

ENERGY SAVINGS FOR BUSINESS

Investing to keep businesses competitive



Process Heating Checklist



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INTRODUCTION

This document is intended as a guide to support the submission of accurate and complete Process Heating project applications. All applicants with Process Heating should ensure the application meets the Eligibility Requirements set out in the Participant Terms and Conditions, Contractor Code of Conduct and Eligible Measures List. The applicant must submit the requested documentation and answer the questions contained within this document.

This checklist includes guidance for what needs to be entered in each input field at Step 4 and Step 5 of the Application process. Step 5 specifically describes which documents need to be uploaded and their purpose.

GUIDANCE ON APPLICATIONS

The following sections provide guidance on Process Heating applications, ensuring that they are complete, accurate and comprehensive.

The applicant and/or contractor will also need to provide the following information in Step 4 and Step 5 of the application submission, as further described in the tables below.

STEP 4 OF PRE-PROJECT APPLICATION

ECONOMIZER

- Conventional (Non-Condensing) Economizer
- Condensing Economizer

Field	What to Enter	How Data or Input Provided is Used
Quantity	Enter the number of measures being installed.	Used to calculate eligible incentive.Post-project QA/QC.
Specification Sheet	Upload the specification sheet for the measure. Indicate/circle which specific equipment is being used for the project.	Post-project QA/QC.
Boiler System Annual Operating Hours	Enter annual runtime for existing boiler system.	Estimating energy savings achieved.
Boiler Input Energy (MBH)	Enter the total MBH of all installed boilers. If any boiler(s) is/are on standby, please indicate on a separate sheet and upload it.	Estimating energy savings achieved.
Boiler Thermal Efficiency (%)	Enter average efficiency of all operating boilers (exclude the standbys) but also upload a separate document showing efficiency of each installed boiler (including the standbys).	Estimating energy savings achieved.
Equipment & Material Costs	Enter equipment and material costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.
Labour Cost	Enter labour costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.
Design Cost	Enter design costs and include all other costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.

STEAM BOILERS

Field	What to Enter	How Data or Input Provided is Used
Quantity	Enter the number of measures being installed.	Calculate the eligible incentive.Post-project QA/QC.
Specification Sheet	Upload the specification sheet for the measure. Indicate/circle which specific equipment is being used for the project.	Post-project QA/QC.
Boiler System Annual Operating Hours	Enter annual runtime for existing boiler system.	Estimating energy savings achieved.
Boiler Input Energy (MBH)	Enter the total MBH of all installed boilers. If any boiler(s) is/are on standby, please indicate on a separate sheet and upload it.	Estimating energy savings achieved.
Boiler Thermal Efficiency (%)	Enter average efficiency of all operating boilers (exclude the standbys). Upload a separate document showing efficiency of each installed boiler (including the standbys).	Estimating energy savings achieved.
Boiler Application	Select from the list the boiler application:	Estimating energy savings achieved.
Equipment & Material Costs	Enter equipment and material costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.
Labour Cost	Enter labour costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.
Design Cost	Enter design costs and include all other costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.

STEAM FITTINGS AND PIPE INSULATIONS

Field	What to Enter	How Data or Input Provided is Used
Quantity	Enter the number of measures being installed.	Used to calculate eligible incentive.Post-project QA/QC.
Specification Sheet	Upload the specification sheet for the measure. Indicate/circle which specific equipment is being used for the project.	Post-project QA/QC.
Boiler System Annual Operating Hours	Enter annual runtime for existing boiler system.	Estimating energy savings achieved.
Boiler Input Energy (MBH)	Enter the total MBH of all installed boilers. If any boiler(s) is/are on standby, please indicate on a separate sheet and upload it.	Estimating energy savings achieved.
Boiler Thermal Efficiency (%)	Enter average efficiency of all operating boilers (exclude the standbys). Upload a separate document showing efficiency of each installed boiler (including the standbys).	Estimating energy savings achieved.
Pipe Location	Select from the list the pipe location: Indoor (Conditioned Space) Indoor (Unconditioned Space) Outdoor	Estimating energy savings achieved.
Length of insulation (feet)	Enter total length of insulation for diameter selected. For fittings use equivalent pipe length.	Calculate the eligible incentive.Post-project QA/QC.
Pipe Diameter (inches)	Enter nominal pipe diameter.	Calculate the eligible incentive.Post-project QA/QC.

Equipment & Material Costs	Enter equipment and material costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.
Labour Cost	Enter labour costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.
Design Cost	Enter design costs and include all other costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.

STEAM TRAPS

What to Enter	How Data or Input Provided is Used
Enter the number of measures being installed.	Calculate the eligible incentive.Post-project QA/QC.
Upload the specification sheet for the measure. Indicate/circle which specific equipment is being used for the project.	Post-project QA/QC.
Select from the list either 'Saturated' or 'Superheated'.	Post-project QA/QC.
Enter steam trap diameter in inches.	Used to calculate eligible incentive.Post-project QA/QC.
Select from the list the steam trap type: Thermostatic Mechanical Float Mechanical Inverted Bucket Thermodynamic	Estimating energy savings achieved.
Enter annual runtime for existing boiler system.	Estimating energy savings achieved.
Enter the total MBH of all installed boilers. If any boiler(s) is/are on standby, please indicate on a separate sheet and upload it.	Estimating energy savings achieved.
Enter average efficiency of all operating boilers (exclude the standbys). Upload a separate document showing efficiency of each installed boiler (including the	Estimating energy savings achieved.
	Enter the number of measures being installed. Upload the specification sheet for the measure. Indicate/circle which specific equipment is being used for the project. Select from the list either 'Saturated' or 'Superheated'. Enter steam trap diameter in inches. Select from the list the steam trap type: • Thermostatic • Mechanical Float • Mechanical Inverted Bucket • Thermodynamic Enter annual runtime for existing boiler system. Enter the total MBH of all installed boilers. If any boiler(s) is/are on standby, please indicate on a separate sheet and upload it. Enter average efficiency of all operating boilers (exclude the standbys). Upload a separate document showing efficiency of each

Equipment & Material Costs	Enter equipment and material costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.
Labour Cost	Enter labour costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.
Design Cost	Enter design costs and include all other costs as indicated on the invoice/final quote.	Calculate the eligible incentive.Post-project QA/QC.

STEP 5 OF PRE-PROJECT APPLICATION: ALL PROCESS HEATING MEASURES

Field	What to Enter	How Data or Input Provided is Used
Cost Quote	Quote or invoice should be itemized to include quantity, brand, model numbers for equipment, applicant name, contractor name, facility address and date (Sample quote provided in the Appendix). Costs should be indicated separately for: Equipment and Material Labour Design and Others Taxes	 Cross-reference against provided costs. Calculate the eligible incentive. Post-project QA/QC.
Electricity Bill for Facility	Upload the most recent electricity bill available for the facility.	Ascertain rate class.

POST-PROJECT APPLICATION

Note that for the post-project application, you will be required to confirm that no changes were made from the pre-project application, unless an Application Change Approval Notice was issued by ERA. In terms of documents required, you will need to provide evidence of the following:

- Invoice for Project Costs
- Proof of Payment for Project Costs
- Conditions stated in the Notice of Pre-Approval

Participant may be subject to a QA/QC check and asked for additional documentation to facilitate a site visit.

APPENDIX

SAMPLE INVOICE / FINAL QUOTE

Quotes should be itemized to include quantity, brand, model numbers for equipment, applicant name, contractor name, facility address and date. Costs should be indicated separately for:

- Equipment and Material
- Labour
- Design and Others
- Taxes

A sample quote is provided below:

