	<b>Expression of Interest (EOI) or Request for Information (RFI) Template</b>	<b>Document Identifier</b>	240-72663051	<b>Rev</b>	1
		<b>Effective Date</b>	October 2022		
		<b>Review Date</b>	October 2027		
		<b>EOI/RFI Number</b>	MWP2433CX		

<b>PART A</b> <b>REQUEST FOR AN EXPRESSION OF INTEREST (EOI)/ REQUEST FOR INFORMATION (RFI)</b>			
<b>Description of the goods</b>	Request for Information on Commercially Available Turbo-Generator Hydrogen Gas Dryers in An Operational Coal Fired Power Station Environment		
<b>Deadline for submission</b>	25 March 2024	<b>At (South African Standard Time)</b>	10h00
<b>Tender Office address</b>	Retail Centre Megawatt Park 1 Maxwell Drive Sunninghill 2000		


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

- **Request for information (RFI)** to submit information for the goods 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 Request for Information on Commercially Available Turbo-Generator Hydrogen Gas Dryers. Eskom may request indicative prices if so stated in this RFI.

Eskom has delegated the responsibility for this **RFI** to the signatory of this document, whose details can be found below.


We look forward to receipt of your response.

Yours faithfully

<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
Damela Mathetja	Procurement Manager		09.02.2024
<b>Telephone number</b>		<b>Fax and/or e-mail address</b>	

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## 1. BACKGROUND INFORMATION

Turbo-generator hydrogen gas dryers are used as the most common form of hydrogen moisture protection in hydrogen-cooled generators in power stations.

Eskom intends to evaluate commercially available hydrogen dryer technologies through a market scan in terms of availability, technical performance (operation, maintenance, and reliability) and financial feasibility for implementation in the Eskom generator fleet.

## 2. OBJECTIVE OF THE RFI

Introducing new effective hydrogen gas dryers to the Eskom generator fleet will increase the generator components life and reduce unplanned outages (UCLF) and failures.

It is commonly understood that high relative humidity due to ineffective hydrogen gas dryers induces stress corrosion cracking on generator retaining rings manufactured from steel alloy i.e., 18Mn-5Cr. There is also evidence that newer retaining rings made of 18Mn-18Cr are susceptible to stress corrosion cracking. Replacing these generator retaining rings can cost more than R10 Million on large Generators.

A 2 % decrease in hydrogen purity due to water or oil contamination can cost Eskom more than R3, 9 M per year in MW power sales. This is because frictional losses of hydrogen coolant within generator increase as the density of the coolant increases.

New products and technologies are regularly introduced into the market, and Eskom needs to be in an informed position.

### METHOD AND PLACE OF DELIVERY

**All the responses must be sealed and be delivered at the tender box located at the following:**

THE TENDER OFFICE  
Eskom Megawatt Park Tender office  
Retail Centre  
Maxwell Drive  
Sunninghill


**All RFI responses must be clearly marked: “MWP2433CX Request for Information on Commercially Available Turbo-Generator Hydrogen Gas Dryers”.**

### FORMAT OF SUBMISSION

**The respondent shall be submitted as 1 (one) printed original RFI, 1 (one) printed copy, plus 1 USB of the submission.**

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<b>PART B</b> <b>RESPONSE SHEET IN TERMS OF A REQUEST FOR AN EXPRESSION OF INTEREST/ REQUEST FOR INFORMATION</b> <b>To be completed by the supplier</b>			
<b>To</b>	Eskom Holdings SOC Ltd	<b>Date</b>	
<b>Attention</b>	Zekhaya Nzima		
<b>Tel no</b>		<b>Fax no and /or e-mail address</b>	
<b>From</b>		<b>Address</b>	
<b>Address</b>			
<b>Sender</b>			
<b>Description of the works/goods/services</b>			

Please find below our response to Eskom's questions:

No.	Question	Please indicate your response in this column
1.	Your contact name and contact details	
2.	Company registration number	
3.	Product Description	
4.	Main Technical Datasheet	
5.	Technical Specifications	
6.	Piping and Instrumentation Diagram (P&ID) and Layout	
7.	Operation and Maintenance Manual (OMM)	
8.	Repair requirements (also indicate whether local or international)	

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9.	<b>Maintenance Requirements (also indicate whether Local or International)</b>	
10.	<b>Years on the Market</b>	
11.	<b>Expected Life Cycle and Associated Lifecycle Costs</b>	
12.	<b>Spares Availability (also indicate whether local or international)</b>	
13.	<b>International Usage (Describe worldwide usage – country, utility/company name, period used etc.)</b>	
14.	<b>Case Studies/Reports/Literature based on technology experience/usage</b>	
15.	<b>Training Requirements</b>	
16.	<b>Estimated Costs of the Technology</b>	

Yours faithfully

<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
<b>Telephone number</b>		<b>Fax and/or e-mail address</b>	

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