



South Africa's Energy Subsidies Inventory, 2025

Data, Definitions, and References Annex

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This document provides a data table, methodology update, subsidy and support descriptions, and references for the International Institute for Sustainable Development's *[The Energy Tab: Energy Subsidies in South Africa 2025](#)*.

This work is an update to *[Blackouts and Backsliding: Energy Subsidies in South Africa 2023](#)* (published in 2024), and draws on *[South Africa's Energy Fiscal Policies. An Inventory of Subsidies, Taxes, and Policies Impacting the Energy Transition](#)* (published in 2022).

Reporting Periods

In South Africa, the government financial year (FY) runs from 1 April to 31 March and is named by the year it ends. So, FY 2024 = FY 2023/2024 = 1 April 2023 to 31 March 2024.

The original sources for the data in Tables 1, 2, and 3 use the government FY, as do our estimations of carbon tax exemption.

Updates From 2024 to 2025

Compared to the inventory published in 2024, there have been several changes in data sources and estimations.

- This inventory contains two additional years, FY 2024 and FY 2025.
- Eight items that previously used Organisation for Economic Co-operation and Development data for South Africa have been replaced with data from the original national sources, and the descriptions after the tables have been updated.
- New measures included: Energy Efficiency Tax Incentive (Section 12L of the Income Tax Act) and the Smart Meters Grant (introduced for FY 2025). The bailouts to Eskom were previously discussed as government support, but these are now included as subsidies. We have identified seven subsidies specific to renewable energy and storage, and four that energy projects might be able to apply for, but the majority of these have not been quantified due to a lack of publicly available data (for published values or inputs to use in own calculations).
- One item was removed: Fiscal funding for the New Multi-Product Pipeline Project by Transnet. Since the pipeline was completed (2014) and upgraded (by 2018), it has not been mentioned in *Estimates of National Expenditure* since 2019.
- Our method for estimating the carbon tax exemption values has been updated and is explained below.
- We have noted the government guarantees for energy, as they can be counted as a subsidy (as government is making a financial contribution by taking on risk). But these are not included in the overall subsidy totals, and these risk-related measures are different from subsidies that involve actual transfer of funds or revenue foregone.

All currency conversions in the report are done using the International Monetary Fund exchange rates data set (downloaded September 2025) for the appropriate historical time period (International Monetary Fund, 2025). Financial years were based on the average of the 12 monthly values. Sums over multiple financial years were converted per financial year and then added.

Table 1. Non-exhaustive list of quantified energy subsidies (nominal values) in South Africa, FY 2018 to FY 2025

#	Policy name	Main energy carrier	Nominal values (ZAR million)							
			FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25
1	Value-added tax (VAT) zero-rating for sales of petrol, diesel, and illuminating paraffin	Liquid fuels	23,892	29,279	29,053	22,062	31,767	40,914	40,914	40,914
2	Refund of Fuel Levy and Road Accident Fund (RAF) levy for diesel consumed in specific sectors	Liquid fuels	3,025	5,846	8,767	7,090	7,347	6,508	7,482	7,830
3	General Fuel Levy (GFL) freeze and temporary reduction	Liquid fuels	0	0	0	0	0	10,500	4,000	4,000
4	Petroleum Agency South Africa: subsidies on products and production	Liquid fuels	87	98	127	91	93	94	92	87
5	Government grants for Petroleum Oil and Gas Corporation of South Africa (PetroSA) training	Liquid fuels	4	4	7	Nd	Nd	Nd	Nd	Nd
6	Free basic energy services	Electricity	8,725	9,604	10,612	11,645	12,215	13,997	16,556	18,251

#	Policy name	Main energy carrier	Nominal values (ZAR million)							
			FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25
7	Integrated National Electrification Programme	Electricity	6,092	5,301	4,997	3,342	4,827	5,708	5,550	3,942
8	Energy efficiency and demand-side management grant for selected municipalities	Electricity	203	215	227	193	221	223	224	236
9	Smart Meters Grant	Electricity								500
10	Eskom bailouts	Electricity	0	0	49,000	56,000	31,700	21,900	76,000	64,000
11	South African Nuclear Energy Corporation	Nuclear	664	683	890	933	977	1,008	992	923
12	Fiscal support for water transportation for Eskom power stations and Sasol operations	Multiple	788	1,262	1,229	1,477	1,507	987	1,038	Nd
13	South African National Energy Development Institute	Multiple	60	70	74	74	75	81	81	77
14	Energy Efficiency Tax Incentive	Multiple	611	1,913	181	121	216	3	Nd	Nd
15	Carbon tax exemption	Multiple	0	0	27,930	34,614	36,546	39,239	45,854	57,211
	Total		44,151	54,276	133,095	137,642	127,490	141,163	198,784	197,971

Notes:1) Figures are rounded to nearest million. 2) Zero values are where the subsidies did not apply in that fiscal year. 3) Nd = No data. These missing values for item #5 are because PetroSA has not released any annual reports or financial statements since 2020. 4) Grey cells are our estimations, and the calculations are explained in the following section on descriptions of measures. 5) The very few renewable energy subsidy values are listed in Table 5, and these are mainly projected future values rather than reported values based on data collected, so they are not included here.

Sources for each subsidy: #1, 2, 13 (National Treasury, 2023b, 2025a); #3 (National Treasury, 2023b, 2024b); #4, 7, 8, 11, 13 (National Treasury, 2021c, 2024e, 2025b); #5 (Petroleum Oil and Gas Corporation of South Africa, 2018, 2019, 2020); #6 (National Treasury, 2017a, 2018, 2019, 2020b, 2021b, 2022b, 2023c, 2024d); #9 (National Treasury, 2024d); #10 (Eskom, 2020b, 2021b, 2022b, 2023b, 2024b); #12 (Trans-Caledon Tunnel Authority, 2019, 2020, 2022, 2023, 2024); #15 Own calculations using data from (Department of Forestry, Fisheries and the Environment, 2025; Eskom, 2020a, 2021b, 2021a, 2022a, 2023b, 2023a, 2024b, 2024a, 2025; Sasol Limited, 2020, 2021, 2022, 2024b, 2024a, 2025c, 2025b, 2025a; South African Revenue Service, 2024a).

Table 2. Non-exhaustive list of quantified energy subsidies (real FY 2025 values) in South Africa, FY 2018 to FY 2025

#	Policy name	Main energy carrier	Real values FY 25 (ZAR million)							
			FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25
1	VAT zero-rating for sales of petrol, diesel, and illuminating paraffin	Liquid fuels	33,125	38,797	36,948	27,255	37,301	44,828	42,478	40,914
2	Refund of Fuel Levy and RAF levy for diesel consumed in specific sectors	Liquid fuels	4,194	7,746	11,149	8,759	8,627	7,131	7,768	7,830
3	GFL freeze and temporary reduction	Liquid fuels	0	0	0	0	0	11,504	4,153	4,000
4	Petroleum Agency South Africa: subsidies on products and production	Liquid fuels	121	130	162	113	109	103	96	87
5	Government grants for PetroSA training	Liquid fuels	5	6	9	Nd	Nd	Nd	Nd	Nd
6	Free basic energy services	Electricity	12,097	12,726	13,496	14,386	14,343	15,336	17,189	18,251
7	Integrated National Electrification Programme	Electricity	8,446	7,024	6,355	4,128	5,667	6,254	5,763	3,942
8	Energy efficiency and demand-side management grant for selected municipalities	Electricity	282	285	289	238	259	245	233	236

#	Policy name	Main energy carrier	Real values FY 25 (ZAR million)							
			FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25
9	Smart Meters Grant	Electricity								500
10	Eskom bailouts	Electricity	0	0	62,315	69,180	37,223	23,995	78,905	64,000
11	South African Nuclear Energy Corporation	Nuclear	921	905	1,132	1,153	1,147	1,105	1,030	923
12	Fiscal support for water transportation for Eskom power stations and Sasol operations	Multiple	1,093	1,672	1,563	1,825	1,770	1,082	1,078	Nd
13	South African National Energy Development Institute	Multiple	83	93	94	91	88	89	85	77
14	Energy Efficiency Tax Incentive	Multiple	847	2,535	230	149	254	3	Nd	Nd
15	Carbon tax exemption	Multiple	0	0	35,520	42,761	42,913	42,993	47,607	57,211
	Total		61,214	71,920	169,263	170,037	149,701	154,666	206,383	197,971

Calculation of real values for Table 2 (using nominal values from Table 1).

A Consumer Price Index (CPI) time series using monthly data from StatSA CPI history (Statistics South Africa, 2025) was created from April 2017 to March 2025. For each government fiscal year (1 April to 31 March), the average CPI was calculated. The CPI for FY 2025 was used as a baseline. The deflator for each year was then CPI (FY 2025) divided by CPI (required FY). The nominal values for each FY (Table 1) were then multiplied by the relevant deflator to give real values in FY 2025 terms.

Table 3. Direct energy-related government guarantees in South Africa, FY 2018 to FY 2025

#	Government guarantee	Fuel type	Nominal values (ZAR million)							
			FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25
16	Eskom	Electricity	250,648	285,587	326,868	298,289	313,020	362,289	356,925	357,587
17	Independent power producers	Electricity	122,188	146,892	161,427	176,684	165,695	187,064	207,701	229,489
18	South African Nuclear Energy Corporation	Nuclear	20	20	20	20	20	20	20	20
	Energy total		372,856	432,499	488,315	474,993	478,735	549,373	564,646	587,096
	All other (not directly energy)		86,251	93,069	95,493	94,459	90,193	77,686	82,928	88,376
	Total		459,107	525,568	583,808	569,452	568,928	627,059	647,574	675,472

Note: 1) For FY 24 and FY 25, the Eskom guarantee values include those for the Eskom debt-relief arrangement, as government needed to increase its public sector borrowing requirement to be able to transfer the funds to Eskom. 2) The guarantees for #16 (Independent power producers) are mainly for the Renewable Energy Independent Power Producer Procurement Programme, which has run competitive auctions since 2011.

Source: #16-18 (National Treasury, 2025a).

Table 4. Non-exhaustive list of subsidies specific to renewable energy and energy storage in South Africa between FY 2018 and FY 2025

	Incentive	Primary beneficiary or target	Can energy storage qualify?	Description
A	Solar water heater programme 2008 onwards, budget cut in 2018	Households	Yes - it is a form of storage	Two components: 1) Eskom administered rebates to households purchasing solar water heaters up until 2015. 2) Through fiscal funding, the program supported installation of solar water heaters in low-income households, but there were significant mismanagement problems and issues with poor quality installations.
B	Section 12B of Income Tax Act (ITA) Accelerated depreciation 1 Jan 2009 onwards	Businesses and industry (especially farms, mines, factories)	Yes, if coupled with renewable energy system	Businesses can claim a specific deduction against taxable income when investing in renewable energy technologies and associated storage systems. Eligibility criteria: South African taxpayers must own the renewable energy asset, which is used for the purposes of trade. Hydropower < 30 MW. Tax deduction benefit ≤ 1 MW solar photovoltaic (PV): 100% first-year deduction. All other qualifying renewables: 50/30/20% over first 3 years
C	Section 12U of ITA Capital Allowance for Infrastructure 1 Jan 2016 onwards	Renewable energy power generation projects	Maybe, if coupled with renewable energy system	Eligibility criteria: As for Section 12B, but capacity >5 MW (and for hydropower must still be <30 MW) Tax deduction benefit Enables 100% deduction of capital costs incurred for roads, fencing, and support structures related to renewable power generation (used for purposes of trade), in the year of expenditure.
D	Renewable energy premium deduction Linked to Carbon Tax 2019 onwards	Licensed electricity generators	No	A deduction against carbon tax liability based on the amount of renewable energy purchased. The Minister of Finance sets the premium rates (ZAR/kWh) for the eligible renewable energy technologies.

	Incentive	Primary beneficiary or target	Can energy storage qualify?	Description
E	Section 12BA of ITA 1 Mar 2023 to 28 Feb 2025	Business registered companies, sole proprietors and other taxpayers conducting business activities.	Yes, if coupled with renewable energy system Depends on how it is used	Additional incentive for private investment in renewable energy. Temporary Expansion of Section 12B of ITA. Eligibility criteria: As for Section 12B, but in addition, only new and unused assets that are bought into use for the first time between 1 March 2023 and 1 March 2025 qualify. Does not apply to the government grant proportion of any asset funding. For energy storage, the South African Revenue Service will assess each case. The storage must be linked to the new renewables asset to qualify. Tax deduction benefit One-off, upfront deduction of 125% of capital cost incurred for renewable energy assets (and support structures), with no size threshold.
F	Solar Energy Tax Credit (in Section 6C of ITA) 1 Mar 2023- 29 Feb 2024	Mainly households (Individual taxpayers)	No	25% rebate (up to ZAR 15,000) per individual on the cost of PV panels for residential installations (excludes inverters, batteries). Mechanism: Personal income tax is offset. Eligibility criteria: South African taxpayers must own the renewable energy asset, but it is not used for income production (in contrast to Section 12B of ITA).

Risk reduction subsidy

G	Energy Bounce Back Loan Guarantee Scheme 8 Aug 2023 to 30 Aug 2024 (or 1 GW solar photovoltaic capacity supported, whichever came first).	Households and small and medium-sized enterprises (SMEs) investing in rooftop solar and energy service companies (ESCOs) that are contracted.	Yes	Government guarantee: First-loss 20% (South Africa Reserve Bank administered), participating lenders governed remaining 80% of risk. Provided loan guarantees and preferential lending terms to households, SMEs and ESCOs to finance the same category of assets (e.g., rooftop solar, batteries, inverters). Cap: One loan of up to ZAR 300 000 per household, ZAR 10 million for SME, ZAR 100 million per ESCO. While separate from sections of ITA, the scheme may be the enabling factor that allows businesses or households to acquire the assets, which can then be used to claim against Section 12B or the rooftop solar rebate.
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Notes: Sections 12B, BA, and U all apply to renewable energy sources of 1) wind, 2) solar (PV or concentrated solar power), 3) hydropower, 4) biomass from organic waste, landfill gas, or plant material.

Section 12N of ITA (1 Jan 2013 onwards) is enabling legislation that facilitates capital allowances under specified sections of the ITA (like Section 12B) when a taxpayer has made improvements to land or buildings that they do not own, but hold the right to use or occupy (South African Revenue Service, 2025).

Sources for each subsidy: #A (Department of Energy, 2015; van Diemen, 2025); #B, C, E (South African Revenue Service, 2024b); #D (National Treasury, 2022c; The Presidency, 2019); #F (South African Revenue Service, 2024c); #G (National Treasury, 2023d).

Table 5. Publicly available data on the values of subsidies specific to renewable energy from FY 2018 to FY 2025

	Incentive	Publicly available data on the value or estimation
A	Solar water heater programme	The last mention of subsidies to the program in the <i>Estimates of National Expenditure</i> was in FY 2018 for ZAR 235.5 million . However, after the project budget was cut, solar water geysers in storage accumulated a storage fee of ZAR 325 million over 6 years to 2024, classed as fruitless and wasteful expenditure.
B	Section 12B of ITA	The value that businesses have claimed has not been made public by South African Revenue Service, and National Treasury has not yet published tax expenditure estimates for this measure.
C	Section 12U of ITA	As for Section 12B
D	Renewable energy premium deduction	The amounts that electricity generators have claimed for this deduction are not publicly available. For Eskom, it could be calculated if sufficient disaggregated data on renewable energy purchases by technology can be acquired from Eskom Data Portal (their public reports are aggregated across all independent power producers). The premium rates (ZAR/kWh per technology type) were established by the Minister of Finance in 2021. In this report, we estimate overall values of the carbon tax exemptions, which would include deductions for this measure, so we have not attempted to calculate it separately.
E	Section 12BA of ITA	For 2 years. The <i>Budget Review 2024</i> lists the projected impact of this tax proposal on government revenue for FY 2024 is ZAR 5 billion , but there is no mention of the second-year estimated impact in <i>Budget Review 2025</i> .
F	Solar Energy Tax Credit	Only for 1 year, and the <i>Budget Review 2024</i> lists the projected impact of the tax proposal on government revenue for FY 2024 as ZAR 4 billion .

Risk reduction subsidies

G	Energy Bounce Back Loan Guarantee Scheme	In 2023, government issued a guarantee of up to ZAR 8 billion to compensate the South African Reserve Bank in case of any losses under the scheme. Details on the usage of the guarantee are not yet public.
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Sources for each subsidy: #A (National Treasury, 2021c; van Diemen, 2025); #B, C Research interviews; #D (National Treasury, 2021d), research interviews; #E, F (National Treasury, 2024b); #G (South African Reserve Bank, 2024), research interviews.

Table 6. Non-exhaustive list of general subsidies that could apply to energy projects in South Africa between FY 2018 and FY 2025

	Incentive	Primary beneficiary or target	Details
I	Section 11D of ITA Research and Development 2 Nov 2006 onwards	Research	Allows 150% deduction on qualifying research and development costs (operational) and an accelerated depreciation over 3 years (50/30/20%) for capital expenditure for machinery or plant used for research and development. All industries, but can benefit renewable energy technology innovation. Pre-approval from the Department of Science and Innovation is required.
II	Section 12I of ITA Industrial Policy Projects 1 Aug 2009 to 31 March 2020	Industrial manufacturing	Industrial manufacturing projects (>ZAR 50 million since 2015) receive additional capital allowances: 75%-100% in special economic zones, or 35%-55% elsewhere. Not for power generation projects, but renewable energy manufacturing projects can claim Pre-approval from the Department of Trade and Industry.
III	Section 12J of ITA Venture Capital 1 July 2009 - 30 June 2021	Companies and individuals	Provided a 100% tax deduction on the cost of shares for the holder of shares issued by a venture capital company. Investors in renewables projects set up as venture capital companies may have been able to apply.
IV	The Green Fund 2012 onwards	All green economy actors	A fund to provide catalytic finance to projects that promote a transition to a green economy. Managed by the Development Bank of Southern Africa. National Treasury allocated an initial amount of ZAR 1.1 billion.

Notes: Section 12L for energy efficiency is already covered in Table 1.

Sources for each subsidy: #I: (National Treasury & Department of Science and Innovation, 2021; South African Revenue Service, 2024e); #II: (South African Revenue Service, 2021); #III (South African Revenue Service, 2020); #IV: (Development Bank of Southern Africa, n.d.; Mohamed et al., 2014).

Definition of Energy Subsidies

This section has descriptions of the subsidies #1-18 in Tables 1, 2, and 3. The measures #A-G and #I-IV are described in Tables 4 and 6.

We apply the definition of a subsidy from Article 1 of the Agreement on Subsidies and Countervailing Measures under the World Trade Organization (World Trade Organization, 1994) to South Africa at the national level, and specific to the energy sector.

So, for this work, an energy subsidy is deemed to exist if:

1. The South African government provides a financial contribution where:
 - i. there is a direct transfer of funds (e.g., grants, equity infusion)
 - ii. there is potential direct transfer of funds or liabilities (e.g., loan guarantees)
 - iii. government revenue is foregone or not collected (e.g., tax exemptions)
 - iv. government provides goods or services, or purchases goods
 - v. government pays a funding mechanism or private body to carry out functions i) to iv) that would normally be done by the government.

or

2. There is any form of income or price support

and

3. A benefit is conferred to an energy producer or consumer.

While this World Trade Organization definition is used to identify the energy subsidies, we then group them by energy carrier (e.g., liquid fuels, electricity) or mechanism (e.g., carbon tax exemption) for the analysis.

In the case of energy, subsidies can also be classified as benefiting production (e.g., an electricity generator) or consumption (e.g., a person buying fuel for their car).

This definition is purely to identify if a measure can be counted as a subsidy; it does not make any judgment on whether the subsidy is inefficient or if it should be reformed.

For additional information on subsidies and government support, see the Methodology Section of the Fossil Fuel Subsidy Tracker, <https://fossilfuelsubsidytracker.org/methodology/>.

Alignment With the National Treasury Budget Taxonomy

For South Africa's public finance reporting, measures included in this report as subsidies under the World Trade Organization definition are recorded under different annual documents produced by National Treasury:

1. **Direct grants, transfers, and subsidies** are recorded under Transfers and Subsidies in the Estimates of National Expenditure.
2. **Tax expenditures** (foregone revenue such as VAT exemptions or income-tax deductions) are reported separately through the Budget Review.

3. **Local government equitable share allocations** are detailed in the Division of Revenue Bill.
4. **Contingent liabilities** (such as guarantees or debt-relief arrangements) are disclosed under the Fiscal Risk Statement, which is an annexure to the Medium-Term Budget Policy Statement. These numbers are also included in the Budget Review.

Descriptions of Energy Subsidies

Liquid Fuels

Zero-rated VAT for Sales of Petrol, Diesel, and Illuminating Paraffin (#1)

As per the Value-Added Tax Act of 1991, petrol (gasoline), diesel fuel, and illuminating paraffin (kerosene) are not subject to the VAT normally levied on sales of most products in South Africa. Technically, zero-rated VAT is not the same as being “VAT exempt”: it applies to sales that are taxed at 0%, while vendors may still claim input VAT on purchases related to those sales. Since FY 2014, the tax expenditure formula has assumed that 20% of petrol sales and 70% of diesel sales are for business purposes by VAT vendors, and would have qualified for VAT input credits (National Treasury, 2021a). For the periods in this inventory, the VAT rate was 14% for FY 2018, and 15% from FY 2019 to FY 2025. This measure is reported as a tax expenditure in South Africa’s national budget (National Treasury, 2025a). At the time this report was published, National Treasury had not released results for FY 2024 for this measure. While fuel sales increased in FY 2024, the associated increase in VAT zero-rating was partly offset by a reduction in the average price of fuels. To be conservative, we have used the FY 2023 value for FY 2024 and FY 2025.

Refund of Fuel Levy and Road Accident Fund Levy for Diesel Consumed in Specific Sectors (#2)

The fuel levy is directed to the National Revenue Fund, while the RAF levy goes to the RAF, compensating those injured in road traffic accidents. Since 2000, VAT-registered consumers of diesel in specific primary production sectors can be refunded a certain percentage of the fuel levy and RAF levy. These sectors (each with its own eligible refund percentages) currently include land (agriculture, forestry, mining), offshore (commercial fishing, coasting vessels, offshore mining, sea rescue and coastal patrol vessels, marine industry research vessels, servicing of fibre optic telecommunications cables), harbour vessels, rail freight transport, and peak-electricity-generating plants with a capacity exceeding 200 MW per plant (National Treasury, 2017b). From 1 April 2023 to 31 March 2025, this was extended to the manufacturing of foodstuffs to limit the impact of power cuts on food prices (National Treasury, 2023b). At the time this report was published, National Treasury had released results for levy collections, but not the refunds for FY 2024 and FY 2025. To estimate the value for FY 2024 and FY 2025, the average of the ratio of levy collections to levy refunds for the previous 2 years was applied to the levy collection values for FY 2024 and FY 2025.

GFL Freeze and Temporary Reduction (#3)

From 1 April 2022 onwards (including in the 2024/25 national budget), there has been no increase in the GFL or the RAF levy, whereas there is usually a yearly increase given in ZAR per litre of fuel. This freeze is intended to help with economic recovery. In addition, there was a temporary 4-month reduction in the GFL to provide relief from rising fuel prices following the Russia/Ukraine conflict. From 6 April 2022 to 6 July 2022, the GFL was reduced by ZAR 1.50 per litre of fuel, and from 7 July 2022 to 2 August 2022, the GFL was reduced by ZAR 0.75 per litre (Department of Mineral Resources and Energy, 2022).

Petroleum Agency South Africa: Subsidies on products and production (#4)

The Petroleum Agency South Africa receives a Medium-Term Expenditure Framework allocation from National Treasury via the Department of Mineral Resources and Energy to fund operations and special projects, such as the shale gas research (Petroleum Agency South Africa, 2024). The Petroleum Agency South Africa and National Treasury documents do not provide further information on the nature of this support.

Government Grants for PetroSA Training (#5)

The PetroSA is a state-owned company (Schedule 2 major public entity) within the Central Energy Fund. The PetroSA annual reports only provide that “PetroSA receives a government grant for training on projects. In terms of the signed agreement, PetroSA will receive a refund based on the cost incurred in order to provide specialised training on the project” (PetroSA, 2020). No further details of training or project are included.

Electricity

Free Basic Energy Services (#6)

The **local government equitable share** is a transfer from national government to municipalities, which includes funding for municipalities to deliver free basic services to indigent households. Each year, the Division of Revenue Bill from National Treasury includes how many households are deemed to be eligible (i.e., below the poverty line), and how the total allocation for basic services is split between energy, water, sanitation, and refuse removal (National Treasury, 2023c). Within the provision for free energy (equivalent to 50 kWh per month), this takes the form of Free Basic Electricity (since 2003) for households with a grid connection, or Free Basic Alternative Energy (since 2007) for those without a grid connection. Electricity alternatives include paraffin, liquefied petroleum gas, coal, and bio-ethanol gel (Department of Mineral Resources and Energy, 2007), but the majority of energy services are provided by electricity.

The current targeting of indigent households relies on data from 2011. When this is updated in 2026, there may be an upward revision of the requirement for free basic energy services (research interviews).

Integrated National Electrification Programme (INEP) (#7)

Since 2001, the INEP has been under the Department of Mineral Resources and Energy (then the Department of Energy). The stated goal of the programme is to contribute to reaching universal access to electricity in South Africa, through bulk grid infrastructure projects, household connections, and non-grid solutions for remote areas (Department of Mineral Resources and Energy, n.d.). In the annual Estimates of National Expenditure from National Treasury, the grants from the national budget for INEP are split between those for municipalities and Eskom, as both are involved in the reticulation and distribution of electricity to households. Grid extension is not always the most cost-effective way of expanding electricity access, and since FY 2024, the INEP has expanded to include rooftop solar photovoltaics where appropriate (research interviews).

Energy Efficiency and Demand-Side Management Grant for Selected Municipalities (#8)

This grant provides selected municipalities with funds to implement energy-efficient municipal infrastructure projects, including public lighting. The grant can also be used to help plan and prepare for a market for private investment in the large-scale retrofitting of municipal infrastructure, where the repayment will be achieved through savings on energy costs. Municipalities can use 15% of the grant to strengthen the market for energy companies offering retrofitting services (National Treasury, 2024a). The majority of this grant is used for electricity.

Smart Meters Grant (#9)

This new conditional grant was introduced in 2024, with allocation of ZAR 500 million in FY 2025, ZAR 650 million in FY 2026, and ZAR 800 million in FY 2027. The baseline for this grant (ZAR 2 billion) was reprioritized from the INEP municipal grant. The intention is to initially fund the rollout of smart prepaid meters for municipalities that are already part of the municipal debt to Eskom programme. Smart meters can help municipalities manage electricity revenue collection and the integration of renewable energy sources. It is expected that the grant will expand to more municipalities.

Eskom Bailouts (#10)

In 2008, the state-owned electricity utility Eskom first had to initiate rotational power cuts when electricity supply could not meet demand. Since 2008, operational performance declined, and debt increased to an unsustainable amount of ZAR 412 billion by FY 2024 (Eskom, 2024b). Between 2008 and 2024, Eskom received state financial support in 10 out of 16 years (National Treasury, 2020a, 2025a) and in 2023 an Eskom debt-relief arrangement was drawn up to provide ZAR 254 billion over 3 years, with conditions Eskom must meet. Specifically, the 2023 package states that it is a “debt-to-equity conversion” that will be “settled in Eskom shares rather than cash” (National Treasury, 2023a).

Eskom Bailouts as a Subsidy

By Eskom bailouts, we refer to the amounts transferred to Eskom from government that are converted to equity.

We have included these bailouts (both pre- and post-debt-relief arrangement from 2023) as subsidies because:

- It is a government transfer that confer a benefit, consistent with the World Trade Organization definition we use in this report.
- The direct transfers to Eskom are converted to equity. As such, they do not function as a loan that will be paid back to government, nor do they function as a guarantee, nor do we expect that Eskom will deliver returns to government on these amounts, such as dividends. Therefore, we consider the entirety of the transfer as the benefit conferred.

Within the World Trade Organization definition, we use Article 14 a), which specifically covers government provision of equity capital and under what circumstances it is considered to confer a benefit.

We recognize that other groups, including National Treasury, may view Eskom bailouts more broadly as “government support.” This would not change the analysis in the digital story, as a comparison of “government support for electricity” rather than “electricity subsidies” would include the same measures and values.

For the Eskom debt-relief arrangement, covering FY 2024 to FY 2026, National Government needed to increase its public sector borrowing, so that it could make the transfers to Eskom. As such, amounts equivalent to the Eskom bailouts in these years are also included under the government’s list of contingent liabilities (National Treasury, 2025a).

Other

South African Nuclear Energy Corporation (NECSA) (#11)

NECSA derives its mandate from the Nuclear Energy Act of 1999 and includes activities such as manufacturing power generation components and decommissioning/decontamination of nuclear facilities. NECSA is also positioning itself to support new-build nuclear power plants in South Africa (Campbell, 2025). Although a significant proportion of activities is related to the production of medical radioisotopes (South African Nuclear Energy Corporation, 2024), this side of NECSA has been profitable in recent years, and so the subsidies are expected to cover the other NECSA activities (research interviews). In the Estimates of National Expenditure for 2025 (as with other previous years), the support to NECSA is reported under “transfers and subsidies,” but further details are not provided (National Treasury, 2025b).

Fiscal Support for Water Transportation for Eskom Power Stations and Sasol Operations (#12)

The Trans-Caledon Tunnel Authority is a state-owned entity that receives direct transfers from the Department of Water and Sanitation to support projects whose key users are Eskom power stations and Sasol’s petrochemical installations. Three projects are included in this measure: 1) Vaal River Eastern Subsystem Project, to convey water from the Vaal Dam to the

Secunda area and Sasol's operations; 2) the Komati Water System Augmentation Project, which forms part of the Vaal River Eastern Subsystem and aims to convey water to Eskom's power stations in Mpumalanga. 3) The Mokolo-Crocodile River (West) Water Augmentation Project, Phase 1 and 2A, that will supply water to the Lephalale area (to develop the Waterberg Coalfields) and provide Eskom with a second source of water for its Medupi and Matimba power stations (Trans-Caledon Tunnel Authority, 2024).

South African National Energy Development Institute (#13)

The South African National Energy Development Institute is a state-owned entity (schedule 3A public entity, research-focused) that is mandated to direct, monitor, and conduct applied energy research and development, and has programs that work on cleaner fossil fuels (carbon capture and storage, shale gas feasibility studies), smart grids, energy efficiency, energy systems analysis, and clean energy solutions (National Treasury, 2024e).

Energy Efficiency Tax Incentive (#14)

This is covered by Section 12L of the ITA. It allows a qualifying taxpayer to claim a deduction for most forms of energy efficiency, provided they are related to activities for trade or producing income. The incentive started in November 2013, and since 1 March 2015, the deduction amount on taxable income has been ZAR 0.95/kWh or kWh equivalent of energy efficiency savings (South African Revenue Service, 2024d). Initially planned to end on 31 December 2025, it has been extended to 31 December 2030 (Department of Electricity and Energy, 2025). The majority of energy savings under this incentive have been in manufacturing and mining, with over 75% for non-renewable energy carriers and less than 20% for grid electricity (South African National Energy Development Institute, n.d.).

Carbon Tax Exemption (#15)

A carbon tax was introduced in South Africa via a phased approach, with the first payment due 1 June 2019. Phase 1 has been extended to 31 December 2025 (National Treasury, 2022a). However, there are significant exemptions (based on allowances and thresholds), with Eskom not paying any carbon tax despite being the largest greenhouse gas (GHG) emitter in the country. Eskom does pay an environmental levy on electricity generation from non-renewable sources, which has served a similar role to the carbon tax prior to 2019 and is deducted from our calculations of carbon tax exemptions (see methodology below).

The Carbon Tax Act has a threshold of 10 MW (thermal) for activities in the energy sector, above which the tax is to be paid (The Presidency, 2019): this matches the National GHG Reporting Regulations (Department of Forestry, Fisheries and the Environment, 2022). This effectively means that entities below the threshold are 100% exempt from paying the tax. The Carbon Tax Act also lists the potential tax-free allowances for energy sector activities, of between 60% (basic allowance) and 100% in Phase 1. The allowances are made within a context of specific objectives, such as reducing emissions intensities, addressing concerns about international competitiveness, and to provide some assistance to hard-to-abate sectors. Motivation or merit aside, the allowances result in foregone revenue to government and can be classified as a subsidy as per the Definition of Energy Subsidies section. This classification as a subsidy does not make any judgment on whether the allowances and thresholds are inefficient or require reform.

For Phase 2, National Treasury published a discussion document (National Treasury, 2024c), and these proposals have been reflected in the 2025 draft Taxation Laws Amendment Bill (The Presidency, 2025). This discussion document also provides useful context on the changing landscape of the electricity sector in which the tax will operate.

Government revenue foregone because of these exemptions was estimated on a **monthly basis** (June 2019 to March 2024) as the various reporting periods and changes in carbon tax rate do not line up on a yearly basis. Our estimation was done as follows (all references listed in Table 1):

1. Annual Scope 1 GHG emissions for Eskom and Sasol were taken from Eskom annual reports, along with Sasol performance data and climate change reports. For Sasol, this is just for the energy part of the business and does not include operations outside of South Africa. The total annual energy sector Scope 1 GHG emissions were taken from the 9th National GHG Inventory Report up to 2022, and for years 2023 and 2024 we use 2022 data, as it is the most recent available. These were divided by 12 to give monthly Scope 1 GHG estimates. Subtracting the Eskom and Sasol monthly values from the total energy sector monthly value gives the Scope 1 GHG emissions for “Other Energy” per month.
2. For Eskom, Sasol and Other Energy, a hypothetical monthly payment was calculated by multiplying the Scope 1 GHG emissions by the application carbon tax rate, so this assumes no exemptions.
3. For actual monthly payments: a) Eskom is zero, as Phase 1 committed to electricity price neutrality. b) Sasol yearly payments from climate change reports were divided by 12 for a monthly estimate. c) For Other Energy, the assumption was made that all entities are 60% exempt (which is the minimum basic tax-free allowance for energy sector activities in Phase 1 of the carbon tax). The monthly Other Energy actual payment is thus 40% of the Other Energy hypothetical monthly payment. This is a very conservative assumption, as many entities qualify for much higher exemption levels.
4. For liability reduction: a) Eskom publishes the annual total for the environmental levy on electricity generation from non-renewable sources (electricity levy). This is 3.5c/kWh, and although it is a pass-through cost to the customer, it is paid to the government, therefore reducing the revenue foregone due to the carbon tax exemptions. b) In some years, we could find where Sasol published the amount its carbon liability was reduced by the electricity levy and also carbon offsets.
5. For Eskom, Sasol, and Other Energy, the monthly revenue foregone is the monthly hypothetical payment minus the monthly actual payment minus the liability reduction (where applicable).
6. The sum of all monthly revenue foregone amounts per fiscal year is given in Table 1.

Note: Sasol is eligible for a reduction in carbon tax liability due to payments for carbon credits and the electricity levy. The only publicly available data found for these values was between January 2021 and December 2022. For the government FY 2022, this equates to ZAR 679 million, or 1.5% of our total carbon tax revenue foregone estimate for that fiscal year. For Sasol, this represents 9% of their hypothetical carbon tax liability for government FY 2022. So, while entities in our Other Energy category may also be eligible for such reductions, these will likely be more than offset by our assumption of taking the minimum carbon tax exemption level of 60%. Analysis by the International Monetary Fund for FY 2021/22, based on carbon tax revenue collected, gave an effective carbon tax rate of just ZAR

7 per ton of CO₂e when the headline rate was ZAR 134, indicating overall exemptions in that period of about 95% (Qu et al., 2023).

Government Guarantees (#16-18)

The government guarantees are listed in the national budget under contingent liabilities. These guarantees will result in government expenditure to pay a lender if the borrowing entity is unable to meet a financial obligation (National Treasury, 2024b). So they are a risk that is taken on by government and can be considered a financial contribution in terms of the subsidy definition from Article 1 of the [Agreement on Subsidies and Countervailing Measures](#) under the World Trade Organization. As these subsidies relate to risk, rather than actual grants or revenue foregone, we separate them from the measures listed in Table 1.

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