

# CESA INFRASTRUCTURE INDABA

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- Declaration of State of Disaster on Electricity Crises and Short-term Interventions





# Strategic Direction

# STRATEGIC DIRECTION OF THE ORGANIZATION

## Energy Transition Policy

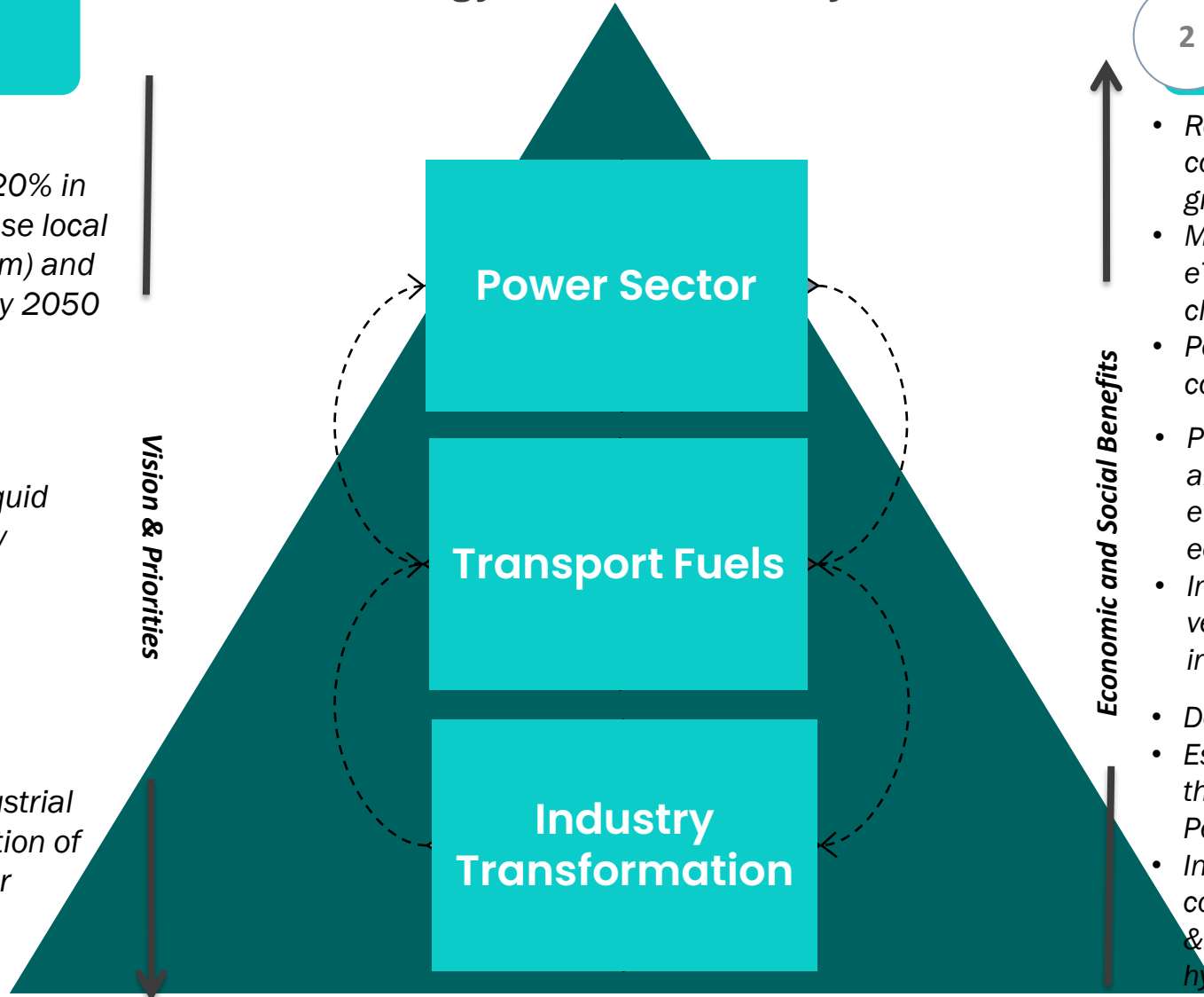
### 1 Inputs

Reduce reliance on Eskom by 20% in 2025 (short-term target), increase local generation to 40% (medium-term) and achieve energy independence by 2050

Implementing reforms in the liquid fuel industry to allow speedy transport transition

Strategic reforms in new industrial development and transformation of the manufacturing sector

*Vision & Priorities*



### 2 Outputs

- Restore energy security using IPPs and contribute meaningfully to the economic growth of the city
- Mitigate at least stage 4 loadshedding in eThekweni by building power plants closer to load areas
- Policy certainty and increased investor confidence
- Promote investment in Oil and Gas and Offshore Wind along the coast of eThekweni to respond to oceans economy
- Increase the uptake of electric vehicles and hydrogen powered cars in eThekweni
- Develop Regional Hydrogen Strategy
- Establishment of hydrogen hubs in the region including Richards Bay Port
- Increase hydrogen production and consumption in petrochemical, pulp & paper, cement, iron smelters and hydrogen gas exports

*Economic and Social Benefits*

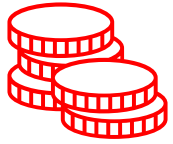


# Municipal IPP Procurement Programme

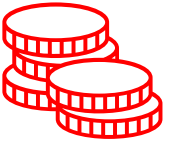
# TRANSFORMATIONAL PORTFOLIO MIX OF POWER SOURCES

Low carbon sources: 55%

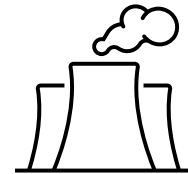
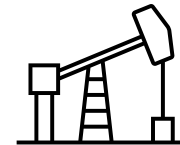
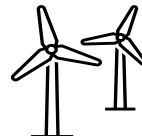
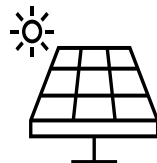
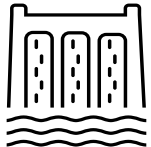
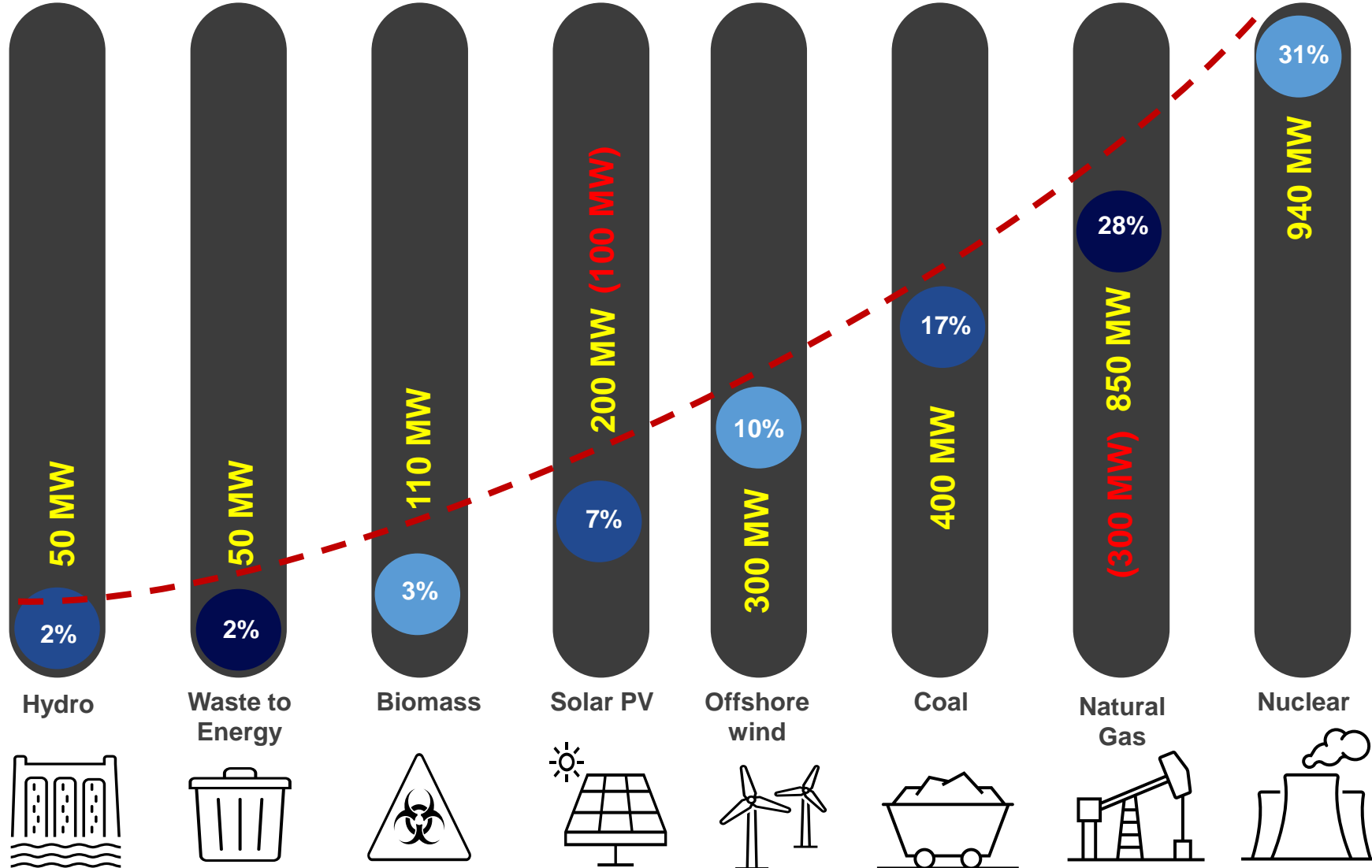
Fossil fuels: 45%



Project Total investment  
**R10bn**  
(~US\$540 million)  
by 2023

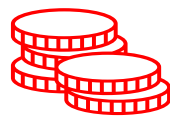


Programme Total investment  
**R324bn**  
(~US\$17.5 bn) by 2035








# MUNICIPAL INDEPENDENT POWER PRODUCER PROCUREMENT PROGRAMME (MIPPPP)

Programme total investment  
**R324bn**  
 (~US\$18.2 billion)

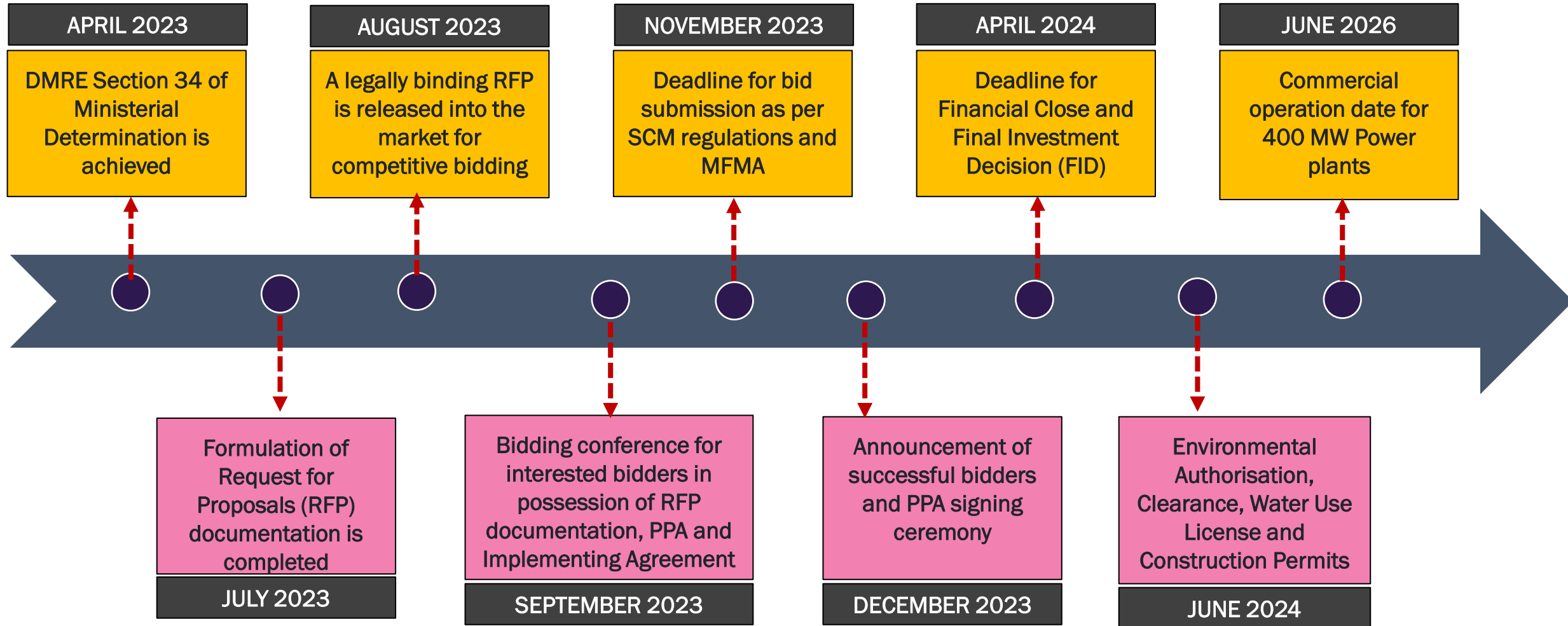


- ✔ Owned by eThekweni Municipality
- ✘ Owned through Public Private Partnership

									
		Build	Operate	Own	Maintain	Status	Capacity (MW)	City's role	Commercial Operation
Short, medium and long-term projects	Ushaka Marine World – Solar PV Power Plant	✘	✘	✔	✘	Feasibility	5.00	Project owner	Online by 2024
	Durban ICC – Rooftop Solar PV Power Plant	✘	✘	✔	✘	Feasibility	2.00	Project owner	Online by 2024
	Solar PV Utility Scale Power Plant – Batch 1	✘	✘	✘	✘	In-procurement	100.00	Offtaker	Online by 2024
	Combined Cycle Gas Power Plant – Batch 1	✘	✘	✘	✘	In-procurement	300.00	Offtaker	Online by 2026
	Gas Peaking Power Plant – Batch 2	✘	✘	✘	✘	Planning	50.00	Offtaker	Online by 2026
	Pumped Hydropower Scheme – Batch 2	✘	✘	✘	✘	Planning	50.00	Offtaker	Online by 2026
	Waste to Energy Power Plant – Batch 2	✘	✘	✔	✘	Planning	50.00	Project owner	Online by 2027
	Biomass Conversion Power Plant – Batch 3	✘	✘	✘	✘	Planning	50.00	Offtaker	Online by 2027
	Solar PV Utility Scale Power Plant – Batch 4	✘	✘	✘	✘	Planning	100.00	Offtaker	Online by 2028
	Combined Cycle Gas Power Plant – Batch 5	✘	✘	✘	✘	Planning	550.00	Offtaker	Online by 2028
	Offshore Wind Power Plant – Batch 6	✘	✘	✘	✘	Planning	100.00	Offtaker	Online by 2028
	Coal Power Plant with CCS – Batch 7	✘	✘	✘	✘	Planning	400.00	Offtaker	Online by 2028
	Biomass Conversion Power Plant – Batch 8	✘	✘	✘	✘	Planning	60.00	Offtaker	Online by 2029
	Offshore Wind Power Plant – Batch 9	✘	✘	✘	✘	Planning	200.00	Offtaker	Online by 2029
	Gas Peaking Power Plant – Batch 10	✘	✘	✘	✘	Planning	50.00	Offtaker	Online by 2029
Small Modular Reactor Nuclear Power Plant	✘	✘	✘	✘	Planning	940.00	Offtaker	Online by 2035	



# IMPLEMENTATION PROCESS OF BATCH #1 OF MIPPPP







# State of Disaster on Electricity Crises



# SHORT-TERM INTERVENTIONS TO REDUCE THE IMPACT OF ENERGY CRISES

1. EThekweni Municipality welcome the State of Disaster on Electricity Crises and Regulations that have been developed to accelerate procurement in new capacity in line with Presidential Energy Action Plan;
2. The release of 400 MW Request for Proposal (RFP) into the market is planned for August 2023 subject to TAC procurement being finalized in March 2023 using NT pool of TAs. This will create approximately 8000 job opportunities through Public Private Partnership (PPP) model. The Municipality is currently reviewing the new regulations of the Disaster Management Act as the way of optimizing the procurement process; and
3. The Municipality has further established the Business Continuity Emergency Procurement Programme (BCEPP) which is envisaged to rollout Solar PV installations on key municipal strategic operations. This include water pump stations, water purifications plants and reservoirs, hospitals and clinics, municipal buildings and malls that are still connected to the city grid network. The municipality is planning to use \$160 000 of grant funding from C40 to quantify funding required on key municipal strategic operations.
4. EThekweni Municipality is planning to improve the energy performance of all public buildings and infrastructure, and reduce greenhouse gas emissions by promoting, identifying, financing, and implementing energy efficiency and demand-side management (EEDSM) measures including small-scale renewable energy in its infrastructure through Energy Efficiency in Public Buildings and Infrastructure Programme (EEPBIP).