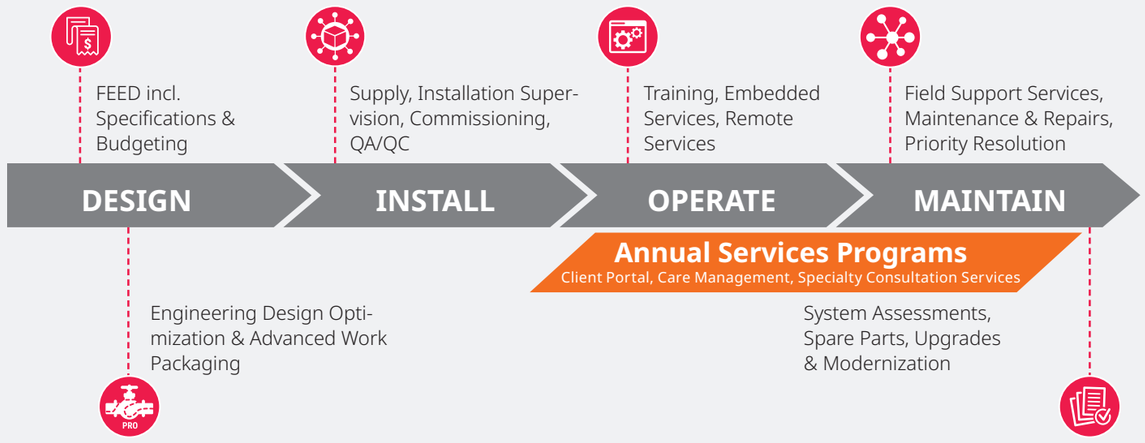
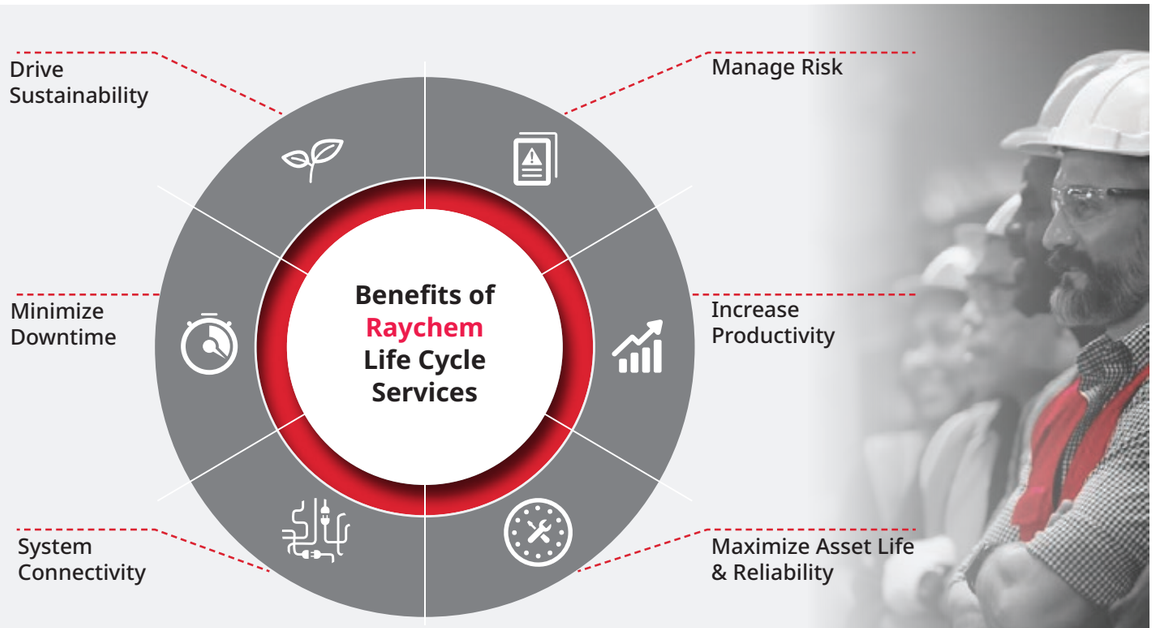
Life Cycle Services - AUDITS

Raychem

We are experts in electrical heat tracing (EHT), providing **Life Cycle Services** around the world.

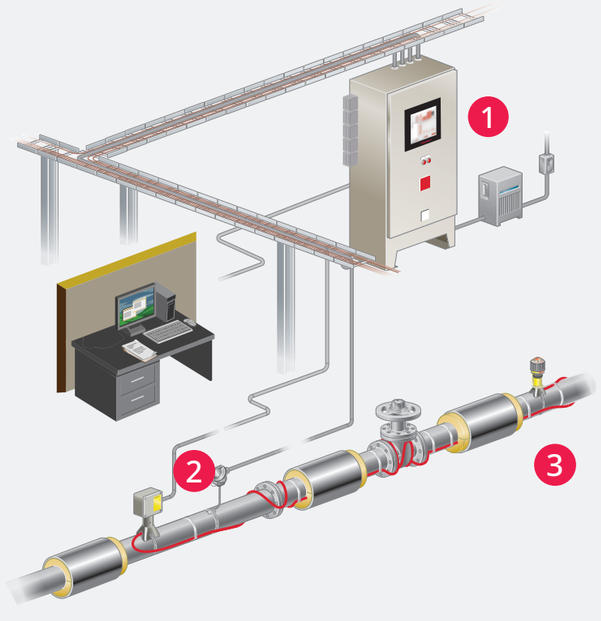
From concept to delivery, from operations to maintenance, from **audits** to retrofits: we optimize your heat tracing projects for timing, budget and scope with a fully integrated approach.

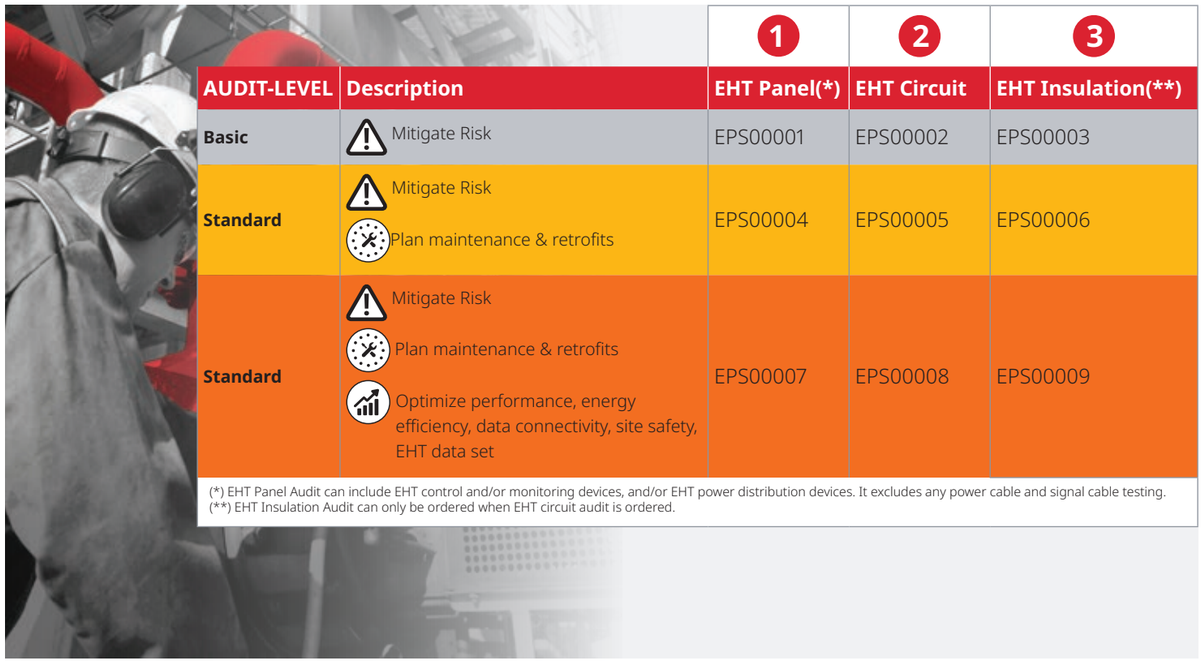




Heat Management Solutions include

- **EHT Systems**
  Power Supply, Control & Distribution Panels (1), EHT Circuits (2), Thermal Insulation (3), ...
- **EHT Services**
  Engineering & Design, Procurement, Construction & Commissioning, Maintenance & Audits, Training, ...
- **EHT Documents**
  P&ID's, Calculations, Isometrics, Line Lists, ...





AUDIT-LEVEL	Description	1 EHT Panel(*)	2 EHT Circuit	3 EHT Insulation(**)
Basic	Mitigate Risk	EPS00001	EPS00002	EPS00003
Standard	Mitigate Risk Plan maintenance & retrofits	EPS00004	EPS00005	EPS00006
Standard	Mitigate Risk Plan maintenance & retrofits Optimize performance, energy efficiency, data connectivity, site safety, EHT data set	EPS00007	EPS00008	EPS00009

(*) EHT Panel Audit can include EHT control and/or monitoring devices, and/or EHT power distribution devices. It excludes any power cable and signal cable testing.
(**) EHT Insulation Audit can only be ordered when EHT circuit audit is ordered.

Audit Level	Description	Audit Scope			
			EHT Panel (*)	**EHT Circuit**	**EHT Insulation (**)**
Basic	**Mitigate Risk** - Visual inspection & basic system tests to identify visual damage, loose connections, missing components, improper installation,... - Basic report - For small facilities with simple EHT systems (> 30 circuits)	Input /as-built documents	Required: Panel Drawings	Required: Calculation list Required: P&ID and/or Isometric Optional: Single Line Diagram	Required: P&ID and/or Isometric
		Activities on site	Perform EHT Panel Checklist	Perform EHT Circuit Checklist	Perform EHT Insulation Checklist Hand-mark isometrics with issues, if available
		Deliverables	1. EHT Panel Checklist (in pdf, 1 per panel) 2. Repair list (priced)	1. EHT circuit Checklist (in pdf, 1 per circuit) 2. Repair list (priced)	1. EHT Insulation Checklist (in pdf, 1 per circuit) 2. Repair list (not priced) 3. Hand-marked isometric with issues (if available)
		Part Number	**EPS00001**	**EPS00002**	**EPS00003**
Standard	**Plan maintenance & retrofits** - BASIC activities + - Review documents, system design, materials used, installation & maintenance practices. - Detailed tests on system - Detailed report - For more advanced & critical EHT systems	Input /as-built documents	Required: Panel Drawings	Required: Calculation list Required: P&ID and/or Isometric Optional: Single Line Diagram	Required: P&ID and/or Isometric
		Activities on site	Perform EHT Panel Checklist, incl ELR testing (profi-tester) Hand-mark Panel drawings	Perform EHT circuit Checklist Hand-mark Calculation list, Isometrics, Single Line Diagram (if available)	Perform EHT Insulation Checklist Hand-mark isometrics with issues (if available)
		Deliverables	1. EHT Panel Checklist (in pdf, 1 per panel) 2. Repair list (priced) 3. Hand-marked Panels drawing 4. Maintenance list (priced)	1. EHT circuit Checklist (in pdf, 1 per circuit) 2. Repair list (priced) 3. Hand-marked Calculation list, Isometrics, Single Line Diagram (if available) 4. Maintenance list (priced)	1. EHT Insulation Checklist (in pdf, 1 per circuit) 2. Repair list (not priced) 3. Hand-marked isometrics with issues (if available) 4. Maintenance list (not priced)
		Part Number	**EPS00004**	**EPS00005**	**EPS00006**
Advanced	**Optimize performance, energy efficiency, data connectivity, site safety, EHT data set** - STANDARD activities - Extra tests on system - Validate design & perform reverse engineering when EHT documentation is missing - Detailed report - For more advanced & critical EHT systems, or facilities where EHT documentation is missing	Input / as-built documents	Preferred: Panel Drawings	Preferred: P&ID, Calculation list, Isometrics, Single Line Diagram	Preferred: P&ID, Isometrics, Insulation Specification
		Activities on site	Perform EHT Panel Checklist, incl ELR testing (profi-tester) Perform thermal imaging scan for hot spots and bad contacts Hand-mark Panel drawings (if available)	Perform EHT Checklist, incl TDR measurement for actual circuit length Hand-mark Calculation list, Isometrics, Single Line Diagram (if available). If not available: collect info for Calculation list and hand-mark P&ID with location of boxes, thermostats, Pt-100's	Perform EHT Insulation Checklist Perform thermal imaging scan for insulation issues Check insulation thickness Hand-mark isometrics with issues
		Deliverables	1. EHT Panel Checklist (in pdf, 1 per panel) 2. Repair list (priced) 3. Hand-marked Panels drawing (if available). If not available: panel information sheet. 4. Maintenance list (priced) 5. Optimization list (not priced)	1. EHT Checklist (in pdf, 1 per panel) 2. Repair list (priced) 3. Hand-marked Isometrics, Calculation list, Single Line Diagram (if available). If not available: EHT calculation list and hand-marked P&ID with location of boxes, thermostats and Pt-100's. 4. Maintenance list (priced) 5.Optimization list (not priced)"	1. EHT Insulation Checklist (in pdf, 1 per circuit) 2. Hand-marked isometrics with issues 3. Validation of thickness based on insulation specification 4. Repair list (not priced) 5. Maintenance list (not priced)
		Part Number	**EPS00007**	**EPS00008**	**EPS00009**

(*) EHT Panel Audit can include EHT control and/or monitoring devices, and/or EHT power distribution devices. It excludes any power cable and signal cable testing.
(**) EHT Insulation Audit can only be ordered when EHT circuit audit is ordered.

Contact your local Raychem representative for further details.

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