
	Expression of Interest (EOI) or Request for Information (RFI) Template	Document Identifier	240-72663051	Rev	4
		Effective Date	17 June 2025		
		Review Date	June 2030		
		RFI Number	E2113CXMWP		

PART A REQUEST FOR INFORMATION (RFI) E2113CXMWP			
Description of the works/goods/services	E2113CXMWP-Request for information on commercially available leakage detection technologies applicable to coal fired power station flue gas ducting.		
Deadline for submission	28 November 2025	At (South African Standard Time)	10h00
Tender Office address	Tenders are uploaded via Eskom Tender bulletin site on the Eskom E-tendering page.		
Eskom's representative	Monica Shuping <ShupinDM@eskom.co.za>		
EOI's/RFI are to be submitted electronically via Eskom E- tendering site by the stipulated closing date and time. <i>Please note it is the responsibility of the supplier to ensure that EOI/RFI submission is submitted before the closing date and time</i>	Tenders are uploaded via Eskom Tender bulletin site on the Eskom E-Tendering page. https://eTendering.eskom.co.za/tender/		
Electronic Submission of RFI	<p>The tenderer must upload the tender via Eskom Tender bulletin site on the Eskom E- tendering page.</p> <p>All documents need to be submitted in a PDF and Excel format (The upload size per document is 500 megabytes and total submission is restricted to 4 gigabyte).</p> <p>No Zip/condense files can be uploaded No hard copy will be accepted</p> <p>If for some reason you resubmit your EOI, then the latest version of the EOI submitted will only be accepted and all previous submission/s will be null and void.</p> <p>Please ensure that the submission status is indicated as complete.</p> <p>Supplier Help Manual guide and video can be found on Eskom E-Tendering page available on e-tendering platform.</p>		
E-tendering Help Manual for supplier			

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Eskom Holdings SOC Ltd (“Eskom”) invites you to submit an:

- **Request for information (RFI)** to submit information for the works/goods/services as stated in the table. This RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom’s further deliberation and development of a strategy for the leakage detection technologies applicable to coal fired power station flue gas ducting Eskom may request indicative prices if so stated in this RFI.

Eskom has delegated the responsibility for this **RFI** to the **Eskom Representative**, whose details can be found above.

We look forward to receipt of your response.

Yours faithfully




Procurement Manager

Shamani Padayachee

Date: 06 November 2025

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Please find below our response to Eskom's questions:

DEFINITIONS

In this Document, except as otherwise defined herein, the following terms shall have the following meanings:


B-BBEE	- means Broad-Based Black Economic Empowerment.
ERIC	- Eskom Research and Innovation Centre that is located at Lower Germiston Road, Rosherville, Gauteng.
Procurement Process	- Means the procurement process being conducted in terms of this RFI in respect of the Project or requested information.
RT&D	- Research, Testing and Development, a business unit in Eskom.
Respondent	- any entity or consortium that submits a Response to this Document.
State Owned Company or SOC	- a legal entity that is or has previously been created by the Government in order to partake in commercial activities on the Government's behalf, where in the context of the Project, such entity may include any entity with a mandate to engage in the energy or financing sector.
Gx, Dx and Tx	- Generation, Transmission and Distribution. Generation, Distribution, Transmission

INTRODUCTION AND BACKGROUND

Auxiliary power consumption in coal-fired power stations directly impacts the plant efficiency and the overall net power. A significant portion of auxiliary power is used by fans, pumps, and mills, with Forced Draft and Induced Draft (ID) fans being among the largest contributors. One

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of the hidden but impactful causes of high fan loading is leakage in duct systems, which leads to increased air and flue gas mass flow, resulting in higher fan power draw.

Currently, duct leak detection in power stations primarily relies on visual inspections conducted when a unit is on outage. However, these methods are often ineffective due to limited access to ductwork, poor visibility, and the inability to detect small or concealed leaks. Additionally, such inspections are typically reactive rather than proactive, meaning leaks are only addressed after they have caused significant efficiency losses. The absence of continuous monitoring or more sensitive detection techniques allows many leakages to persist unnoticed, contributing to sustained high auxiliary power consumption.

Reducing auxiliary power consumption is a key driver for improving overall plant efficiency, lowering operational costs, and supporting emissions reduction efforts. This research aims to identify practical and cost-effective methods to reduce auxiliary power usage by addressing common, yet under-

DESCRIPTION OF INFORMATION THAT NEEDS TO BE PROVIDED

Eskom is requesting information on commercially available leakage detection technologies for applicable on coal fired power plant flue gas path ducting.

PURPOSE AND STRUCTURE OF THE RFI


- 1) The objective of this RFI is to obtain market information from interested Suppliers/Service providers for detection technologies for applicable on coal fired power plant flue gas path ducting.
- 2) The future demonstration of leakage detection technologies for applicable on coal fired power plant flue gas path ducting. specifications will be developed based on the technologies that are available in the market.
- 3) Service providers/Suppliers are encouraged to provide complete information as much as possible.
- 4) Responses submitted should be as comprehensive as possible and include information requested and any supporting documentation in respect thereof. If proprietary information is included in the response, the clauses on the use of such information must be indicated.

BENEFITS TO ESKOM

- Improved station output power by reducing auxiliary power consumption through lower ID fan loading.

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- Increased availability and reliability of air and gas handling systems, due to reduced wear and tear on fans operating under unnecessary load.
- Reduction in emissions, as less fuel is required per unit of net power produced due to improved cycle performance.

INFORMATION REQUESTED


- Eskom is requesting information on commercially available leakage detection technologies applicable to coal fired power station flue gas ducting. The objective of this Request for Information is to gather a list of available leakage detection technologies applicable to coal fired power station flue gas ducting.. Responses to the RFI will enable Eskom to evaluate the next steps in terms of implementation.

The supplier is to submit an electronic copy with the content listed below. The supplier is also welcome to supply additional information that they deem relevant and useful in evaluating the technology:

No.	Question	Please provide your response in this column
1	Provide supplier name, product name and product description.	
2	Provide details of your company's experience in supplying gas path/flue duct leakage detection technologies to coal-fired power plants or similar heavy industrial applications. Please specify countries, utilities/companies, and period of usage.	
2	What technology or principle does your solution utilise to detect duct leakages (e.g. acoustic, tracer gas, thermal imaging, pressure mapping, or other methods)? Please explain the scientific/technical basis.	
3	Can your technology be applied during unit operation (online monitoring) or is it limited to outage inspection?	
4	What are the typical detection capabilities (e.g. minimum detectable leakage rate, sensitivity, and accuracy)?	
5	What operating requirements (power supply, calibration, consumables, operator skill level) are necessary for deployment of your technology?	

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6	What is the expected equipment life cycle and associated costs (initial capital, consumables, maintenance)?	
7	Describe your installation process, including duration, resources required, and whether installation support is available locally in South Africa.	
8	Provide details of maintenance and repair requirements. Are spares and service support readily available locally, or must they be sourced internationally?	
9	Provide case studies, reports, or operational results that demonstrate the effectiveness of your solution in identifying duct leakages.	
10	Are there opportunities for knowledge transfer or training in South Africa as part of implementing your technology?	
11	Please provide any additional information relevant to Eskom's evaluation of your technology.	

PART B
RESPONSE SHEET IN TERMS OF A REQUEST FOR INFORMATION
To be completed by the supplier

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To	Eskom Holdings SOC Ltd	Date	
Attention			
Tel no		Fax no and /or e-mail address	
From		Address	
Address			
Sender			
Description of the works/goods/services	E2113CXMWP - Request for information on commercially available leakage detection technologies application to coal fired power station flue gas ducting		

Please find below our response to Eskom's questions:

1. RESPONDENT INFORMATION

No.	Question	Please indicate your response in this column
1.	Name of the Respondent	
2.	The name and contact details of the person appointed by the Respondent as its representative in the event that Eskom needs to contact the company for clarification or further details.	
3.	Company profile and description of key service offerings and capacities.	
4.	Is the respondent/company an existing registered Eskom vendor? (Please provide vendor registration details)	
5.	Provide details on respondent/Company empowerment, localisation credentials (Black Youth & Women Owned Enterprise, BBBEE Enterprise etc)	
6.	Is the company locally based or have a local office in South Africa? If no, indicate if the company is familiar with the requirements of South African State-Owned Companies tendering processes.	

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