



## REQUEST FOR INFORMATION (RFI): PROVISIONS OF MASS BURN FACILITY SERVICES

### TO ASSESS THE MARKET FOR CAPACITY, CONTRACT PREFERENCES AND PROVISIONS OF MASS BURN FACILITY SERVICES WITHIN THE ENERGY DIRECTORATE OF CITY OF CAPE TOWN

#### 1. Purpose

- 1.1. The purpose of this Request for Information (RFI) is to implement a fair and transparent process for obtaining information on mass burn facilities to possibly support the City of Cape Town (CCT) in line with its strategic objectives, business needs as well as its legislative and regulatory context.
- 1.2. The information obtained from responses to this RFI will be assessed and used by the City in the planning of future initiatives.
- 1.3. Interested parties wishing to respond to this RFI should read this document carefully and follow the guidelines for responding.
- 1.4. **Please note that this RFI, the questions contained herein and the responses thereto are unrelated to Tender 151S/2025/26, being the City of Cape Town's Waste to Energy Independent Power Producer (IPP) program for embedded or wheeled generation for a period of 20 years.**

#### 2. Background

- 2.1. The CCT generates electricity, purchases electricity from suppliers, manages the municipal distribution grid, and sells electricity to customers in its licensed area of supply. The CCT is the distribution service authority for the full municipal area. However, the City and Eskom are both electricity service providers in their respective distribution areas.
- 2.2. Load-shedding - instituted intermittently since 2008 – together with significant increases in bulk electricity costs over the last number of years, have had a detrimental effect on both the CCT's economy and its consumers. In response, the CCT has committed to enhancing energy security through various interventions, including exploring own-build and IPP procurement approaches across various scales.
- 2.3. The rapidly changing energy landscape reinforces the importance of exploring various alternative energy solutions. The CCT Energy Strategy 2050 outlines *Commitment 1: Harnessing New Energy Supply*, while the CCT Waste Strategy 2025 sets out *Commitment 2: Minimising*

*Waste to Landfill*, providing a strategic foundation for the City's response to the evolving energy landscape.

2.4. The City intends to use this RFI to develop the scope for the feasibility assessment focused on a mass burn facility in Cape Town. This type of facility will reduce the amount of waste to landfill and generate energy from this waste.

### **3. Request for Information**

3.1. This RFI is not a request for proposal, request for quotation, offer or invitation for bid, nor does its issuance restrict the City of Cape Town in its eventual implementation activities.

3.2. This RFI and the response thereto does not create or grant any rights.

3.3. The information obtained from responses to this RFI will be used by the City in the planning of future initiatives to possibly build a mass burn facility in Cape Town.

3.4. To fully comprehend the information contained within a response to this RFI, the City may request the respondent to provide further clarification and/or material relevant to the RFI. Such requests will take the form of brief verbal communication by telephone, written communication, electronic communication, or a presentation to the relevant City officials. It is therefore important that respondents provide accurate and honest information in their responses.

3.5. The City is not liable for any costs incurred by respondents to prepare and submit a response to this RFI.

3.6. All submissions will be evaluated in compliance with Municipal legislation and regulations as well as the City of Cape Town's Supply Chain Management Policy.

3.7. No feedback on the submissions will be provided by the City to respondents. However, the CCT may invite bidders to present their solutions or request further information.

3.8. Based on the information received, the City of Cape Town may or may not embark on further tender processes.

3.9. Respondents are advised that The City reserves the right not to utilise information gathered during the RFI process in order to complete a specification, which is to be put forth for tendering.

### **4. Who Should Respond?**

4.1. This RFI is open to all players in the Energy Industry, however, the City particularly encourages responses from entities with experience in mass burn facilities and other Waste to Energy (WtE) projects, in various stages of such a facility's design/lifecycle.

## 5. Required Information

5.1. For the reasons as outlined above, the CCT would like to pose the following questions to participants:

### 5.1.1. WASTE MARKET ASSESSMENT

5.1.2. Describe your company, its field of expertise and service offerings. i.e. consulting firm, IPP, waste management company, etc.?

5.1.3. Have you been involved in the development of a mass burn facility? If yes, what was this role?

5.1.4. What are the critical risks or challenges you foresee in the development of a mass burn facility in South Africa?

5.1.4.1. What are the potential mitigations for dealing with the risks and challenges? Please provide examples from your company's experience.

5.1.5. What are the possible opportunities in the development of a mass burn facility?

5.1.6. In your experience, please provide an estimated timeline, as related to a mass burn facility, for:

5.1.6.1. Pre-feasibility Study – including technical and economic analysis

5.1.6.2. Feasibility Study – including technical and economic analysis

5.1.6.3. Financial Close/Investment Decision and Capital raise

5.1.6.4. Project construction, commissioning and commercial operation

5.1.7. In your experience, please provide an estimate cost for a mass burn facility (assume brown fields municipal site, 1km access to grid connection, access to municipal waste feedstock, scalable plant from 50MW – 100MW)

5.1.7.1. Pre-feasibility Study – including technical and economic analysis

5.1.7.2. Feasibility Study – including technical and economical analysis

5.1.7.3. Financial Close/Investment Decision and Capital raise

5.1.7.4. Project construction

5.1.7.5. Operations and Maintenance

### 5.1.8. TECHNOLOGY

5.1.9. For a mass burn facility that can deliver 50MW – 100MW energy, what would your company consider the appropriate technology?

5.1.9.1. Who are the leading technology providers for such a facility?

- 5.1.9.2. What is the typical and maximum capacity (in MW) for mass burn facility WtE plants for this technology/technology provider?
- 5.1.9.3. Has your company participated in any projects with this technology provider(s)? If yes, please provide details of projects.
- 5.1.10. What is the waste requirement (ton/day/MW) for the plants mentioned above?
- 5.1.11. Is there any sorting of waste required for this technology?
- 5.1.12. Are there any quality of waste requirements for this technology?
- 5.1.13. Is this technology scalable for future expansion?
- 5.1.14. What is the typical lifespan of this technology for a mass burn facility?
- 5.1.15. What are the byproducts of the process?
- 5.1.16. How would the by-products be treated/disposed/sold/reclaimed/reused?
- 5.1.17. COMMERCIAL, FINANCIAL & REGULATORY INFORMATION
- 5.1.18. In your experience please provide estimated timeline, as related to a mass burn facility, for:
- 5.1.18.1. Pre-feasibility Study – including technical and economic analysis
- 5.1.18.2. Feasibility Study – including technical and economical analysis
- 5.1.18.3. Financial Close/Investment Decision and Capital raise
- 5.1.18.4. Project construction, commissioning and commercial operation
- 5.1.19. In your experience please provide estimate cost for a mass burn facility (assume brown fields municipal site, 1km access to grid connection, access to municipal waste feedstock, scalable plant from 50MW – 100MW)
- 5.1.19.1. Pre-feasibility Study – including technical and economic analysis
- 5.1.19.2. Feasibility Study – including technical and economical analysis
- 5.1.19.3. Financial Close/Investment Decision and Capital raise
- 5.1.19.4. Project construction
- 5.1.19.5. Operations and Maintenance
- 5.1.20. What would be the average and minimum capacity factors for a mass burn facility for the facility to be financially viable?
- 5.1.21. What environmental regulatory conditions are expected for the mass burn facility during the feasibility and design processes, construction and operation?
- 5.1.22. What electrical regulatory conditions are expected for the mass burn facility during the feasibility and design processes, construction and operation?

- 5.1.23. What solid waste regulatory conditions are expected for the mass burn facility?
- 5.1.24. To your knowledge, what rebates/special subsidies/grants/other for electricity generated from waste exist in South Africa; or internationally which may be accessed from such a facility in South Africa?
- 5.1.25. PROCUREMENT STRATEGY
- 5.1.26. How would your company be best positioned to participate in the development, construction and operation of a mass burn facility? Review the following options and provide details of your company's possible participation.
- 5.1.26.1. Public Private Partnership
- 5.1.26.2. Independent Power Producer
- 5.1.26.3. Debt, Equity, Project Financing participation
- 5.1.26.4. Professional Services (Engineering, Legal, Transactional Advisory, etc)
- 5.1.26.5. EPC Contractor
- 5.1.26.6. Technology/Equipment Manufacturer/Supplier
- 5.1.26.7. Operations and Maintenance
- 5.1.26.8. Waste feedstock value chain Supplier
- 5.1.27. GENERAL
- 5.1.28. Are there any other comments that your company would like to highlight including emerging technologies and trends in the WtE sector and in particular mass burn technologies?

## 6. Timeline

7. The City is currently requesting research on emerging technologies, to plan for future technology needs.

7.1. RFI Release date: Monday, 18 May 2026

7.2. RFI Closing date: Thursday, 18 June 2026

## 8. Interaction with Respondents

8.1. Respondents are advised that the City of Cape Town reserves the right not to utilise information gathered during the request for information process in order to complete a specification, which is to be put forth for tendering.

8.2. Send any questions to [RFI.SEM@Capetown.gov.za](mailto:RFI.SEM@Capetown.gov.za) should you have any queries.

## **9. Proof of Concept**

9.1. The City of Cape Town reserves the right to engage respondents to look at different methods to validate and test information provided in response to this RFI. This may include a request for a proof of concept or a demo. This will not result in any financial contribution towards proofing the respondent(s) concepts but will allow the City of Cape Town to engage after the conclusion of this RFI with the aim to ensure the information provided is validated and tested.

## **10. No Obligation**

10.1. This RFI places no obligation on the City of Cape Town to embark on any subsequent process to obtain any product or solution offering listed herein and respondents hereto shall obtain no preference or favour by responding to the Request for Information.

10.2. The City of Cape Town is bound by relevant legislation and formal procurement and other procedures and therefore will follow these procedures should a need arise to procure any technologies in the future.

10.3. Responses to this RFI are voluntary. Do not include any proprietary, classified, confidential, trade secret, or sensitive information in your response. The responses will be reviewed by City staff, and individual feedback will not be provided to any respondent. The City of Cape Town will use information submitted in response to this Request for Information at its discretion. The City of Cape Town reserves the right to use any submitted information on its public websites, in reports, in summaries, in any possible resultant solicitation(s), grant(s), or cooperative agreement(s), or in the future development regarding this subject.

10.4. This RFI is for information and planning purposes only and shall not be construed as a solicitation, grant, or cooperative agreement, or as an obligation on the part of the City of Cape Town. The City of Cape Town will not pay for the preparation of any information submitted or for the use of such information nor undertakes to protect what the respondents deems to be proprietary or intellectual property. No basis for claims against the City of Cape Town shall arise as a result of a response to this request for information or from the use of such information.

10.5. The research obtained from this RFI will inform the technical and functional specification of the proposed goods and services to be obtained, which may then follow an open competitive bidding process, should the City of Cape Town opt to implement such a system (Viability and Feasibility assessment, budgetary provisions, etc.). The City of Cape Town reserves the right not to proceed with any further process, should the research/technology indicate it is not a priority, viable and/or feasible. The City of Cape Town reserve the right to

applied different procurement strategies, while exploring different methods to validate and test information provided in response to this RFI.

## **11. Submission Requirements**

- 11.1. Please provide all inputs electronically on or before **16:00 on Thursday, 18 June 2026.**
- 11.2. All responses to be sent: [SEM.Procurement@capetown.gov.za](mailto:SEM.Procurement@capetown.gov.za)
- 11.3. Email subject line: RFI158/2025/26 response from [Insert company name]
- 11.4. Response format: PDF
- 11.5. Length: +/-20 pages including support documentation.

Thank you

## **Demand Management**

Directorate of Finance

Department of Supply Chain Management