M&E Framework 30 November 2023

Narrative summary	Objective	Indicator
Wider impact		
Transition to a low-carbon economy and a just, climate resilient society by mid-century	Reduced carbon emissions	NDC targets for GHG emissions
		GHG emissions per capita
		CO2 intensity of national energy consumption compared to national gross domestic product (GDP)
		Share of renewable energy generation (GWh)[1] in South Africa's power system (%)
	Reduced energy use (not electricity)	Energy use for sectors
		Energy consumption saved by energy efficiency measures (GWh/year)
	High levels of employment/ self-employment in Mpumalanga	Levels of unemployment in Mpumalanga stabilised and dropping compared to national average
	Jobs in renewable energy as a share of employment in the energy sector	Jobs in the renewable energy subsector as a percentage of total jobs in the energy sector
	Improved human health	Levels of respiratory illness (asthma etc)
	Improved community livelihoods[2] and reduced vulnerabilities	Multidimensional poverty levels improving in Mpumalanga
JET-IP Impact		
I1 New renewable (RE) energy generation, transmission, distribution infrastructure constructed or upgraded	Total installed capacity of renewable energy plants	Total installed capacity of renewable energy plants under the renewable energy IPP programme (MW)
		Total installed capacity of embedded RE generation (MW)
	Total installed capacity of small-scale renewable energy plants	Total installed capacity of solar PV[3]
	Transmission line upgraded or extended	Km
	Grid-support infrastructure projects developed (transformers and substations)	Number
	Distribution infrastructure upgraded or extended	Km
	Energy storage installed	Energy rating (MWh) and power rating (MW) of installed energy storage
	EV charging stations installed	Number
I2 Just transition interventions implemented demonstrating spread of benefits	Jobs created or maintained from JET IP investments	Number of non-permanent direct full-time equivalent (FTE) jobs created or maintained during construction
		Number of direct FTE jobs created or maintained after construction
		Number of FTE staff employed to implement residential solar projects
		Number of FTE staff employed in supply chains for renewable energy
		Number of new FTE staff employed in tourism, transport, and agriculture
	Households benefitting from livelihoods support in Mpumalanga's coal districts	Number of households benefitting from livelihoods support in Mpumalanga's coal districts
	Coal workers have sustained income and livelihoods	Number and % of coal workers transitioned (retired, job numbers, and job types)
		Number and % of employees of retired coal plants that have access to sustained income (gender disaggregated)[4]

[1] Not installed capacity but actual generation

[2] Bearing in mind the human, social, natural, physical and financial capital, so a wider perception of wellbeing than an income lens

[3] Note can also measure actual generation (PSPV IEI1)

[4] ACT IP indicator and target

Narrative summary	Objective	Indicator
	Population in transition areas benefitting from JET-IP investments	% of Mpumalanga population benefitting from JET-IP investments
	Effective government services in affected communities, notably in Mpumalanga	% of households in Mpumalanga with working water services
		% of households in Mpumalanga accessing reliable electricity
		% of people qualified for Free Basic Electricity (FBE) actually receiving
	Level of engagement and participation of local communities affected by the transition interventions.	Public feel engaged in policy and collective action to implement just transition
I3 GHG emissions reduced or avoided from (tCO2eq)[5]	Emissions reduced or avoided by coal power plant closures	tCO2eq per annum
	Emissions reduced or avoided by sector interventions (tCO2eq per annum)	Emissions reduced or avoided from RE electricity generation
		Emissions reduced/avoided by NEVs (public and private)
		Emissions reduced through Transnet road-to-rail programme
		Emissions reduced or avoided from more sustainable agriculture
	Electricity saved Energy Efficiency and Demand Side Management programme	Emissions reduced or avoided through the Municipal Energy Efficiency and Demand-side Management programme
I4 Increased economic diversification and inclusive growth	Economic diversification and development of new economy value chains in the country, stimulated by JET-IP investment	Value of manufacturing in SA of solar PV systems (PV cells, batteries and inverters)
		Number of EVs manufactured in South Africa (Buses, taxis, cars)
	Growth in the number and contribution of SMEs to the Mpumalanga economy	Numbers of SMMEs
		Employment in SMMEs (FTE)
I5 Social, Economic, and Environmental Co-Benefits[6]	Reduction in air pollution, water pollution, land degradation, improved ecosystems and biodiversity	Hectares of land affected by coal mining rehabilitated
		Land redistributed for economic diversification
		Air pollution (PM^{10} concentrations)
		Water made available from coal plant closures (million litres)
Medium-term outcomes[7]		
MTO1. Finance for JET-IP being mobilised, unlocked and spent rapidly and effectively	Funds spent on JET-IP-related investments/ activities	Grant funds spent (Rand)
		Public sector budgets allocated (Rand)
		Concessional loans deployed[8] (Rand)
		DFI commercial loans (Rand)
		Commercial finance deployed (Rand)
MTO2. Widespread endorsement by SA and international stakeholders of the JET-IP	Endorsement of the JET-IP implementation plan across the SA government	All key government stakeholders (Presidency, DFFE, DMRE, DPE, PCC, DTIC, IDC, Eskom) endorse the JET-IP implementation plan
	Endorsement by unions and other civil society organisations (will need to define more clearly)	Public expressions of support for the JET-IP implementation plan by key unions and civil society organisations
	Additional partners support the JET-IP	Additional partners joining the IPG to support the JET-IP
MTO3. Government increasingly able to	Coherent plans being implemented for JET-IP portfolios	All portfolio plans being implemented

[5] JET IP mentions energy, industrial and transport sectors
[6] Consider policies which impact on co-benefits
[7] Changes in behaviour and performance
[8] Substantially more favourable than what National Treasury can borrow on the capital markets

Narrative summary	Objective	Indicator
manage and deliver just transition	Government institutions proactively leading JET IP initiatives Mpumalanga province leading a coherent programme to support Just Transition effectively	Government institutions initiate, drive and oversee key programmes or projects that directly align with the goals and principles of the JET-IP
		Mpumalanga Forum and Secretariat operating effectively to lead JT work in the province.
		Pipeline of interventions in Mpumalanga being driven effectively
MTO4. Enhanced skills system working effectively to support the energy transition and economic diversification	Skills System is effectively adjusting and responding to changing JET skills needs	Number of workers in all the priority sectors (energy, supply chains, tourism, agriculture) reskilled, upskilled, and / or retrained*[9]
	Skills Development Zones (SDZs) operating effectively supporting skills development, community liaison, and links between institutions	No of people trained absorbed into employment
Short-term outcomes[10]		
STO1. Agreed transparent funding flows for identified JET-IP portfolio	Instrument, disbursement channel and receiving programme within focal areas agreed	Agreed for electricity infrastructure
		Agreed for ACT IP
		Agreed for Mpumalanga
		Agreed for NEVs
		Agreed for Green Hydrogen
		Agreed for Skills
		Agreed for Municipalities
		Agreed for energy efficiency
		Agreed for RE industrialisation
		Agreed for road to rail
STO2 Coordination mechanisms supporting the JET-IP effectively	Coordination mechanisms are working effectively	IMC and Steercomm meeting and endorsing the work
		National JET Skills planning forum operating
		Skills Development Zones operating
		NEV Council operating
		Municipal JET Council operating
		Green Hydrogen Council operating
		Mpumalanga JT Forum operating
		ACT-IP steering mechanism
		Eskom Transmission Company is implementing the Transmission Dev Plan
STO3 Confirmed portfolio of JT interventions for Mpumalanga agreed	Confirmed portfolio of JT interventions agreed which empower local stakeholders (procedural justice)	Emergent models of viable JT interventions being tested
		Number and value of just transition interventions underway (repurposing of power stations, economic diversification, establishment of Mpumalanga SDZ, land and water regeneration)
		Extent of community involvement and ownership of community-based JT interventions
STO4 Financing Facility helping development of viable projects and pipeline being supported actively	Financing Facility operating to support project development and identification of funders	Number and value of projects supported to project approval stage
		Disaggregated numbers of beneficiaries from projects supported (gender, age, race..)
	Potential projects are progressed as fast as possible while maintaining quality	Trends on planned/approved/ disbursed JET-IP projects
STO5 Demonstrated problem-solving	Problems resolved to which PMU have contributed	Model of funding of transmission agreed
		Viable approach agreed to implementing ACT-IP
		Model agreed for funding distribution infrastructure

[9] ACT IP has numbers of people trained in the renewable energy sector, medium- and high-skilled green jobs, STEM education and relevant vocational training through JET-IP (gender disaggregated)
[10] Changes in capacity and systems

Narrative summary	Objective	Indicator
approaches to overcome bottlenecks		Local DFI support agreed for electrifying public transport and logistics
		Viable approach agreed to address integration of skills anticipation, skills development and utilisation
		Viable set of impactful programmes agreed with stakeholders for Mpumalanga
STO6 Sufficient compliant projects/ progs being implemented to demonstrate this way of working	JET-IP interventions underway in each focus area	Key catalytic projects underway in each portfolio (projects to be defined)
STO7 M&E system supporting transparent reporting on progress and performance, increasing stakeholder knowledge and awareness	M&E informing all stakeholders and informing decision-making	Transparent reporting happening on outcomes and impacts
		Monitoring reports and evaluations informing learning and decision-making