Gas measurement and monitoring plan template

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| **OVERVIEW** | | | | | | | | | | | | | | | | | | |
| **1** | | **Background** | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| **2** | | **Provide participant details below** | | | | | | | | | | | | | | | | |
| Name of participant organisation | | | | | | |  | | | | | | | | | |
| Business address | | | | | | |  | | | | | | | | | |
| Name of nominated project manager | | | | | | |  | | | | | | | | | |
| Project manager contact number | | | | | | |  | | | | | | | | | |
| Project manager contact email address | | | | | | |  | | | | | | | | | |
| **3** | | **Describe how gas is used *directly* at your site in major equipment or areas** | | | | | | | | | | | | | | | | |
|  | *Major equipment* | | | | | | | | | | | | | | *Fluid and conditions* | |
| 1 |  | | | | | | | | | | | | | |  | |
| 2 |  | | | | | | | | | | | | | |  | |
| 3 |  | | | | | | | | | | | | | |  | |
| **4** | | **Describe how gas is used *indirectly* at your site in major equipment or areas  (e.g. in the form of steam, hot water, or hot air)** | | | | | | | | | | | | | | | | |
|  | *Major equipment, processes or areas* | | | | | | | | | | | | | | *Fluid and conditions* | |
| 1 |  | | | | | | | | | | | | | |  | |
| 2 |  | | | | | | | | | | | | | |  | |
| **STEP 1 – SPECIFY THE GOAL AND WHAT YOU KNOW** | | | | | | | | | | | | | | | | | | | |
| **1** | | | **Goal of this measurement and monitoring plan** | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| **2** | | | **Annual site energy consumption** | | | | | | | | | *Gas (GJ)* | | | *From:* | | *To:* | | |
|  | | |  | |  | | |
| **3** | | | **Annual site energy cost** | | | | | | | | | *Gas ($)* | | | *From:* | | *To:* | | |
|  | | |  | |  | | |
| **4** | | | **Simplified schematic of relevant systems, existing and new meters** | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| **5** | | | **What meters exist?** | | | | | | | | | | | | | | | | |
| *Area* | | | *Meter location* | | *Description* | | | *Qty* | | | *Specification and calibration records* | | *Communications, data storage, alarms/reports* | | | |
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| **6** | | | **Critical process conditions that need to be considered in the gas measurement and monitoring plan** | | | | | | | | | | | | | | | | |
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| **STEP 2 – PRIORITISE WHAT TO MEASURE** | | | | | | | | | | | | | | | | | | | |
| **1** | | | **High level gas energy balance** | | | | | | | | | | | | | | | | |
| *List of main areas of gas use* | | | *Gas use (GJ per annum)* | | *% of total gas consumption* | | *Priority* | | | | *How the gas use was calculated* | | | | | |
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| **2** | | | **Steps to improve the understanding of energy use** | | | | | | | | | | | | | | | | |
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| **3** | | | **Priorities** | | | | | | | | | | | | | | | | |
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| **STEP 3 – SELECT ENERGY MANAGEMENT SOFTWARE AND LONG-TERM DATA STORAGE SOLUTION** | |
| **1** | **Energy management software currently in use** |
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| **2** | **Reporting, alerts and alarms** |
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| **3** | **Long-term data storage** |
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| **STEP 4 – METER SELECTION *(ensure proposed meters are shown on schematic)*** | | | | | |
| *Area* | *Meter location* | *Description* | *Qty* | *Specification* | *Communications, data storage, alarms/reports* | |
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| **STEP 5 – BUDGET AND IMPLEMENTATION PLAN** | |
| **1** | **Implementation plan** |
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| **2** | **Schedule** |
|  |
| **3** | **Safety considerations** |
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| **4** | **Proposed costs** | |
| *Meters* |  |
| *Electrical and communications works* |  |
| *Piping and mechanical works* |  |
| *Civil works* |  |
| *Project management* |  |
| *Installation contractors* |  |
| *Other* |  |
| *TOTAL* |  |