



sanedi

South African National Energy
Development Institute (SOCI) Ltd.



The Energy Efficiency Tax Online System – a practical demonstration





www.saneditax.org.za

Ravi Govender
SANEDI

ENERGY INNOVATION FOR LIFE

Overview



-  Cloud Based System
-  Access Based System
-  Workflowed System
-  URL <https://sanelitax.org.za>



Getting Started



System Requirements

– Browsers

- Firefox, (recommended)
- Safari, (recommended)
- Chrome, (recommended)
- Internet Explorer (not recommended)
- Adobe Acrobat PDF reader

 URL <https://saneditax.org.za>



Navigation to 12L from SANEDI Website



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Advanced Fossil Fuel

Welcome

With global energy demands on the increase, coupled with the depletion of our natural resources and the negative impact of fossil-based energy sources on the environment, the issues of clean, sustainable energy and the importance thereof in economic development and global wellbeing have become a pressing reality world-wide. Energy innovation and the efficient use of energy are two key components of mitigating these challenges. It is for this reason the South African National Energy Development Institute (SANEDI) was established.

[Read more...](#)

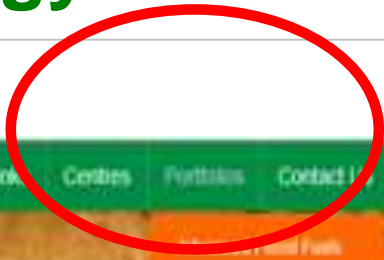
Search

News Feed

[Invitation to 12L energy tax roadshows...](#)
25 February 2014 - The Green Business Guide
The South African Government through the Department of Energy and Nati...

[CREATIVITY MEET TECHNOLOGY IN DESIGN COMPETITION...](#)
25 February 2014 - Bloemnuus

Portfolios – Energy Efficiency - Overview

A screenshot of the SANEDI website's 'Energy Efficiency' portfolio page. The page features a green header with a navigation menu. The main content area is divided into several sections: a large banner for 'Advanced Fossil Fuel', a 'Welcome' section with introductory text, and a 'News Feed' with recent updates. A red circle highlights the 'Portfolios' menu item in the top navigation bar. The 'Energy Efficiency' dropdown menu is open, showing sub-items like 'Overview', 'Energy Efficiency Green Buildings', 'Energy Efficiency Hubs and Tips', 'Energy Efficiency Legislative and Policy', 'Energy Efficiency Projects', 'IGEE', and 'Contact Portfolio Manager'. The SANEDI logo and name are visible in the bottom left corner of the page content.

Home About Us News Procurement Activities Guidelines Centres **Portfolios** Contact Us

Advanced Fossil Fuel

Overview

Energy Efficiency

Energy Efficiency Green Buildings

Energy Efficiency Hubs and Tips

Energy Efficiency Legislative and Policy

Energy Efficiency Projects

IGEE

Contact Portfolio Manager

Welcome

With global energy demands on the increase, coupled with the depletion of natural resources and the negative impact of fossil-based energy on the environment, the issues of clean, sustainable energy and its role in economic development and global wellbeing have become a pressing reality world-wide. Energy innovation and the efficient use of energy are two key components of mitigating these challenges. It is for this reason the South African National Energy Development Institute (SANEDI) was established.

[Read more...](#)

News Feed

SANEDI announces tax incentive for energy-saving businesses...
30 January 2014 - 25degrees.net
The promulgation of the regulations on the allowance for energy-efficient...

New Levies for Piped Gas Industry...
27 January 2014 - Sabinet Law
Department of Energy The energy...

<http://www.sanedi.org.za/energy-efficiency-portfolio/>

Navigation to 12L from SANEDI Website



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sanedi
South African National Energy
Development Institute (SOC) Ltd.

Energy Efficiency

Please click on your EE area of interest

12L

Legislation
& Incentives

Energy Efficient
Buildings

ESCo/Cogeneration
Facilitator

GIS Maps

Hints &
Tips

Financing

Contact

Search

News Feed

Minister of Energy confirmed to speak at 2014 Africa Energy ...

13 February 2014 - Publicity Update
The Africa Energy Indaba is much more than an event; it is the platfor...

12L – Practical issues and concerns on the Tax law...

05 February 2014 - The Green Business Guide

The 12L regulation was promulgated in December 2013 and is currently "...

Navigation to 12L from SANEDI Website



The 12L regulation sets out the process for determining the quantum of energy efficiency savings, and the requirements for claiming the proposed tax deduction.

Section 12L incentives include all energy efficiency projects that reduce energy use and is claimable until 2020. It is important to note that the tax incentive is available for savings in all energy forms and not only electricity.

The expected tax relief would be a 45 cents deduction on taxable income per kilowatt hour of energy saved – subject to all the conditions in the 12L regulations being met.

The regulation for 12L sets out the process for determining the quantum of energy efficiency savings, and requirements for claiming the proposed tax deduction.

SANEDI will be running workshops across the country on the process. Dates for the workshop will be published shortly on this website.

[Link to the 12L online application Website](#)

There is a list of Frequently Asked Questions that have been compiled.

Please see below the attachment with the FAQs. Please read through this for more information on the process.

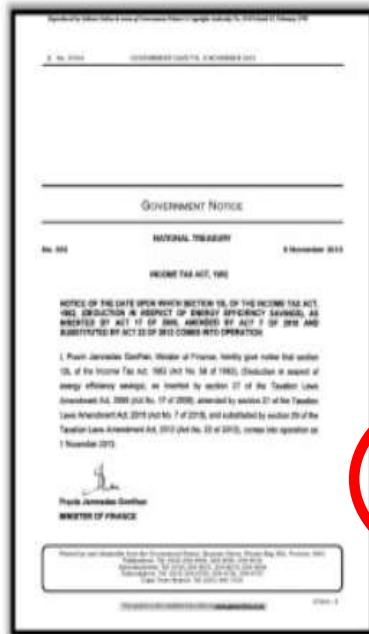
05 February 2014 - The Green Business Guide

The 12L regulation was promulgated in December 2013 and is currently "...

[Q&A with Andrew Gilder, Senior Associate in environmental la...](#)

30 January 2014 - 25degrees.net

Late last year, COP19 discussions were held in Poland regarding develo...



Blog

- + bigEE BAT
- + Renewable energy post2
- + Renewable Energy Article
- + Working for Energy Article
- + SANEDI's Mandela Day Celebrations

SANEDI Building Energy Consumption Feed

sanedi.org.za/wp-content/uploads/2013/12/Picture1.jpg

12L Homescreen



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News Board

Welcome to Tax Incentive Online System

6 Key Processes



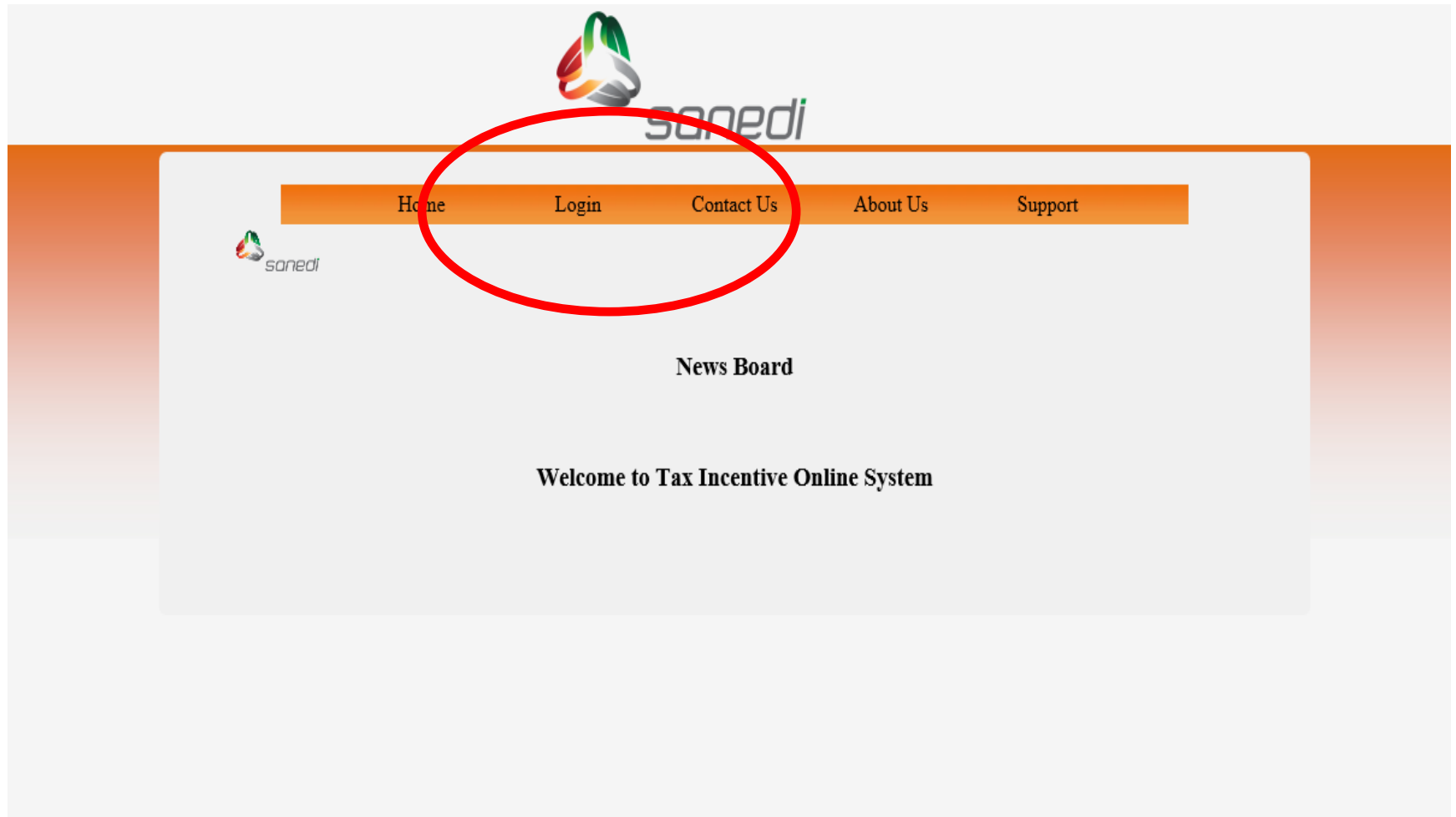
- 🌍 Registration Claimant
- 🌍 M&V Registration
- 🌍 Project Registration
- 🌍 Project Activation
- 🌍 Baseline Assessment
- 🌍 Project Assessment

Types of registrations required

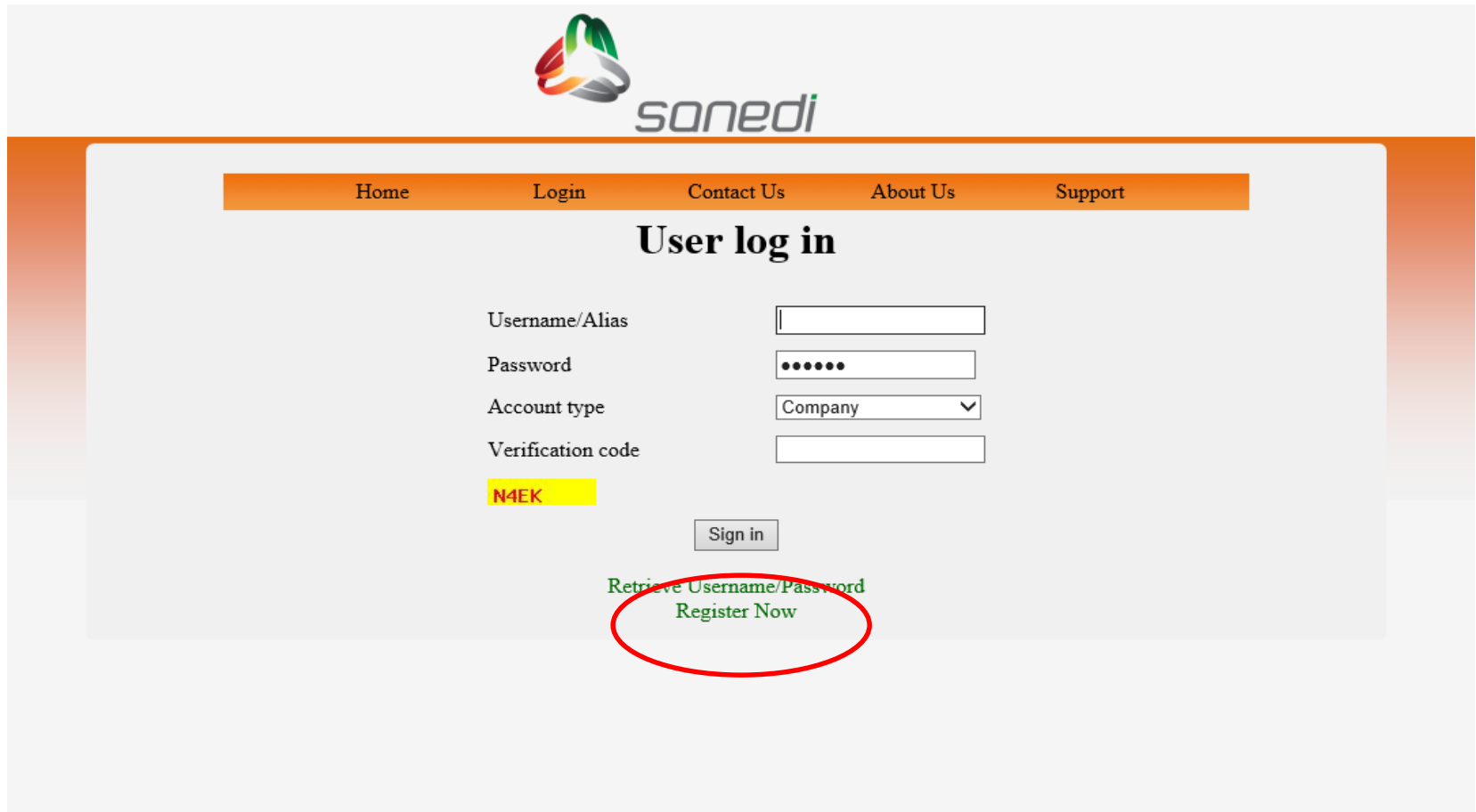


- 🌍 Company claimant
- 🌍 M&V inspection body
- 🌍 *Project developer – In the Pipeline*

12L Homescreen



User Login



The image shows a screenshot of the Sanedi website's user login page. At the top, there is a navigation bar with links for Home, Login, Contact Us, About Us, and Support. Below this is the main heading "User log in". The form contains four input fields: "Username/Alias", "Password" (masked with dots), "Account type" (a dropdown menu currently showing "Company"), and "Verification code". A yellow box highlights the text "N4EK" below the verification code field. A "Sign in" button is positioned below the form. At the bottom of the form, there are two links: "Retrieve Username/Password" and "Register Now". The "Register Now" link is circled in red.

You need to register to be a user on the system

User Registration



[Home](#)

[Login](#)

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Registration

Please choose the account type.

[Company Claimant](#)

[M&V inspection body](#)

User Registration – Company Claimant

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Company Claimant Registration

To register a company claimant account, please fill in the following registration form. The item with '*' cannot be blank.

*Company name

Postal address

Physical address

*Business type

Industrial

*SARS No.

*Company registration No.

*Contact person.

*Email

Tel.

Fax

Cellphone

Sector

Previous

Register

User Registration – M&V

[Home](#)[Login](#)[Contact Us](#)[About Us](#)[Support](#)

M&V inspection body Registration

To register a M&V inspection body account, please fill in the following registration form. The item with '*' cannot be blank.

*M&V inspection body name	<input type="text"/>
Postal address	<input type="text"/>
Physical address	<input type="text"/>
*SANAS No.	<input type="text"/>
*Contact person	<input type="text"/>
*Email	<input type="text"/>
Tel.	<input type="text"/>
Fax	<input type="text"/>
Cellphone	<input type="text"/>
*Technology scope (SANAS accredited)	<input type="text"/>
<input type="button" value="Previous"/> <input type="button" value="Register"/>	

Registrations Page



- 🌱 Items marked with “*” are mandatory
- 🌱 Click the “Register” button to redirect to the password setting page.
- 🌱 Input your password
- 🌱 An activation message will be sent to email provided. click the link in the message to activate.
- 🌱 Note you cannot log into your account before activating your account
- 🌱 If the activation message is not in the email inbox, please check your spam inbox.

Registration – M&V Body



- 🌍 To register as the M&V inspection body, you must upload the SANAS certificate.
- 🌍 Once submitted the system will send activation message to the registered email.
- 🌍 As the M&V inspection body, please wait the SANEDI administrator to approve your application.

Home Page After Login



- After user chooses the individual/company claimant from the account type list page, the user will be directed to the homepage of claimant.
- The homepage consists of six components:

- Register new project
- Claimant Profile
- Project list
- Change alias/password
- Help,
- Log out



Claimant Profile



- 🌐 Click “Claimant profile” to redirect to the claimant profile page.
- 🌐 Revise/Update the claimant details on the claimant profile page, and then click the “Update” button.

The screenshot shows a web application interface for updating a claimant profile. At the top, there is a navigation bar with links: Home, Login, Contact Us, About Us, and Support. Below this is a secondary navigation bar with links: Register new project, Claimant Profile, Project list, Change alias/password, Help, and Log out. The main heading is "Claimant profile". The form contains the following fields:

- *Full name:
- Postal address:
- Physical address:
- *Business type:
- *SARS No.:
- *Email:
- Tel. (work):
- Fax:
- Cellphone:
- *ID/Passport:

An "Update" button is located at the bottom right of the form.

Change Password



- 🌍 To change the alias, please revise the alias and input the old password into the following three input boxes.
- 🌍 To change the password, please input the old password into “Old password” input box, and input the new password into the following two input boxes.
- 🌍 Click the “Update” button to change alias/password

Change alias/password

Alias	<input type="text"/>
Old password	<input type="text"/>
New password	<input type="text"/>
Retype new password	<input type="text"/>

Help



- 🌐 To ask help from SANEDI administrators about general information. Choose the “General” option in the “Help Type” menu.
- 🌐 Choose the “Website” option of the “Help Type” menu for technical problems, using the online system.
- 🌐 Input the title and content of the help message, and click the “Issue” button.
- 🌐 The system will send the help message to the SANEDI/system administrators. The Sanedi Administrator will send response to claimant’s registered email.

Help

Help Type

Help Title

Help Content

Eligibility Checklist and Data Gathering



Greenfields

Greenfields

Greenfields

Greenfields

Greenfields

Greenfields

Energy conservation

Energy conservation

Modify equipment

Modify equipment

Modify equipment

Modify equipment

Modify equipment

Modify equipment

Modify equipment

Modify equipment

CHP

CHP

CHP

CHP

CPP

CPP

CPP

CPP

CPP

CPP

Select the options that best fits your project:	
1	The project is improving the energy conversion efficiency of the activity
2	The project is a greenfield project with a better energy conversion efficiency, relevant sector or technology usually used
3	The project is an energy conservation project that does not improve the energy efficiency of the same type of activity output and boundary conditions as usual
4	The project uses underutilised energy generated during an industrial process
5	Supplied by a captive power plant (CPP) as defined under 33

1	Process or technology converts a renewable energy source (RES) to?
2	Renewable energy source (RES)
	Process/technology:
3	Does the project reduce the amount of waste energy from activity 1?
4	Which type of waste energy is generated from activity 1 :
5	Which energy carrier is generated by the recovered waste heat?
6	Is the project saving energy by conservation through improved energy management without recovery of waste energy, or improving the energy efficiency of an activity?
7	Energy carrier saved:
8	Is the project replacing, or modifying any equipment, structure or process to improve the energy efficiency of the equipment, structure or process?
9	Is the present energy efficiency quantifiable and roughly known (___%)?
10	Estimation of energy efficiency (___%) after successful project implementation
11	Is the project a combined heat and power plant (CHP) as per 6(1) of 12L?
12	Is the energy input to the CHP a waste product or residual product?
13	The waste or residual product is NOT procured from outside?
14	Is the CHP considered a Greenfield project?
15	Does the project save electricity, or process heat, or electricity and process heat, supplied by a captive power plant (CPP) as defined under 12L?
16	Is the energy input to the CPP a renewable energy source as defined by 6(1) of 12L
17	Is the energy conversion efficiency of the CPP, larger 35%?
18	Is the project saving only electricity?
19	Is the project also improving the energy conversion efficiency of the CPP?
20	Is all of the useable energy output of the CPP used by the company generating it?

Project Registration Page

[Home](#)[Login](#)[Contact Us](#)[About Us](#)[Support](#)[Register new project](#)[Claimant Profile](#)[Project list](#)[Change alias/password](#)[Help](#)[Log out](#)

Project registration

Project title

Starting date

Type of tax incentive

Target energy saving for this tax incentive project (1000 kWh)

Investment for this tax incentive project (1000 Rand)

Useful life of project in years

Estimation of the kWh equivalent savings over the useful life

Does this project has concurrent claim? Yes No

Eligibility Checklist

Please choose the color coded category of your project: Green Blue Red Yellow Grey

Green - Greenfields



Starting date --

Type of tax incentive

Target energy saving for this tax incentive project (1000 kWh)

Investment for this tax incentive project (1000 Rand)

Useful life of project in years

Estimation of the kWh equivalent savings over the useful life

Does this project has concurrent claim? Yes No

Eligibility Checklist

Please choose the color coded category of your project: Green Blue Red Yellow Grey

Process or technology converts a renewable energy source (RES) to ?

RES: ?

Process/technology: ?

Does the project reduce the amount of waste energy from activity 1? Yes No

Which type of waste energy is generated from activity 1 : ?

Which energy carrier is generated by the recovered waste heat ?

Blue – Energy Conservation



Project registration

Project title

Starting date

Type of tax incentive

Target energy saving for this tax incentive project (1000 kWh)

Investment for this tax incentive project (1000 Rand)

Useful life of project in years

Estimation of the kWh equivalent savings over the useful life

Does this project has concurrent claim? Yes No

Eligibility Checklist

Please choose the color coded category of your project: Green Blue Red Yellow Grey

Is the project saving energy by conservation through improved energy management without recovery of waste energy, or improving the energy efficiency of an activity? Yes No

Energy carrier saved: ?

Submit

Red – Energy Efficiency – Modify Equipment



Project title

Starting date 2009 - 01 - 01

Type of tax incentive 12I

Target energy saving for this tax incentive project (1000 kWh)

Investment for this tax incentive project (1000 Rand)

Useful life of project in years

Estimation of the kWh equivalent savings over the useful life

Does this project has concurrent claim? Yes No

Eligibility Checklist

Please choose the color coded category of your project: Green Blue Red Yellow Grey

Is the project replacing, or modifying any equipment, structure or process to improve the energy efficiency of the equipment, structure or process ?

Is the present energy efficiency quantifiable and roughly known %

Estimation of energy efficiency after successful project implementation %

Submit

Yellow – CHP



Project title	<input type="text"/>
Starting date	2009 ▾ - 01 ▾ - 01 ▾
Type of tax incentive	12L ▾
Target energy saving for this tax incentive project (1000 kWh)	<input type="text"/>
Investment for this tax incentive project (1000 Rand)	<input type="text"/>
Useful life of project in years	<input type="text"/>
Estimation of the kWh equivalent savings over the useful life	<input type="text"/>

Does this project has concurrent claim? Yes No

Eligibility Checklist

Please choose the color coded category of your project: Green Blue Red Yellow Grey

Is the project a combined heat and power plant (CHP) as per 6(1) of 12L? Yes No

Is the energy input to the CHP a waste product or residual product? Yes No

The waste or residual product is NOT procured from outside? Yes No

Is the CHP considered a Greenfield project? Yes No

Grey – CPP – Captive Power Plant



Target energy saving for this tax incentive project (1000 kWh)

Investment for this tax incentive project (1000 Rand)

Useful life of project in years

Estimation of the kWh equivalent savings over the useful life

Does this project has concurrent claim? Yes No

Eligibility Checklist

Please choose the color coded category of your project: Green Blue Red Yellow Grey

Does the project save electricity, or process heat, or electricity and process heat, supplied by a captive power plant (CPP) as defined under 12L? Yes No

Is the energy input to the CPP a renewable energy source as defined by 6(1) of 12L? Yes No

Is the energy conversion efficiency of the CPP, larger 35%? Yes No

Is the project saving only electricity? Yes No

Is the project also improving the energy conversion efficiency of the CPP? Yes No

Is all of the useable energy output of the CPP used by the company generating it? Yes No

Project Information



- All the information and relevant reports are shown in the project information page. Click on links on the project information page to read the reports and see the comments of the projects.
- To upload documents for the claim of tax incentives, on the project list page, click the “browse” button under the “Action” column of the project list table to upload all supporting documents.
- Please note that all uploaded documents must be in PDF format. Click the “Upload” button to upload the documents to the system.

Home Login Contact Us About Us Support

Register new project Claimant Profile Project list Change alias/password Help Log out

Project list

The project can be searched by project title.

Please input the searching keywords

Show 5 entries

Project number	Project title	Report status	Project stage	Action
2009-01-01	Test surjay	N/A	Inactivated	Tax invoice upload <input type="button" value="browse"/> <input type="button" value="Upload"/>





Showing 1 to 1 of 1 entries

M&V Selection



 Choose M&V Body from list

Please choose the M&V inspection body

-  All the names of registered and SANAS accredited M&V inspection bodies are shown in this menu.
-  Select the name of contracted M&V inspection body.
-  If claimant clicked the “No” option a group of registered M&V inspection bodies is shown on the page. The names, technology scopes and contact information of M&V inspection bodies are also given.
-  If a M& V body is not chosen, the project cannot be registered.

Project Information



- For each project in the project list, claimant can click its project title to direct to the project information page

Home Login Contact Us About Us Support

Project information

Project number: 2009-01-01

Project title: [Empty text box]

Starting date: 2009-01-01

Type of tax incentive: t21

Target energy saving for this tax incentive project (1000 kWh): 1000

Investment for this tax incentive project (1000 Rand): 1000000

Project stage: Inactivated

There is no concurrent claim involved in this project.

Tax invoices of this project:

There is no tax invoices involved in this project.

Technologies in this project:

energy efficiency:

Baseline report:

There is no baseline report now.

The project is not in the Performance Assessment stage.

Project List



- 🌱 All the registered projects are shown in the project list page.
- 🌱 The project can be searched by the keywords of the project title

Project list

The project can be searched by project title.

Please input the searching keywords

Search

Project number	Project title	Project status	Project stage	Action
----------------	---------------	----------------	---------------	--------



 The homepage consists of six components:

- Activate project
- Update project
- M&V body profile
- Change alias/password
- Help
- Log out



Activate Project



- Click the link “Activate project” of the homepage of the M&V inspection body to redirect to the un-activated projects list page.
- The project can be searched by keywords.

Project list

Please set the searching criterion:

Project number (Keywords):

Project title (Keywords):

Claimant (Keywords):

Project registration date:
(yyyy-mm-dd)

From:

To:

Project number	Project title	Project status	Project stage	Project registration date	Claimant	Action
----------------	---------------	----------------	---------------	---------------------------	----------	--------

Activate Project (cont'd)



- 🌱 For each project in the project list, M&V body can click the “Activate” button under the “Action” column of the project list table to activate the project.
- 🌱 After clicking the “Activate” button, a dialog box will be pop up to confirm that M&V body has a contract with claimant.
- 🌱 If “Yes” button clicked, another dialog box will be pop up to confirm that M&V body has no conflict of interest to do the M&V of the project.
- 🌱 If no conflict the M&V body will be directed to the project activation page.

Project Activation



Project activation

Project number

Project title

Requested date

,

Type of tax incentive

Target energy saving for this tax incentive (kWh)

Investment for this tax incentive (1000 Rand)

Project progress

Project summary

Starting date of M&V project

,

M&V professional (Initials & Surname)

Please choose the technology involved in this project*:

load shift energy efficiency Pump

Does this project have concurrent claim? Yes No

Concurrent claimed organisation: ESKOM

Energy saving claimed from the above organisation(kWh)

Investment for the above claimed energy saving (1000 Rand)

Concurrent claimed organisation: Others

Energy saving claimed from the above organisation (kWh)

Investment for the above claimed energy saving (1000 Rand)

Project Activation



- 🌱 The M&V body needs to confirm that the basic information of the project is correct.
- 🌱 M&V body needs to input the initial and surname of M&V professional that is in charge of this project.
- 🌱 M&V body needs to choose the key technologies involved in the project.
- 🌱 Once project is activated the claimant will receive an activation email from the system.

M&V Body - Update Project



- Click “Baseline report update” of the M&V menu to redirect to the baseline project list page.

Please set the searching criterion:

Project number (Keywords):

Project title (Keywords):

Claimant (Keywords):

Project registration date (yyyy-mm-dd): From: To:

Project number	Project title	Project status	Project stage	Baseline deadline	Project registration date	Claimant	Action
----------------	---------------	----------------	---------------	-------------------	---------------------------	----------	--------

Baseline Report Update



- The project can be searched by keywords. Each project in the project list has two links: “Send to panellist” and “Baseline report update” in the “Action” column

Please set the searching criterion:

Project number (Keywords):

Project title (Keywords):

Claimant (Keywords):

Project registration date (yyyy-mm-dd): From: To:

Project number	Project title	Project status	Project stage	Baseline deadline	Project registration date	Claimant	Action
----------------	---------------	----------------	---------------	-------------------	---------------------------	----------	--------

Baseline Report Update



Click “Baseline report update” to direct to the baseline update page

A screenshot of the Sanedi website's 'Baseline update' page. The page features the Sanedi logo at the top center, followed by a navigation bar with links for Home, Login, Contact Us, About Us, and Support. Below this is a secondary navigation bar with links for Activate project, Update project, M&V professional profile, Change alias/password, Help, and Log out. The main heading is 'Baseline update'. The form includes fields for Project number (2009-01-0180) and Project title (ColorTest43). A note states: 'The format of version is 'v'+ version number, such as 'v1', 'v2', etc.' The form contains several input fields: '*Baseline energy consumption (1000 kWh)' with a text box and a small icon; '*Report version' with a text box; 'Baseline report starting date' with a date picker set to 2009-01-01; 'Baseline report ending date' with a date picker set to 2009-01-01; and '*Baseline report' with a 'Choose File' button and the text 'No file chosen'. An 'Upload' button is located at the bottom of the form.

Baseline Report Update



- 🌍 M&V body needs to fill in the baseline update page and chooses the baseline report to be uploaded.
- 🌍 When M&V body upload the baseline report for the first time, the report version is “v1”. When M&V body uploads the baseline report for the second time, the report version is “v2”.
- 🌍 The format of baseline report must be PDF.
- 🌍 The reporting period of baseline report is 12 months.
- 🌍 Click the “Upload” button to upload the report.
- 🌍 M&V body must send the report to SANEDI by clicking “submit”.
- 🌍 This must be done before the baseline deadline

Performance Update



- Click “Performance assessment report update” of the sub-menu to redirect to the performance assessment project list page.

List of project

Please input one or more of the searching keywords:

Project number (Keywords):

Project title (Keywords):

Claimant (Keywords):

Project registration date: (yyyy-mm-dd)

From:

To:

Show entries

Project number	Project title	Report status	M&V stage	Performance assessment report submission deadline	Project registration date	Claimant	Action	Project stage
----------------	---------------	---------------	-----------	---	---------------------------	----------	--------	---------------

Performance Assessment Update



- 🌱 The project can be searched by the keywords.
- 🌱 Each project in the project list has the link: “Performance assessment update” or “COC” in the “Action” column.
- 🌱 When the project is implemented, please click the link “COC” to direct to the completion date update page.
- 🌱 In the completion date page, please fill in the completion date and click the “Submit” button to update the date.
- 🌱 After inputting the completion date, please click the link “Performance assessment update” to direct to the performance assessment update page

Performance Assessment Update



- 🌍 M&V body needs to fill in this page and choose the performance assessment report to be uploaded. The format of the report must be PDF.
- 🌍 Click the “Upload” button to upload the report

Project number: 2007-01-01

Project title: aaa

Completion date: 2008-02-01

*Adjusted baseline energy consumption (1000kWh):

*Actual energy consumption (1000kWh):

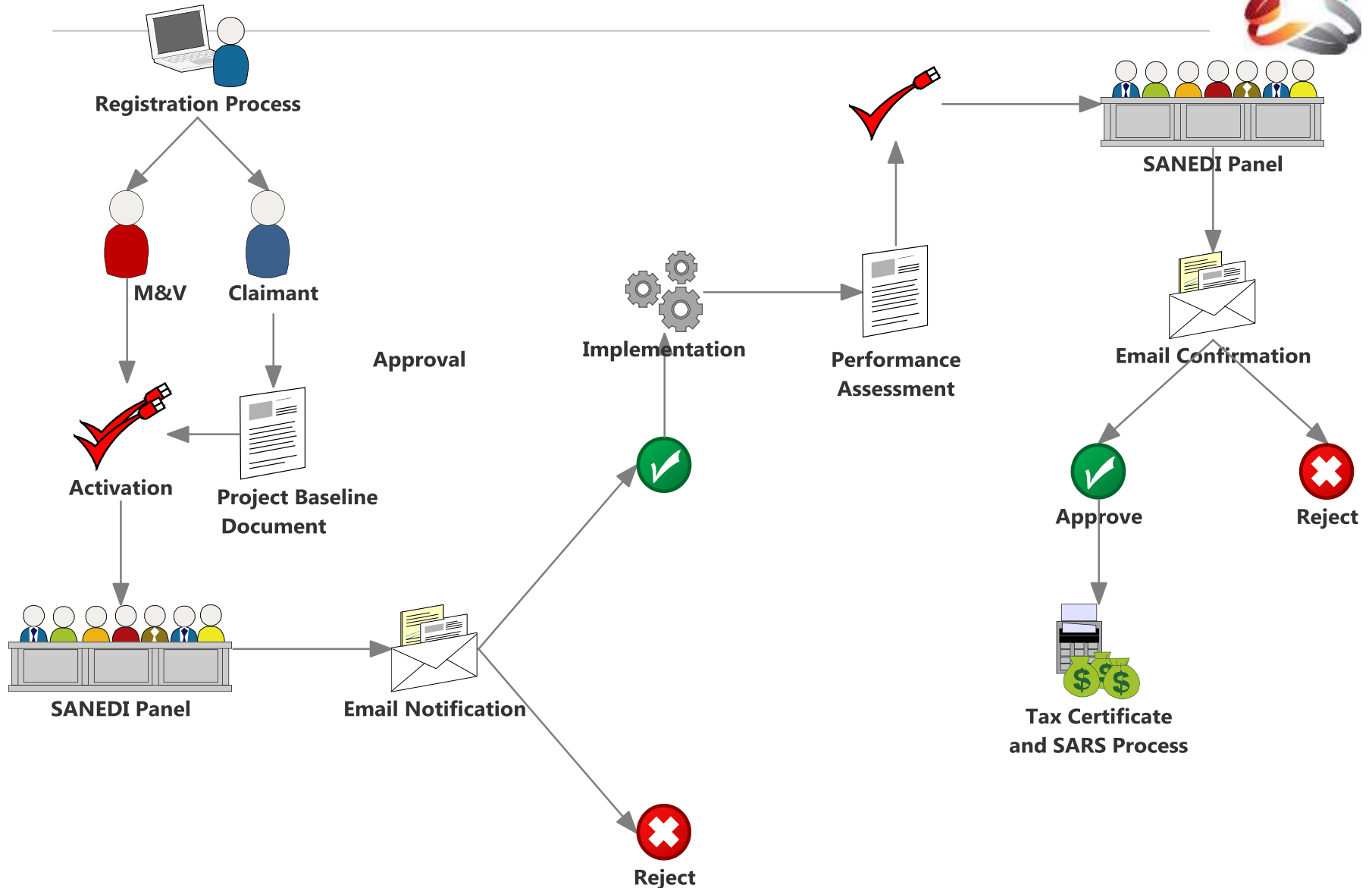
*Energy savings (1000kWh):

*Starting date of the reporting period: 2007 - 01 - 01

*Ending date of the reporting period: 2007 - 01 - 01

*Performance assessment report:

SANEDI ONLINE Tool



Summary



- 🌱 Intention is to be workflowed and paperless
- 🌱 Database of information
- 🌱 Speed of approval
- 🌱 Ongoing improvements as we go along



sanedi

South African National Energy
Development Institute (SOCI) Ltd.



**THANK
YOU**

www.saneditax.org.za

ENERGY INNOVATION FOR LIFE