

SANEDI 2018/19 ANNUAL REPORT



The Act provides in detail for SANEDI's Mandate



The National Energy Act, 2008 (Act No. 34 of 2008), Section 7 (2) gave effect to SANEDI's existence and provides for its primary mandate and specific responsibilities.



The Act provides for SANEDI to direct, monitor and conduct energy research and development, promote energy research and technology innovation as well as undertake measures to promote energy efficiency throughout the economy.

SANEDI's activities contribute across the entire energy landscape, to all of society

Cleaner Fossil Fuels

Carbon capture and storage Carbon utilisation Clean coal technologies Hybrid systems



Municipal / ESI sustainability Integration of distributed and variable generation sources Support for advanced appliances / electric vehicles

Cleaner Mobility

Electric vehicles Clean fuels (NLG, CNG, etc.) Public transport systems Pedestrian / cycling enabled



Data and knowledge management

National energy data repository Energy modelling skills and capacity Analysis and modelling Decision and planning support tools





Working for Energy

Clean energy solutions for rural and peri urban areas Employment creation Research



Energy Efficiency

Improved resource efficiency Technical assistance facility Industry development Tax incentives



Renewable Energy

Solar power
Wind energy
Waste to energy
Wave and ocean current
Storage
Skills development

SANEDI's strategic direction cascades well from the vision through to the programme level.

SANEDI defined strategic direction

Vision	Mission	Strategic outcome oriented goals	Strategic Objectives	Programme		
_	ty	A resilient, efficient, effective	An effectual internal control environment.			
ing for growth and Africa	earch and resource ovative, integrated growth and prosperity	and enabling delivery environment that is aligned to / complies with all statutory requirements	A team that is adequately staffed, adequately skilled and trained and adequately representative of the national demographics.	Corporate Governance and Administration		
			Effective risk management on risk areas affecting SANEDI.			
	ι ω ⊂ ΄		Effective and comprehensive stakeholder management.			
	Using applied energy re efficiency to develop in: solutions that will catalyse	Energy innovation, knowledge and skills for a less carbon intensive, more environmentally sustainable, affordable and efficient energy system	Energy related support, information and advice to inform high confidence energy planning, decision-making and policy development (including knowledge custodianship).	Energy Efficiency		
Sustaine		emolent energy system	Accelerated adoption of clean energy solutions to optimise the use of finite resources and the transition to a sustainable low carbon future	Applied Energy Research, Development and Innovation		



Performance Information

Performance for 2018/19



△ SANEDI achieved 83% of its performance indicators in the 2018/19FY.

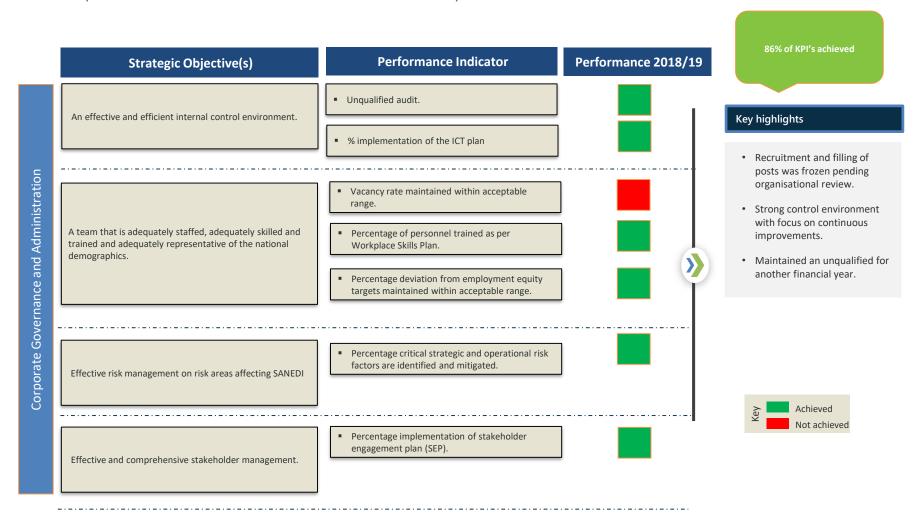
Total number of targets for the year	52
Number of targets achieved	43
Number of targets not achieved	9
Percentage performance	83%

SANEDI also had no material findings on the Auditor's report with respect to the Performance information as reported.

KPI-based performance by programme: Corporate Governance and Administration



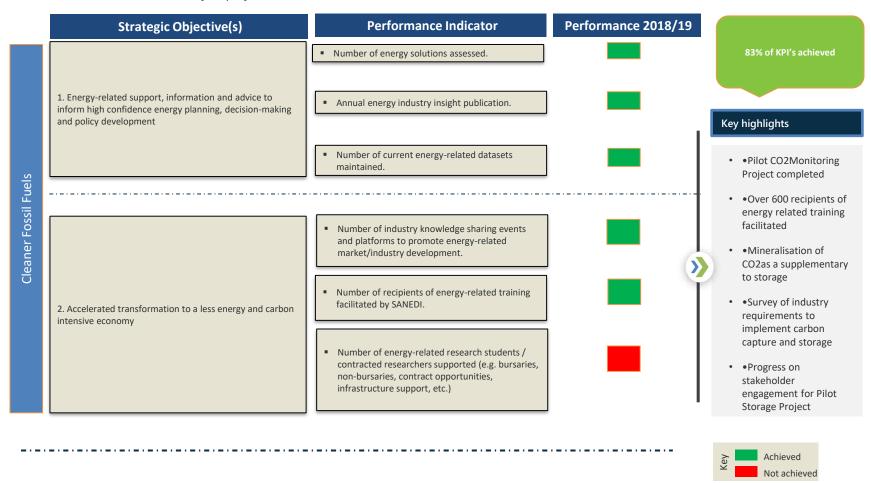
Corporate Governance and Administration achieved 86% of its performance indicators in the 2018/19FY.



KPI-based performance by programme: Cleaner Fossil Fuels



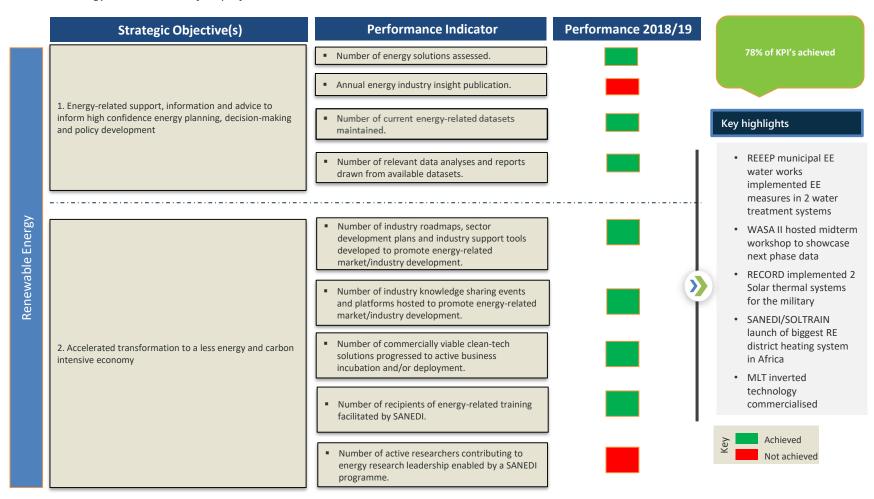
Cleaner Fossil Fuels achieved 83% of its performance indicators in the 2018/19FY



KPI-based performance by programme: Renewable Energy



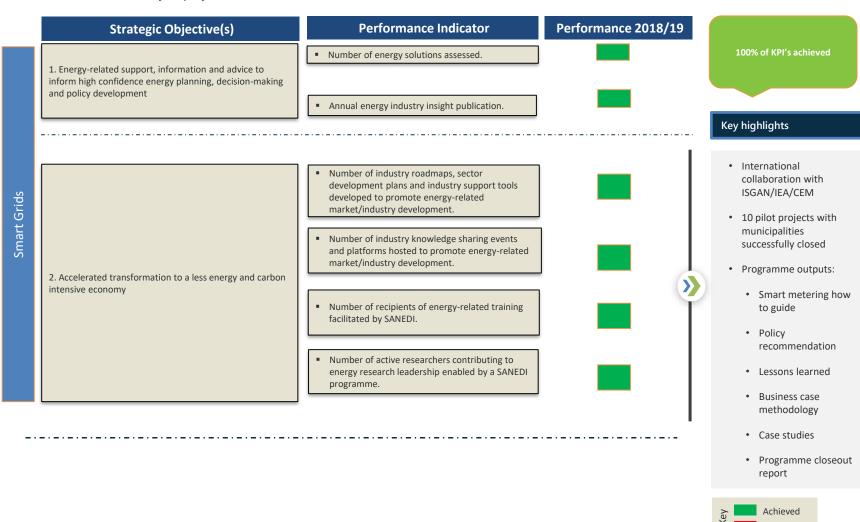
Renewable Energy achieved 78% of its performance indicators in the 2018/19FY



KPI-based performance by programme: Smart Grids



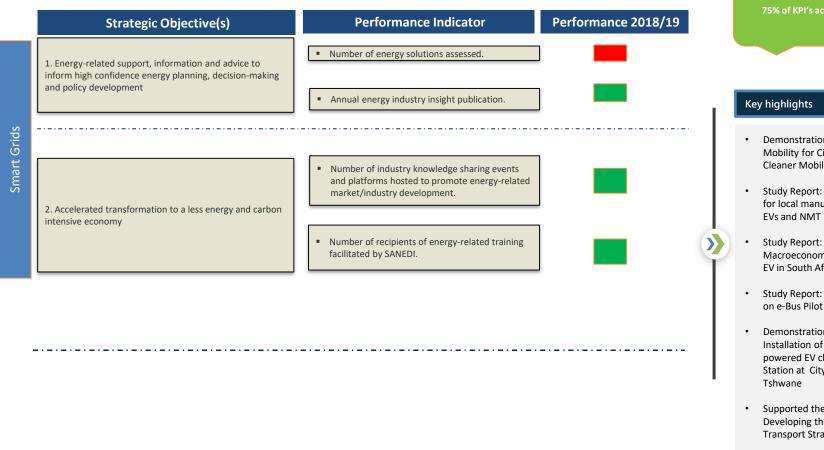
Smart Grids achieved 100% of its performance indicators in the 2018/19FY



KPI-based performance by programme: Cleaner Mobility



Cleaner Mobility achieved 75% of its performance indicators in the 2018/19FY



75% of KPI's achieved

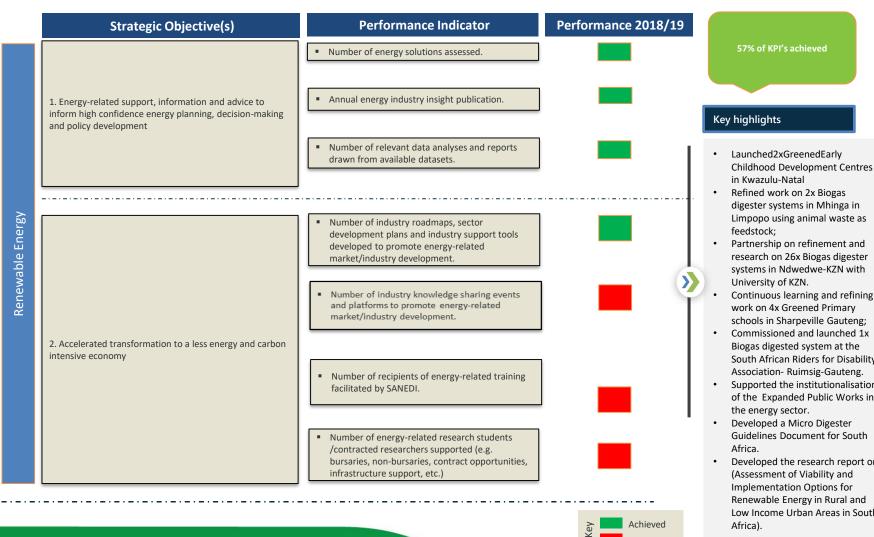
- Demonstration: Smart Mobility for Cities -Cleaner Mobility Week
- Study Report: Potential for local manufacturing of EVs and NMT
- Macroeconomic study on EV in South Africa
- Study Report: Case Study on e-Bus Pilot Project
- Demonstration: Installation of 1 solar powered EV charging Station at City of
- Supported the DoT in Developing the Green **Transport Strategy**



KPI-based performance by programme: Working for Energy



Working for Energy achieved 57% of its performance indicators in the 2018/19FY

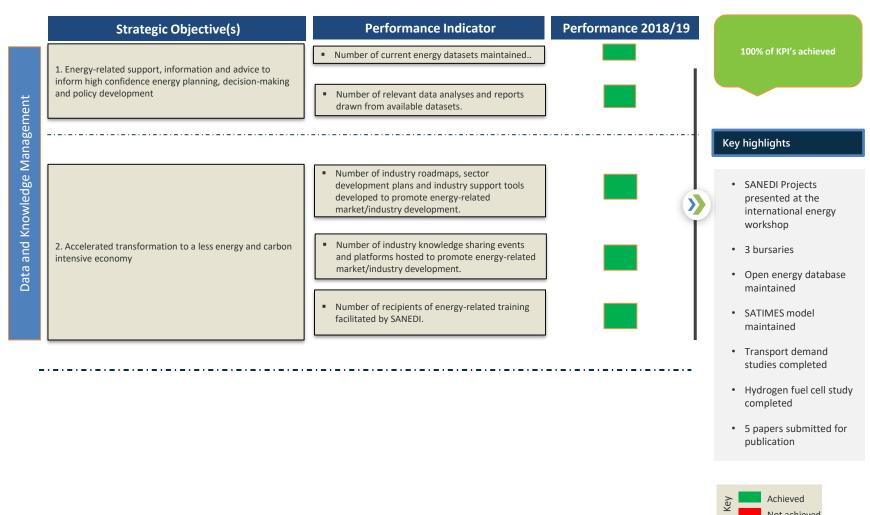


57% of KPI's achieved

- Launched2xGreenedEarly Childhood Development Centres
- Refined work on 2x Biogas digester systems in Mhinga in Limpopo using animal waste as
- Partnership on refinement and research on 26x Biogas digester systems in Ndwedwe-KZN with
- work on 4x Greened Primary schools in Sharpeville Gauteng;
- Commissioned and launched 1x Biogas digested system at the South African Riders for Disability Association- Ruimsig-Gauteng.
- Supported the institutionalisation of the Expanded Public Works in
- Developed a Micro Digester **Guidelines Document for South**
- Developed the research report on (Assessment of Viability and Implementation Options for Renewable Energy in Rural and Low Income Urban Areas in South

KPI-based performance by programme: Data and Knowledge Management

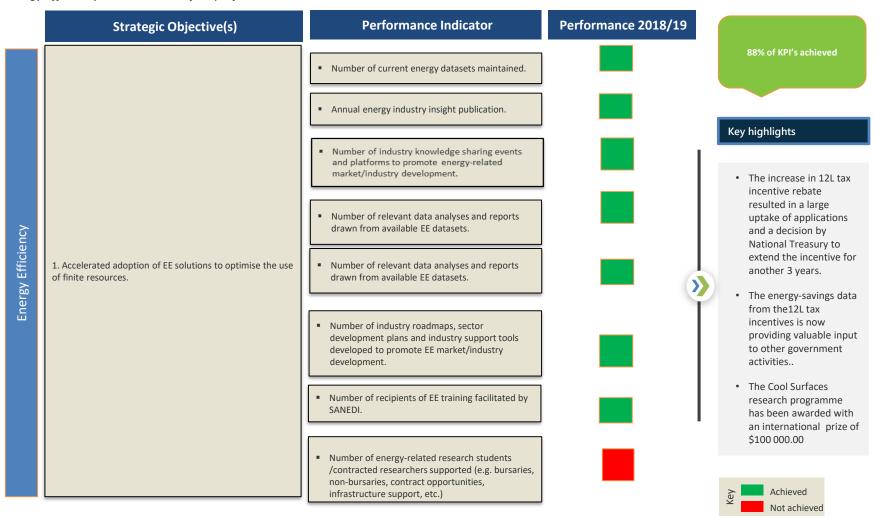
Data and Knowledge Management achieved 100% of its performance indicators in the 2018/19FY



KPI-based performance by programme: Energy Efficiency



Energy efficiency achieved 88% of its performance indicators in the 2018/19FY



Challenges and Opportunities



Governance

The National Energy Act prescribes the composition of Board members

- 2. Only 2 non independents thus no sufficient allowance for industry experts
- 3. Vacancies take time to be filled because of government processes
- 4. Lack of strategic direction from some ministries to representatives
- 5. No representatives from Transport
- 6. CEO vacancy (Imminent)

Structural

- 1. Organisational Review underway to refocus the organisation
- Strategic sessions with board and various stakeholders to align SANEDI 's focus to National Priorities
- 3. Impact assessment

Funding

- 1. SANEDI is still on an establishment grant, and grossly underfunded
- 2. Other entities, with funding encroaching o SANEDI's Mandate.

Opportunities

Challenges

- The National Energy Act can be revised to re-look at the composition of the Board
- 2. Provision can be made for more independents and industry Experts
- 3. Alignment of the Act to best practice with respect to corporate governance

- 1. Increased impact with a Focused strategy
- 2. Better support for government priorities, e.g. smart cities
- 3. Fit purpose operating model and structure

- 1. Alternative sources of funding for SANEDI e.g. Levy, green fund
- Increased collaboration with other organs of state and National departments
- 3. Greater collaboration with development agencies



Financial Statements

Financial Performance

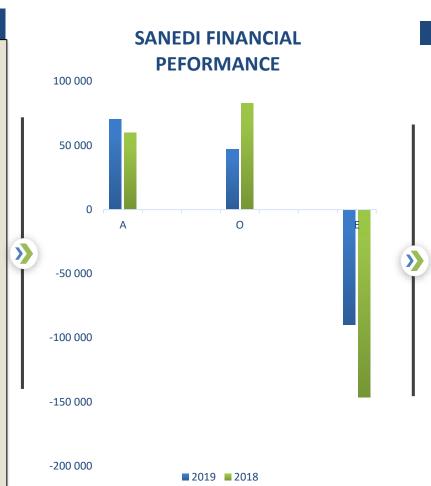


Financial Position

- SANEDI is funded through an allocation from National Treasury through the DMRE
- **2.** A= Total revenue amounted to R117 million with of R70 million being the allocation from the National Treasury.
- **3. O**=Leveraged funds for the financial year amounted to 40% of total income reported (58% in 2018).

Financial performance

4. E=Expenses Amounted to 90 million declined by 38% from the previous year as multi year projects run to a close in 2019.



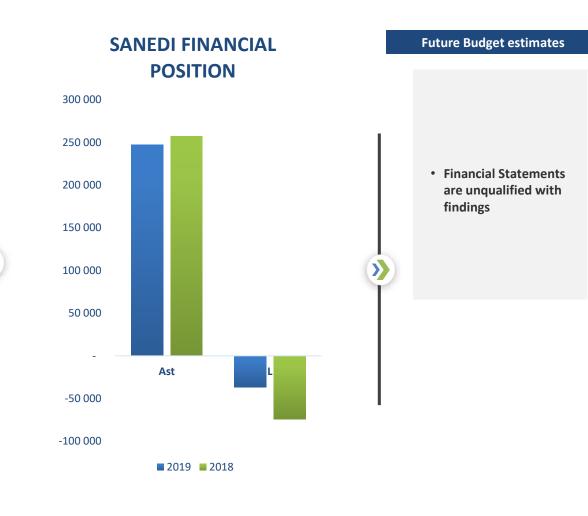
Future Budget estimates

- Allocation is expected to increase by 5,5% in 2020
- Funding from World bank \$23 secured for Carbon Capture and Storage
- About R 30 million per annuum for 3 years expected from the NAMA facility for Energy Efficiency project(Measurement and verification

Financial Position



Financial Position 1. Ast = Assets exceeded liabilities at 31 Financial performance March 2019 with a cash balance of R 230 million. 2. Cash balance as disclosed is mostly. 3. L = Liabilities related to donor funding for projects, amounted to R37 million.





GOVERNANCE

SANEDI Board of Directors



Name	Designation	Date appointed/ re- appointed	Resigned/ Term ended	Qualifications	Board ¹⁸ Directorships	Other committees or task teams ¹⁹	No. of meetings ²⁰ attended
Mr Nkululeko Buthelezi	7		N/A	Dip Scientific Computing and Software Engineering, Dip Management, Adv Dip Project Management, Post Grad Dip Management, MBA	None	BARC, FinCo, SJ&E	Board: 5 Committee: 2
Mr Mlondolozi Mkhize	Independent Director, and HR & Rem Chair	01-Dec-16	N/A	BA Soc Sci		BARC, HR&R, SJ&E	Board: 0 Committee: 0
Ms Phuthanang Motsielwa	Independent Director, and BARC Chair	20-Aug-13	N/A	B Acc (CA)(SA), RA	PSTM Auditors Inc Director African Women Chartered Accountants Setshoge Foundation	BARC, FinCO, SJ&E	Board: 5 Committee: 1
Mr Mmboneni Muofhe	Director, and Projects Committee Chair	01-Dec-16	N/A	BSc (Hons), MSc, MBA	The Innovation Hub Biovac	Proj, SJ&E	Board: 2 Committee: 0
Dr Rebecca Maserumule	Alternate Director	23-Oct-13 01-Dec-16	N/A	PhD, BSc	None	Alternate	Board: 2 Committee: 1
Ms Deborah Ramalope			N/A	BSc (Hon), MSc, MBL	None	Proj	Board: 2 Committee: 1
Ms Nomawethu Qase	Director	01-Dec-16	N/A	M Phil (Energy Studies), Post Grad Dip Management, B Soc Sc (Hons)	None	HR & Rem, Proj	Board: 3 Committee: 2
Mr Thabang Audant	Alternate Director	01-Aug-17	N/A		None	Alternate	Board: 1 Committee: 0
Mr Gerhard Fourie	Director	01-Dec-16	N/A	Diploma Mech Eng, B Com Economics, MBA	None	Proj, FinCo	Board: 4 Committee: 1

SANEDI Board Committees



- Vacancies on the Board negatively impacted the functioning of Board Committees
- 2. Board however managed to takeover most of the responsibilities.

Committee	No. of meetings held	No. of members	Name of members	
Board Audit and Risk Committee (BARC)	1	221	Ms Phuthanang Motsielwa (Chair),	
			Mr Mlondolozi Mkhize, and	
			Mr Nkululeko Buthelezi (resigned).	
Human Resources and Remuneration	1	3	Mr Mlondolozi Mkhize (Chair),	
Committee			Ms Nomawethu Qase,	
			Mr Nkululeko Buthelezi, and	
			Dr Ingrid Tufvesson (resigned from Board).	
Projects Committee	1	3	Mr Mmboneni Muofhe (Chair),	
			Ms Deborah Ramalope,	
			Dr Ingrid Tufvesson (resigned from Board), and	
			Mr Gerhard Fourie.	
Finance and Investment Committee	1	3	Mr Nkululeko Buthelezi (Chair),	
			Ms Phuthanang Motsielwa,	
			Dr Ingrid Tufvesson (resigned from Board), and	
			Mr Gerhard Fourie.	
Social Justice and Ethics Committee	0	4	Dr Ingrid Tufvesson (resigned from Board),	
			Ms Phuthanang Motsielwa,	
			Mr Nkululeko Buthelezi,	
			Mr Mlondolozi Mkhize, and	
			Mr Mmboneni Muofhe.	



HUMAN RESOURCES

Employment Equity Status



• At the end of the 2017/18 financial year, SANEDI had 24 male (45%) and 29 female (55%) staff members employed.

Levels	MALE							
	African		Coloured		Indian		White	
	Current	Target	Current	Target	Current	Target	Current	Target
Top Management	-	-	-	-	-	-	-	-
Senior Management	1	-	-	-	1	-	2	-
Professional qualified	5	-	1	-	3	-	2	-
Skilled	6	-	-	-	1	-	-	-
Semi-skilled	1	-	-	-	-	-	-	-
TOTAL	13	-	1	-	5	-	4	-

Levels	FEMALE								
	AFRICAN		COLOURED		INDIAN		WHITE		
	Current	Target	Current	Target	Current	Target	Current	Target	
Top Management	2	-	-	-	-	-	-	-	
Senior Management	-	-	-	-	-	-	-	-	
Professional qualified	8	-	-	-	-	-	2	-	
Skilled	15	-	1	-	1	-	1	-	
Semi-skilled	3	-	-	-	-	-	-	-	
TOTAL	28	-	1	-	1	-	3	-	



THANK YOU