**Date last modified/updated:** Click here to enter a date. **Internal audit:** Click here to enter a date.

**Who last modified/updated:** Click here to enter text. **Management review:** Click here to enter a date.

**For Task 1: This part of the Navigator Playbook is completed when you have:**

1. **Identified the external and internal issues that affect your organization’s ability to improve its energy performance and achieve the intended outcomes of the EnMS.**
2. **Recorded this information.**

***Add this information to the Risks and Opportunities Register (below) by completing columns one through three.***

**For Task 7 outputs: This part of the Navigator Playbook is completed when you have:**

* 1. **Identified the impacts, likelihood of occurrence, and risk level arising from the issues you already recorded**
  2. **For each of the identified risks and opportunities, plan and implement actions to address them using the processes of the EnMS.**

***Add this information to the Risks and Opportunities Register (below) by completing columns four through eight.***

Risks and Opportunity Register

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Task 1** | | | **Outputs for Task 7** | | | | |
| **Internal or external (I or E)** | **Risk or opportunity (R or O)** | **Issue** | **Impact on EnMS (1-3)** | **Likelihood (1-3)** | **Risk Level (Low, Medium, High)** | **Action to address** | **Effectiveness Evaluation** |
| I | R | Reduced operating budget. | 3 | 2 | High | Identify and pursue alternative low- or no-cost opportunities. Improve staffing awareness of such opportunities. |  |
| I | R | Reduced capital budget. | 3 | 2 | High | Propose investments with high return (ROI). Look for rebates or incentives that may offset some of the cost. |  |
| I | R | Lack of team buy-in | 3 | 2 | Med | Reinforce the benefits of energy management. |  |
| I | R | Reduced thermal conditions for the IT equipment (proxy for IT reliability) | 3 | 2 | High | Utilizing the [Rack Cooling Index (RCI)](http://ancis.us/images/RCI.pdf) metric helps ensure that the thermal conditions remain acceptable. |  |
| I | R | Increased water usage for reducing mechanical cooling | 3 | 2 | Med | Utilizing the [Water Usage Effectiveness (WUE)](https://www.iso.org/standard/63450.html) metric helps ensure acceptable water usage. |  |
| I | R | Increased carbon release with the new electric power provider | 3 | 2 | Med | Utilizing the [Carbon Usage Effectiveness (CUE)](https://www.iso.org/standard/63450.html) metric helps ensure acceptable carbon release. |  |
| E | R | Weather and climate concerns. | 2 | 2 | Med | Ensure EnMS can adapt to weather, drought, and a changing climate. |  |
| E | R | Electric grid interruptions. | 2 | 2 | Med | Ensure EnMS can adapt to electric grid interruptions. |  |
| E | R | State and local requirements (mandates). | 2 | 2 | Med | Mandates, such as limits on using scarce resources like water, may increase cooling energy. The EnMS needs to be flexible and adaptable. |  |
| E | O | Local utility rate and incentive programs. | 3 | 2 | No Risk | Since most data centers are all electric, ensure the EnMS can quickly respond to beneficial electric rates and utility incentives. |  |

This column to be completed in Task 7

Top Management Approval

|  |  |  |
| --- | --- | --- |
| ☒ | Date approved: | 1/15/23 |
| ☒ | Who approved: | General Manager |

Comments

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