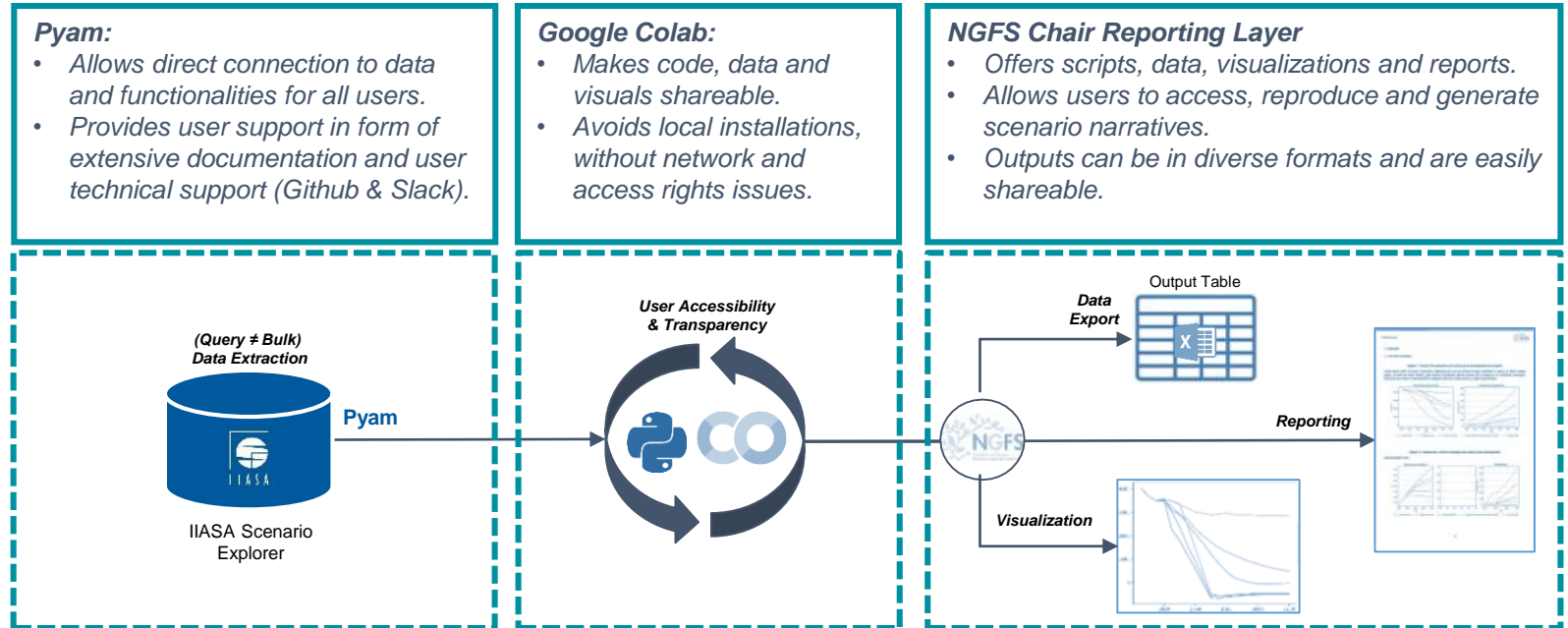
NGFS Data EnTry Tool

The NGFS Data Engagement and Transparency (EnTry) Tool is a new code-based data handling toolkit that supports users from data extraction to visualization within one platform.

Key Features



Components



NGFS Data EnTry Tool

The NGFS Data EnTry Tool allows users to build their own scripts to analyse the scenario data starting from pre-defined templates. The tool includes several scripts with examples to showcase its features and easy ways to attain and present the data of interest.

Current Scripts

- [Demo of all basic functionalities](#)
→ Gives a tour through the functionalities of the tool.
- [Quick Query Tool](#) & [Parameter Guide](#)
→ Provides an easy ad hoc way to query and download data across models, scenarios and phases, as well as plot in NGFS style.
- [Quick Map Tool](#)
→ Provides an easy ad hoc way to produce maps based on available country-level data across models, scenarios and phases.
- [Report Template](#)
→ Template to create NGFS-themed reports with plots and descriptions.

The **NGFS Data EnTry Tool** is available on the NGFS scenario portal under [Data & Resources](#). Additional scripts are provided within publication documents to provide full transparency of the presented visuals and the underlying data.

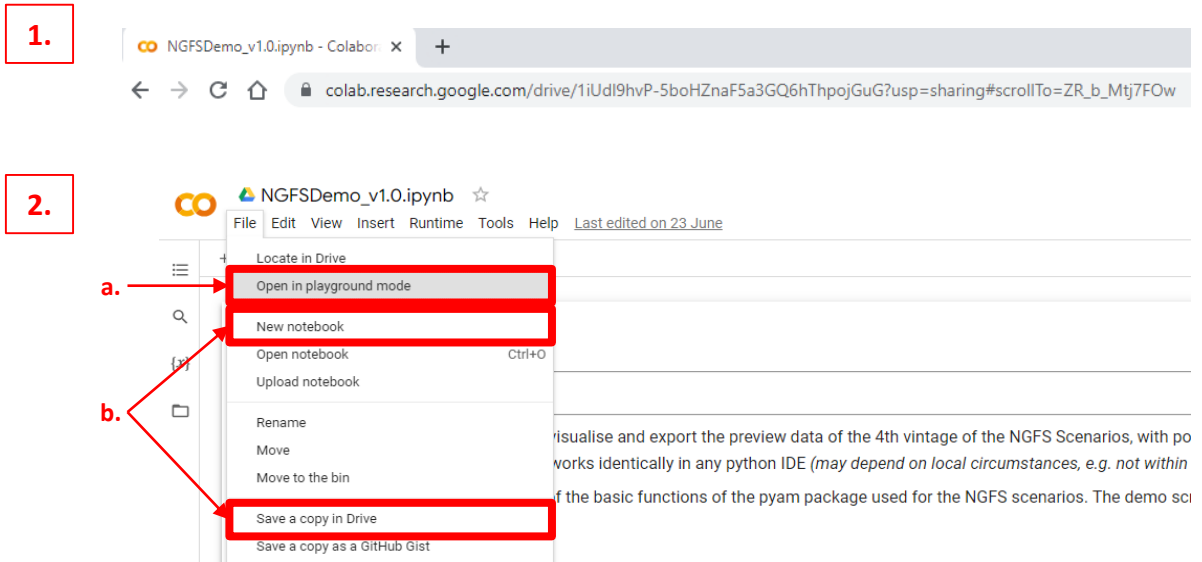
First steps with EnTry (1)

The provided scripts are intended as templates to be configured by users depending on their needs. To facilitate first steps and to run the provided scripts, follow the subsequent step-by-step guidance.

1. Open one of the scripts in your browser and log in to your Google account. (You will be only able to run (not view) the scripts if logged-in)

2. As the script is view-only, set the correct mode to make changes to the script. Either:

- a) Continue in the default 'playground mode' to amend and execute the code as well as exporting outputs without saving changes. This mode is set by default when opening the view-only scripts.
- b) If changes shall be saved, save a copy of the entire script or create a new empty notebook and copy only the desired lines of code.



First steps with EnTry (2)


3. To set-up the connection, run the initialization cells of the respective script.

4. Start querying, plotting and analyzing. E.g:

- The [EnTry Demo Script](#) will take you through the basic functionalities.
- The [Quick Query tool](#) provides an interface to query data without coding, but can be extended as preferred.

3. ▶ Initialisation

To start your connection, press the play button below and run the initialisation code. (The loading can take up to one minute.)

→  2 cells hidden

4. Demo

→ **B.** Data Querying and inspection

[] 8 cells hidden

▶ C. Visualisation

[] 18 cells hidden

▶ D. Data Export


[] 9 cells hidden

Quick Query

· NiGEM + Physical Risk (Climate Analytics)

ATTENTION: The tool will throw error messages if the combination of parameters is not valid. Keep in mind, most NiGEM variables will not work for aggregate region parameters, but on country level. Also, keep in mind some variables are not available for some scenarios by definition e.g. transition risks are not included in current policies. The full set of variables and their data is available in the IIASA scenario explorer.

To check what variables or regions are available in which phase or model and navigate the data dimensions, refer to this [parameter guide](#).

→  Show code

Quick Query - NiGEM data.
Select the parameters of interest.
To select multiple parameters, hold your ctrl key while selecting parameters.
To start the query and plot generation, press start.
To reset the query and generated outputs, press reset.

| | | | | | | | |
|------------|--|-------------|---|--------|--|------------|----------------------|
| NGFS phase | ngfs_phase_3 ngfs_phase_4_preview | NiGEM input | ICAM MESSAGE REMIND Climate Analytics (acute pl | Region | World Africa Argentina Asia Australia Austria | Year up to | 2030 2050 2100 |
| Scenario | Current Policies Fragmented World Nationally Determined Contributions (NDCs) Divergent Net Zero Delayed transition Below 2°C Net Zero 2050 Baseline | Variable | Central bank intervention rate (policy interest rate) - % Central bank intervention rate (policy interest rate) - % (chronic) Central bank intervention rate (policy interest rate) - % (combined) Central bank intervention rate (policy interest rate) - % (transition) Coal price: US\$ per barrel (equiv) Coal price: US\$ per barrel (equiv)(chronic) Coal price: US\$ per barrel (equiv)(combined) Coal price: US\$ per barrel (equiv)(transition) Consumption (private)(chronic) Consumption (private)(chronic) | | | | |

→ Start query and plot Reset

- Detailed instructions including support functions can be found directly in the scripts.
- For the selection of variables, we recommend using the Documentation in the [NGFS IIASA scenario explorer](#) as well as the [EnTry Parameter Guide](#) to identify parameter names and possible combinations.

EnTry Support Functions

The NGFS Data EnTry Tool leverages on the functionality provided by the IIASA open-source python package Pyam. It provides several user support functions.

In case of questions regarding the functionalities of the [Pyam package](#), please refer to the following platforms.

- [Pyam Documentation](#)
→ Technical documentation on functions and features included in the pyam package
- [Slack](#)
→ Slack channel discussing issues with the package
- [GitHub](#)
→ Developer supported GitHub forum on issues with the package

For feedback on the [NGFS EnTry](#) scripts and their application, please participate in our [standing user survey](#).

IMF Climate Dashboard

IMF Climate Dashboard

The [IMF's Climate Dashboard](#) is an international statistical initiative to address the growing need for climate-related data used in macroeconomic and financial stability analysis.

IMF | CLIMATE CHANGE DASHBOARD

INDICATORS | COUNTRIES | ACCESS DATA | RELEASES | LEARN MORE

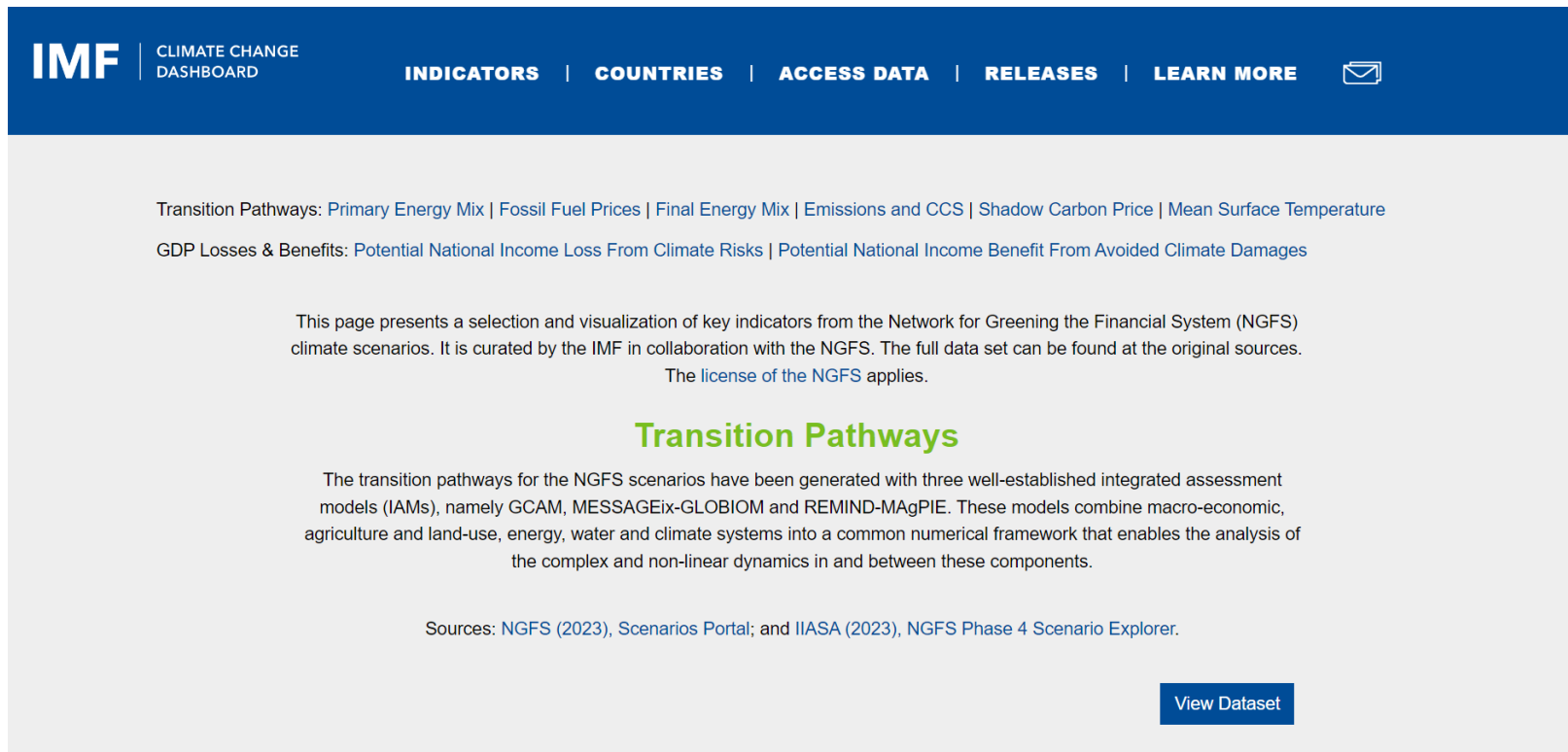
Climate Change Indicators Dashboard

A statistical tool linking climate considerations and global economic indicators

- Economic Activity Indicators**
 - Greenhouse Gas Emissions
 - National Inventories and Targets
 - CO₂ Emissions, Intensities and Multipliers
 - Energy Transition
- Cross Border Indicators**
 - Trade-related
 - Direct Investment-related
- Financial and Risk Indicators**
 - Financial
 - Physical and Transition Risks
 - Forward-Looking Risks
- Government Policy Indicators**
 - Environmental Taxes
 - Environmental Protection Expenditures
 - Fossil Fuel Subsidies
- Climate Change Data**
 - Surface Temperature Change
 - Atmospheric CO₂ Concentrations
 - Change in Mean Sea Levels
 - Forest and Carbon
 - Land Cover Accounts
- NGFS Indicators *NEW***
 - Transition Pathways
 - GDP Losses & Benefits

IMF Climate Dashboard

Within the IMF's Climate Dashboard, a dedicated [NGFS dashboard](#) provides a first overview of NGFS scenario outputs. It allows users to identify, visualize and compare key indicators.



The screenshot shows the IMF Climate Change Dashboard interface. The top navigation bar includes the IMF logo, 'CLIMATE CHANGE DASHBOARD', and links for 'INDICATORS', 'COUNTRIES', 'ACCESS DATA', 'RELEASES', and 'LEARN MORE'. Below the navigation, there are two main sections: 'Transition Pathways' and 'GDP Losses & Benefits'. The 'Transition Pathways' section includes a list of indicators: Primary Energy Mix, Fossil Fuel Prices, Final Energy Mix, Emissions and CCS, Shadow Carbon Price, and Mean Surface Temperature. The 'GDP Losses & Benefits' section includes: Potential National Income Loss From Climate Risks and Potential National Income Benefit From Avoided Climate Damages. A paragraph explains that the page presents a selection and visualization of key indicators from the Network for Greening the Financial System (NGFS) climate scenarios, curated by the IMF in collaboration with the NGFS. It also mentions that the full data set can be found at the original sources and that the license of the NGFS applies. A green heading 'Transition Pathways' is followed by a paragraph explaining that the transition pathways for the NGFS scenarios have been generated with three well-established integrated assessment models (IAMs), namely GCAM, MESSAGEix-GLOBIOM and REMIND-MAgPIE. These models combine macro-economic, agriculture and land-use, energy, water and climate systems into a common numerical framework that enables the analysis of the complex and non-linear dynamics in and between these components. At the bottom, sources are listed: NGFS (2023), Scenarios Portal; and IIASA (2023), NGFS Phase 4 Scenario Explorer. A 'View Dataset' button is located in the bottom right corner.

IMF | CLIMATE CHANGE DASHBOARD

INDICATORS | COUNTRIES | ACCESS DATA | RELEASES | LEARN MORE

Transition Pathways: [Primary Energy Mix](#) | [Fossil Fuel Prices](#) | [Final Energy Mix](#) | [Emissions and CCS](#) | [Shadow Carbon Price](#) | [Mean Surface Temperature](#)

GDP Losses & Benefits: [Potential National Income Loss From Climate Risks](#) | [Potential National Income Benefit From Avoided Climate Damages](#)

This page presents a selection and visualization of key indicators from the Network for Greening the Financial System (NGFS) climate scenarios. It is curated by the IMF in collaboration with the NGFS. The full data set can be found at the original sources.
The license of the NGFS applies.

Transition Pathways

The transition pathways for the NGFS scenarios have been generated with three well-established integrated assessment models (IAMs), namely GCAM, MESSAGEix-GLOBIOM and REMIND-MAgPIE. These models combine macro-economic, agriculture and land-use, energy, water and climate systems into a common numerical framework that enables the analysis of the complex and non-linear dynamics in and between these components.

Sources: [NGFS \(2023\), Scenarios Portal](#); and [IIASA \(2023\), NGFS Phase 4 Scenario Explorer](#).

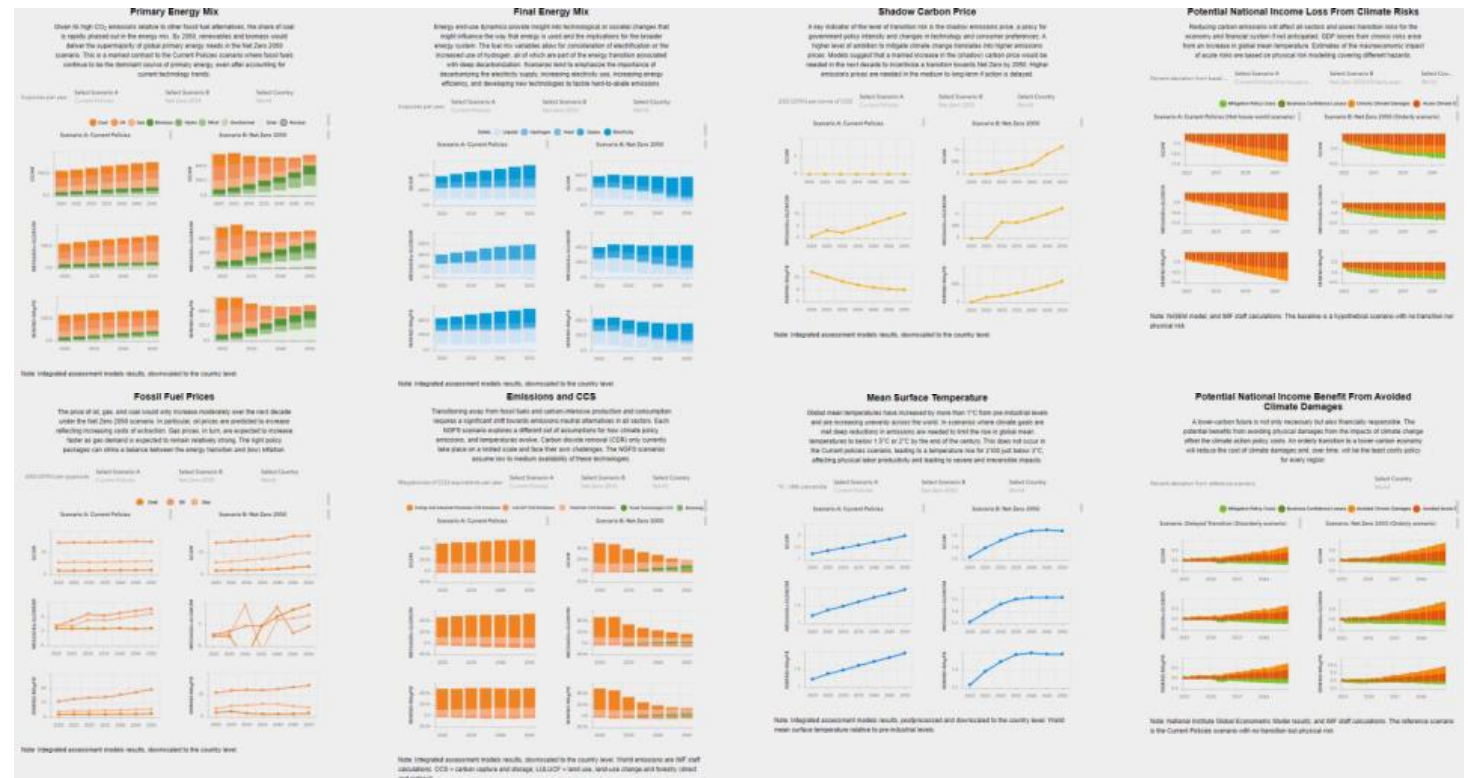
[View Dataset](#)

IMF Climate Dashboard: First steps

The NGFS indicator section runs you through the principal energy transition and climate indicators along some explanatory descriptions – all on one webpage.

The discussed indicators include

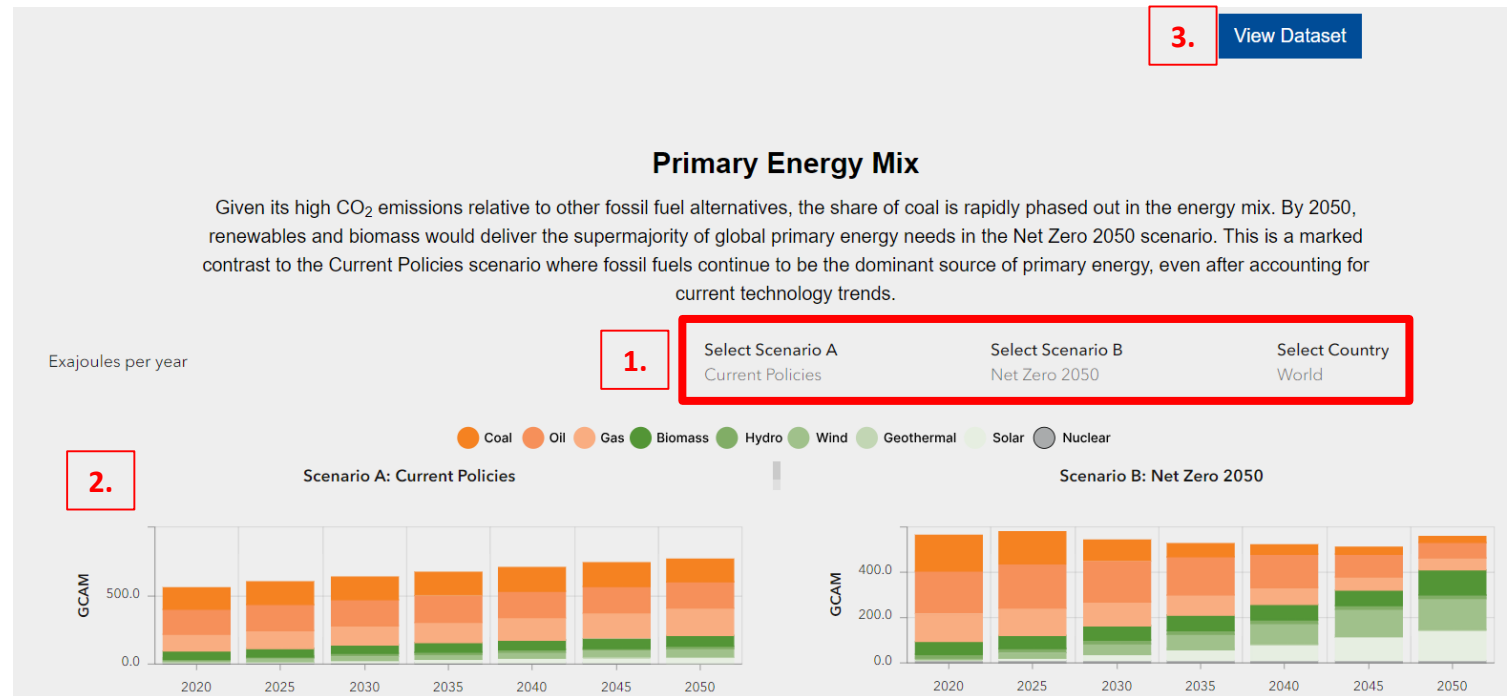
- Energy Mix,
- Fuel Prices,
- Emissions and CCS,
- (Shadow) Carbon Price,
- Mean Surface Temperature from the IAMs; and
- Potential National Income Loss,
- Potential National Income Benefit from NiGEM.



IMF Climate Dashboard: First steps

The IMF Climate Dashboard lets you explore and compare NGFS scenario data, but also export the selected time series data.

1. Per indicator, start by selecting the region as well as scenarios to be compared.
2. As a result, the dashboard will return a matrix of plots displaying the indicator for selected scenarios by all three input IAM.
3. The portal offers an option to view the time series data online. Alternatively, there's the option for downloading the queried data.



Additional Resources

Additional Resources – Questions

Any questions about the NGFS scenarios?

- You can check out our [FAQ page](#)
- If your questions are not answered, you can submit them to our [NGFS Q&A portal](#) and we will do our best to answer them.

NGFS Scenarios Q&A

Last name*

Please enter your last name

First name*

Please enter your first name

Institution*

Please enter the name of your institution

Email*

Please enter your email

Question*

Please enter your question

Attached image

Choose File No file chosen

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Allowed file types: jpg jpeg png