









Climate Change and Air Quality

Tracking & Evaluation Portal

06 August 2019

Kimberly

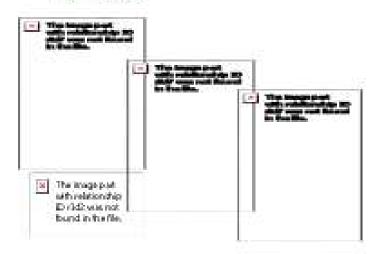




South Africa's Climate Change Monitoring & Evaluation System Policies and Objectives

Policy Frameworks

- National Development Plan Vision 2030
- National Climate Change Response Policy
- National Climate Change Response Monitoring and Evaluation System Framework

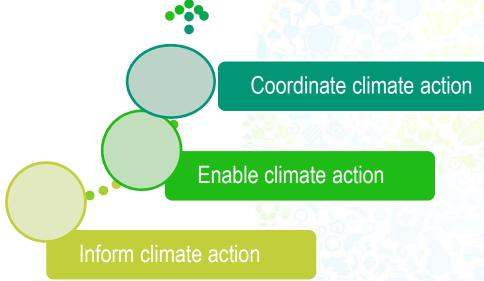




Supporting South Africa's Transition

- An increasingly mature national regulatory framework and constituent elements
 - Dependent on the timely provision of and access to good quality data
 - Requires efficient coordination and management of relevant data and communication
 - Places more responsibility on key stakeholders to play their part in the national climate change response

 Equally places more responsibility on regulators to provide the necessary tools and guidance that facilitate action





Objective of the portal

"facilitates South Africa's initiative of tracking the extent to which it is transitioning to a lower-carbon and climate-resilient society."

- Development and implementation of web-based M&E Portal
- Data gathering and system seeding
- Training and support



Project Aim

"To implement and roll-out a web-based climate change response M&E system platform that facilitates South Africa's initiative of tracking the extent to which it is transitioning to a lower-carbon and climate-resilient society."

- Development and implementation of web-based M&E Portal
- Data gathering and system seeding
- Training and support



Tracking and Evaluation Portal: Contains structured information on details of actions, indicators, impacts, related challenges, targets, wider impacts, investments and constraints. Summarises data and provide analysis of information



South Africa's Climate Tracking and Evaluation (T&E) Portal

- Details actions, impacts and related challenges and investments
- Means of collating data from different sources, distilling, analysing and summarising data
- The portal is the data visualisation of the status of South Africa's climate response



System Build

Cloud based system built in the NCCIS: **Tracking and evaluation System (T&E)**

- T&E System
- Data Visualisation and public facing website
- Automatic outputs





System Build

- Administration this section will contain information on the M&E system including individual stakeholders, organisations, datasets, guidance and tools and QA/QC activities.
- Climate Actions this section will provide linked lists containing information and data on mitigation and adaptation actions, following Aether's Transparency in Air and Climate Action framework.
- Summary this section will summarise key information from the site, presenting this through data visualisations. It will provide insight into mitigation and adaptation action progress and ambition.



Climate Action – MRV system concepts

Challenges

To understand risks, vulnerabilities, GHG trends and projections

Wider impacts

Linking actions to national strategies and SDGs

Actions

Information on mitigation and adaptation actions

Constrainsts and Gaps

What is preventing action from being taken?

Indicators

Quantitative information for tracking all elements

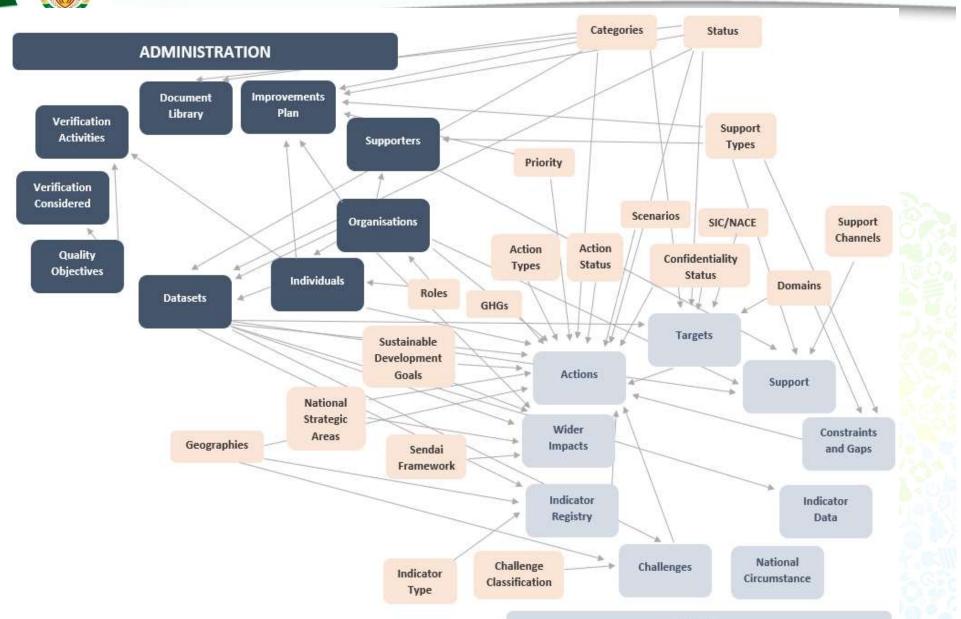
Investment

Tracking support for investments, capacity and technology

Targets

To record national targets and international obligations

:System Build





Portal Tour

Office 365

Search bar to find specific elements of the system







Home

Administration

∨ Climate Actions

∨ Quick Edit Lists

∨ Lookup Lists

Recycle bin

Edit

Tracking and Evaluation Fortal

+ New > Send by email Page details Search this site Published 3/15/2019 Simple navigation drop down Help and Guidance South Africa DEA Tracking and Evaluation Portal **Basic information** on the portal The National Climate Change Response Policy (NCCRP) (DEA 2011) and the National Development Plan (NDP) (NPC 2011) highlight the importance of understanding South Africa's progress in moving towards the climate resilient and lower carbon economy and society. Both policies call for setting up a national tracking,

evaluation and reporting system for climate change information.

Transparency and reporting of progress in responding to climate change are at the heart of the Paris Agreement and as such South Africa, along with other countries will need to enhance reporting on climate actions and their effects, among other things. South Africa need to strengthen national institutional and technical capacities to meet the enhanced transparency requirements of the Paris Agreement. South Africa submitted its Nationally Determined Contribution to the UNFCCC in September 2015.

This Tracking and Evaluation system records adaptation and mitigation actions alongside associated information and data such as challenges, indicators and wider impacts.

Using the

Use the me

Guidance on navigating the portal and on site contents.

down menus. The site is arranged into 5 sections:

Page Layout – example



Search this site

QA/QC

∧ Climate Actions

Targets Indicators

Actions

Support

Wider Impacts

Help and Guidance

∨ Quick Edit Lists

∨ Lookup Lists

Recycle bin

Edit

Challenges

Tracking and Evaluation Portal

page + New ∨ ☑ Send by email ☑ Promote ፟ Page details Published 2/23/2019 // Edit Datasets and Docu... Basic information on what is contained in this section. Links to relevant lookup tables. Improvements Plan Basic instructions on how to add new items can all be found here Wider Impacts Wider impacts are the additional impacts (positive and negative) that a climate action can have on other national strategies (e.g., economic, social and environmental) and on the Sustainable Development Goals. The analysis of these wider impacts can strengthen the justification for the implementation of a climate action. It can also reveal potential areas of conflict where caution should be taken. The wider impacts are subjectively classified from +3 strongly positive to -3 strongly negative. Constraints and Gaps Link to the underlying list relevant for the In the Wider Impacts list, actions are grouped by the strength of impact on either Sustainable Development Goals or National National Circumsta... section. To view the list and/or add a new item, please click here. Comments △ Like ☐ Comment ☐ Save for later

When you click on an page in the menu e.g. Wider Impacts you are taken to a summary

List View – example





Taskbar with options to enter a new item or export list

Multiple views available e.g. summary, my actions. These show different views of the data

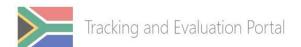
Share

O Search	+ New 🖉 Quick edit	Export to Excel of	Flow ✓				≡ Summary* \	v 7 0
Home Administration	Actions							
Climate Actions	ID ∨	Parent Action \vee	Action Title \vee	Objective V	Description \vee	Full Implementatio \vee	Start Date ∨	Estimated GH
Help and Guidance	2		The IRP and IEP make provision for increased contr	Directs the expansion of the electricity supply	Directs the expansion of the electricity supply over the long term.	2030/03/07	2010/03/07	111.97 MtCO2
Quick Edit Lists Lookup Lists				over the long term.	Integrated Resource Plan (IRP) 2010-2030 and Integrated Energy Plan (IEP) including South			
Recycle bin	3		National Solar Water Heating (SWH) Programme	Procure and install SWH systems throughout South Africa	This programme involves the installation of solar water heaters in residential dwellings. The programme started in 2010 as an Eskom rebate scheme. The initial target was 1 million solar water heaters by 2014. 400 000 units	2030/03/07	2010/03/07	
	4		The South African Coal Roadmap	Identifying possible development challenges that may impact on the coal industry, particularly in relation to	The South African Coal Roadmap was developed to explore the short, medium and long-term activities and interventions needed to support the coal industry in South Africa (Fossil Fuel Foundation and			
	5		National Organic Waste Composting Strategy	Multiple fide each according arden waste should be incorporated into municipal planning and	een developed to promote		2014/01/01	Emission redu could not be
Return to classic	6	1	Private Sector Energy Efficiency (PSEE) Project	Improve energy efficiency in commercial	The National Business Institute (NBI) implemented the PSFF project, which	2015/11/30	2013/12/01	0.77 MtCO2e

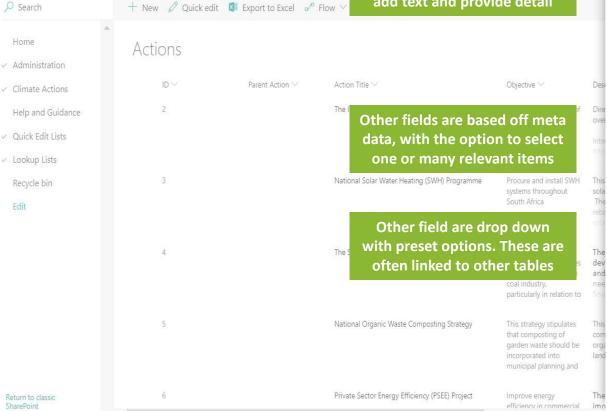
Data Entry Forms

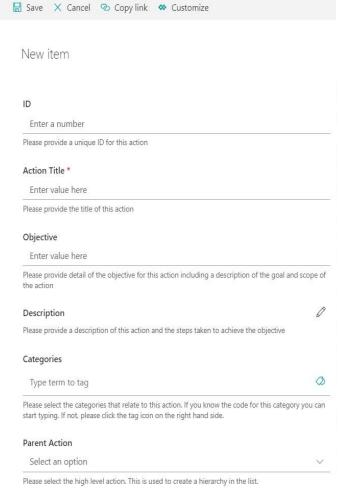
Easy to use forms for data entry

Form includes instructions to guide the user in what to enter for each field



Some fields allow the user to add text and provide detail







T&E System Outputs

Data visualisation and the public facing webpage

Automatically generated output tables

• Export lists function

Overview mitigation actions

Summary

Actions

Support

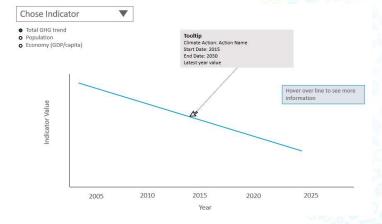
ndicators

South Africa's Mitigation Actions

Introductory text



Indicators and Progress



Climate Action and Status

Summary Actions Support Indicators

This data visualisation allows to investigate the number of climate actions in place in South Africa according to their action status, SIC/NACE category, in addition to revealing the cost of implanting those actions.



Action Priority

Summary Actions Support Indicators

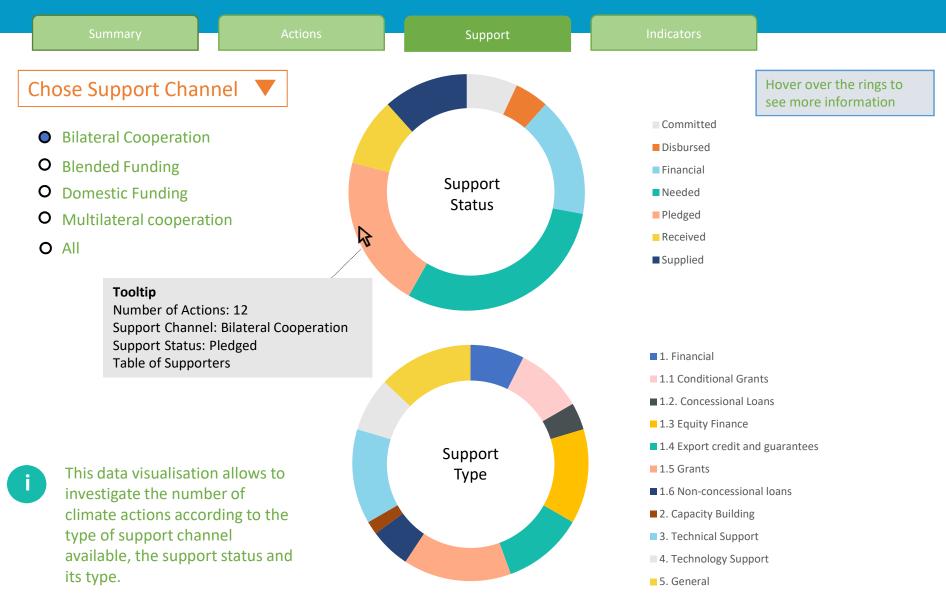
0

A table is provided that shows the current and planned mitigation actions for South Africa. Users will be able to view these actions based on priority level. It will summarise the GHG reduction potential of the climate action, in addition to the scenario, timeframe and providing a description.

Select a priority level ▼ Top O High O Medium

Action	Description	GHG Reduction	Timeframe	Cost	Scenario	Priority
Introducing of BAT into existing and newly built energy/industrial installations	Construction of a new thermal power plant and modernisation of current technological processes	Power plant: Annual decrease of 375 Gg CO2 Modernisation: Annual decrease of at least 500 Gg CO2	Power plant: By the end of 2023 Modernisation: 2020	Power plant: 370 million euros Modernisation: 48- 350 million euros	WAM	Тор
Improvement of energy performance in buildings	Reduction in energy consumption of new buildings, refurbishment of domestic and public buildings	Not yet available	2020	20-50 euros per m2 for insulation	WEM	Medium

Support Channels

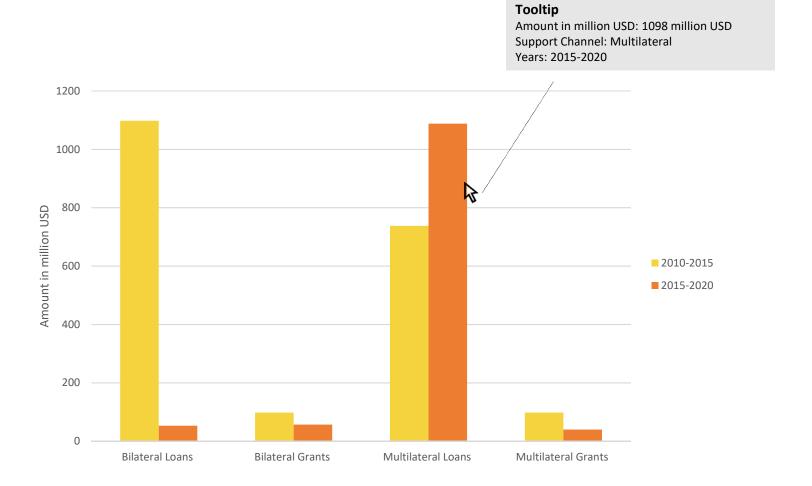


Support Received

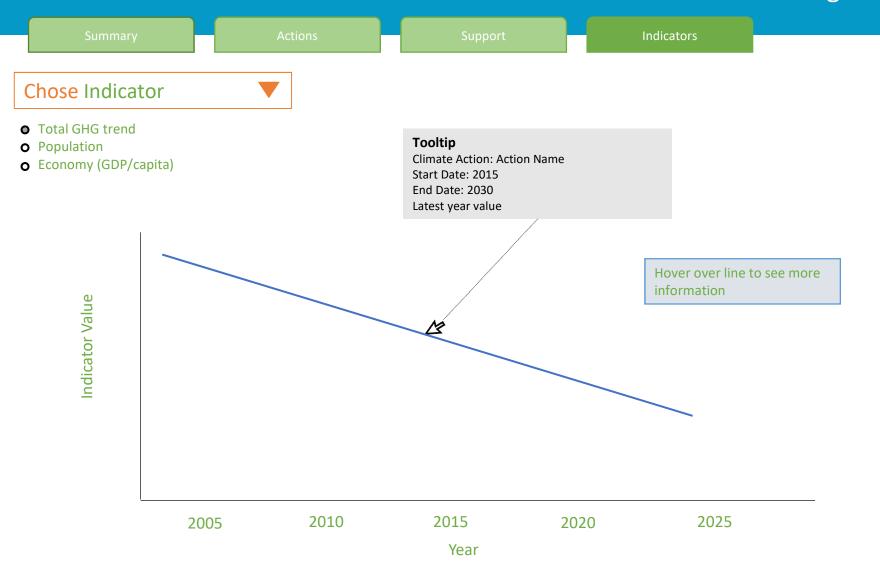
Summary Actions Support Indicators



This data visualisation allows the support received to be visualised for the Biennial Update report.



Indicators and Progress



i This data visualisation allows to investigate the progress of indicators

Automatic Outputs



- Two output tables created;
- BUR Style Action summary table
- Annex style Detailed Action Table
- Java script based coding based on live snapshot of information held within the system
- Fully custom build and therefore customisable



Action Summary

BROWSE PAGE

Updated Pages





¥ 0



ClimateActionsOutput

ActionSummary CAML-test LookuplssueExample

MMD Example

Administration
Organisations

Home

Individuals Supporters

Datasets and Documents

Improvements Plan

QA/QC

Climate Actions Challenges

> Targets Indicators

Actions

Support

electricity

liquid fuels

production.

Water Heating

1.1.3.2. Solar water National Solar

generation and

Action Type	Action Title	Objective	Description	Status of Implementation	Progress	Implementation Lead Organisation	Implementation Date	A
1.1 Renewable energy 1.2.1 Nuclear power 1.2.2 Alternative fuels	The IRP and IEP make provision for increased contribution from renewable and nuclear energy, for	했다. 바다 하는 것이 되었다.	Directs the expansion of the electricity supply over the long term.	lookup	null	lookup	Wed Mar 06 2030 22:00:00 GMT+0000 (Greenwich Mean Time)	CH CC N2

null

Integrated

Resource Plan (IRP)

2010-2030 and

Integrated Energy

Plan (IEP) including South African Wind

Energy Programme

Power Producers

(IPP) Programme.

and the Independent

Procure and install This programme lookup

(SWH) Programme throughout South installation of solar

Africa

involves the

residential

dwellings.

water heaters in

The programme started in 2010 as

an Eskom rebate

scheme. The initial target was 1

million solar water

Retrievable directly from the T&E System live updates

Search this site

tation	Activities Covered	Emission Reduction(MtCO2e		
6 2030	CH4	111.97 MtCO2e till		
	CO2	2017		
	NOO			

Summary information on each action as given in the system at the point of query

lookup Wed Mar 06 2030 CO2 null 22:00:00

GMT+0000 (Greenwich Mean Time)

Ready to be copied straight into word

Action Detailed

BROWSE PAG

ActionSummary

CAML-test

LookuplssueExample

MMD Example

Home

Administration

Organisations

Individuals

Supporters

Datasets and Documents

QA/QC

Improvements Plan

Climate Actions

Challenges

Targets

Indicators

Actions

Support

Wider Impacts

Constraints and Gaps

National Circumstances

Help and Guidance

Quick Edit Lists

Administration

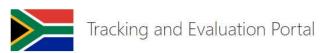
Action Details						
Action Title Related Targets	The IRP and IEP make provision for electricity generation and liquid fu		ution from renewable	and nuclear energy, for	Action ID 2	
Related Challenges	GHG emission increasing trends (Te	st);			Datain all a dinast	ha faran dha TOE Cartana
Objective	Directs the expansion of the electric	city supply over the	long term.		Retrievable directi	ly from the T&E System –
Description	Directs the expansion of the electricity supply over the long term.			live updates		
	Integrated Resource Plan (IRP) 2010 Power Producers (IPP) Programme.)-2030 and Integrat	ed Energy Plan (IEP) ind	cluding South African Wind Ene	ergy Programme and the Independer	nt
Geography	National;					1991
Estimated GHG	111.97 MtCO2e till 2017				Detailed informa	ation – table for each actio
Reduction Action Type	1.1 Renewable energy,1.2.1 Nuclear power,1.2.2 Alternative fuels	Adaptation Priority	Not Applicable	Mitigation Priority		ges, wider impacts, suppor nd indicators.
Status of Implementation	1	Start Date	Sat Mar 06 2010 22:00 GMT+0000 (Greenwic		WCG Migi GO 2000 22.00.00	
Sector Category	1.A.1: Energy Industries;	Institution Responsible	10;	Lead Stakehold	er 1;	
Activities Covered	CH4; CO2; N2O;	Mitigation Scenario	Avoided GHG	Estimated Actio Costs	TBD	
Constraint IDs		Constraint Names		Constraint Type	25	137.21.02
Wider Impacts	Co-Benefits		Pot	tential Conflicts		
Related SDGs	CO BETTERES		roc	chadi connecs		
Related National Strategies						
Other impacts	The programme started in 2010 as a installed under the rebate program un-electrified homes, setting a new	me. In 2015 the Do	E took it over and chan	ged the focus to providing sola	r water heaters to state-subsidised a	
Support					Ready to be copied	d straight into word
Name of funder	Status Type of instrument	Type of funding	Recipient Am	ount Year	Data Source	
Indicators						
Related	Multiple lookup values					

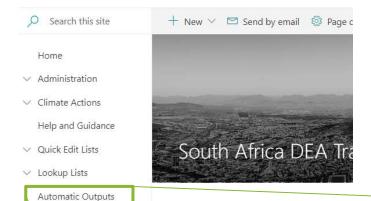
Retrieving automatic outputs



Recycle bin

Edi

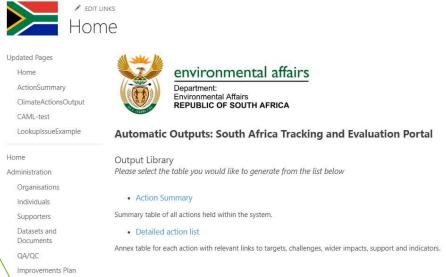




The wiki library (visible on the navigation pane) stores the links to retrieve automatic outputs.

- To retrieve a table click on its name in the list
- Wait for the table to load

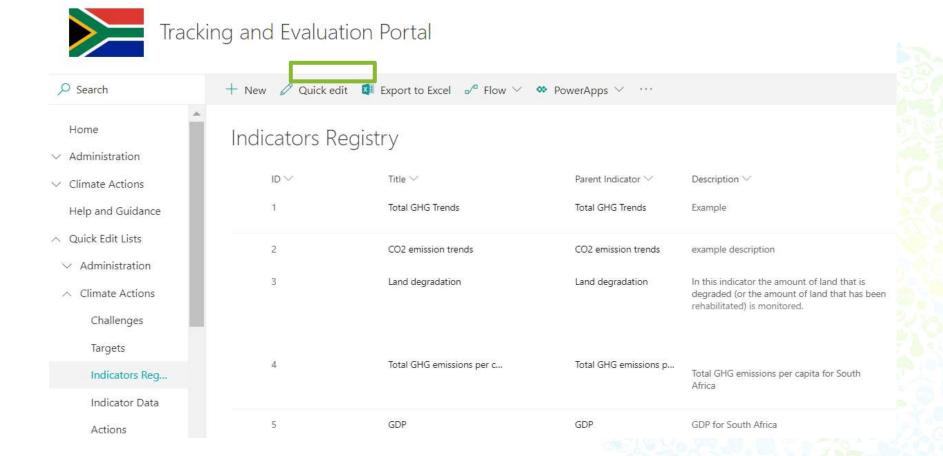
o desired report





List export

Users can export any list from the system directly to excel



List Views



 With views, you can use filters and styles to show, in different ways, the information available in your lists and libraries

- SharePoint views are a way of customising and organising list content
- By default an 'all item' view is activated in every list

List Views ■ Summary* ∨ ❖ PowerApps ➤ Action Coverage New lists can be created Organisations and Individuals Priority and Status • Example: Action list P make provision f Related Information and Wider Impacts Tracking and Evaluation Portal Simple Overview of Actions ✓ Summary + New 🖉 Quick edit 💶 Export to Excel 🞤 Flow ∨ 🐡 PowerApps ∨ Action Coverage Water Heating (SV Actions Save view as Organisations and Parent Action > Action Title > Priority and Status Edit current view The IRP and IEP make provision Related Information Format current view Simple Overview of

✓ Summary

Salve view as

Edit current view

Format current view

National Solar Water Heating (SV

The South African Coal Roadmap

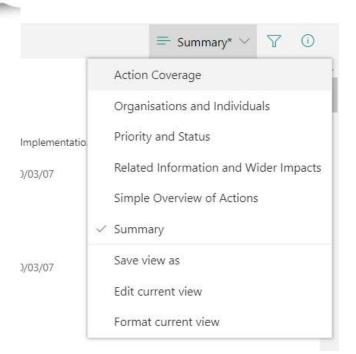
can Coal Roadman

Identifying possible

Identifying possible

Create a view



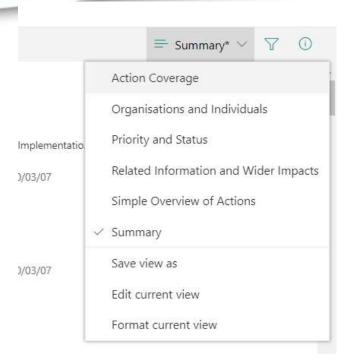


- To create a new view for your SharePoint list or library you need to click on « Create View »
- You can also choose to make your view Public or Private;

When you decide to make it public, everyone that goes on the list will see it. If you make it private, you'll be the only one who sees this view when you look at the list or library.



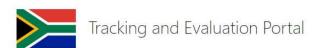
Modify a view

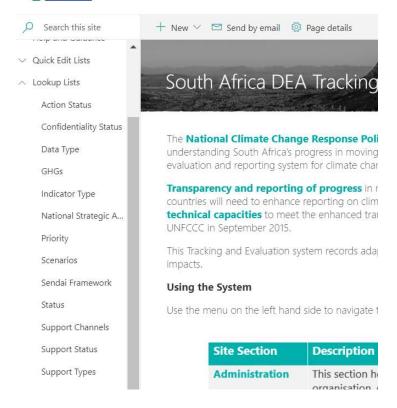


 You can modify the view you're currently using by clicking on "Modify View". At this point your original settings will appear, and you'll be able to change them.

Lookup lists and nomenclatures







- Run behind the main system lists.
- Define certain parameters to ensure they are consistent across the system.
- If you cannot find the required option when populating a list, check the relevant lookup table and add/request a new item.
- Longer lookup lists are stored in the back system of the portal (managed metadata) and these can only be edited by the site administrator





