**Objectives and Energy Targets Worksheet**

EXAMPLE

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| **Objective #1:** Load Minimization:Ensure the energy security and resiliencyof the identified mission critical facilities at **SITE** by reducingthe overall total energy load at **SITE**.[Reference section 1.x.x. of the SITE IEWP, December 2019] | **Doc ID:**OBJ1.0REV: ORIG10/25/2020 |
| **Target 1:** Reduce total electricity consumption by 10% by FY2030 based on a FY2019 baseline |
| **Target 2:**Reduce total natural gas consumption by 10% by FY2030 based on a FY2019 baseline |
| **Target 3:**Reduce total electricity for the A1 Central Cooling plant by 10% by 2030 based on a FY2019 baseline |
| **Target 4:**Reduce total natural gas for the A1 Central Heating plant by 10% by FY2030 based on a FY2019 baseline |
| **Target 5:**Reduce site energy intensity in terms of MMBTU per square foot of building space by 10% by FY2030 basedon a FY2019 baseline |
| **Considerations** |
| **Is this objective related to one or more legal, regulatory, or other energy requirement(s)?****[x]  YES** **[ ]  NO****If yes, list the relevant legal or other requirements:****SITE** IEWP, December 2019ISO 50001: 2018 | **How were applicable legal and other energy requirements considered in the development of this objective and related targets?** The extensive list of legal and other requirement documents listed in task playbook #2 were reviewed for applicability and impact relative to establishing objectives and energy targets. |
| **Is this objective related to one or more significant energy uses?****[x]  YES [ ]  NO****If yes, list the significant energy use(s):** Building /Equipment cooling and refrigerationBuilding/Water Heating | **How were significant energy uses considered in the development of this objective and related targets?**  An estimated 73% of all energy consumed at **SITE** is used for the heating or cooling of buildings, water, or equipment. Based on this, objectives and energy targets include these SEUs. |
| **How has the prioritized list of opportunities from the energy review been considered in the development of this objective?**This objective is focused on energy load minimization to ensure energy security and resiliency at **SITE**. The energy opportunities are scored and prioritized on meeting this objective. |
| **What technological options are feasible for use to complete this objective?** LED Lighting, lighting occupancy sensors, high efficiency “EnergyStar” certified equipment and appliances, high efficiency chillers and boilers, NEMA premium efficient motors, HVAC temperature reset controls, water cooled chiller condenser water reset controls, retro-commissioning upgrades on older HVAC equipment and control systems, numerous applications for Variable Frequency Drives (VFDs), tinted window films, low flow water fixtures, etc. |
| **What financial requirements or conditions are relevant to this objective?** Simple payback on energy improvement projects of two years or less is preferred, but the overarching goal of energy security and resiliency improvement by load minimization would take priority over this. |
| **What source of funds could be utilized for this objective/targets?** **[x]  Capital Improvement Project (CIP) funding from the Army Installation Management Command (IMCOM)****[x]  Funding from the Office of the Assistant Secretary of Defense for Sustainment: Energy Resilience and Conservation Investment Program (ERCIP)****[x]  Utility Energy Service Contract (UESC) funding****[x]  SITE Base Operations Support (BOS) funding** **[x]  Energy Efficiency/Water Conservation & Resilience (EWCR) funding through IMCOM****[x]  Performance contracts** **[x]  Directorate of Public Works (DPW) Qualified Recycling Program (QRP) funding** **[x]  Other**Click here to enter text. |
| **What business and operational conditions or constraints are relevant to this objective?** Federal budgeting is key to any energy related projects |
| **Who are the interested parties who have or may have views relevant to this objective and target(s)?**HQDA, DASA, I&EE, Energy & SustainabilityArmy Installation Management Command (IMCOM)**SITE** tenant commandsLocal electrical and natural gas utility services companiesArmy Corps of Engineers and the Construction Engineering Research Laboratory (CERL) retro-commissioning team |
| **How have the views of interested parties been considered?** The parties above, on an ongoing basis, have been deeply involved with the **SITE** energy goals and objectives for many years including input on energy policy and approval of funds for energy improvement projects. |
|  **Monitoring and Measurement** |
| **How will the objective be monitored and measured?**By measuring the total energy consumption at the **SITE** using linear regression and relevant variables. | **How will the target(s) be monitored and measured?**For each energy target measure the associated energy consumption by specified type using linear regression and relevant variables. |
| **What data will be collected or analyzed?**Electric kWhNatural gas MMBTUBuilding square footage | **Who will collect or analyze the data?** (Responsible Positions)Energy team leader, REMs, and the Honeywell contractors | **How often will monitoring and measuring be done?** Monthly | **What will be the record of monitoring and measurement?**Excel spreadsheet files |
| **What monitoring and measurement equipment will be utilized?** Utility metersA1 Central Heating and Cooling plant electric and natural gas meters | **Which equipment will require calibration?** A1 Central Heating and Cooling plant electric and natural gas meters | **Is this equipment already in the calibration system?**Yes | **What will be the record of calibration?**Calibration test results |
| **What are the EnPIs (if any) that will be used to report this objective/target(s)?**1. Total Site Energy Consumption (Primary MMBTU)
2. Natural Gas to 82nd Heat
3. Electricity to 82nd Cooling
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| **Related Energy Management Action Plans**(List the Action Plans associated with achieving this objective and related target) |
| SOTF Chilled Water Upgrade | 3ESC DFAC Lighting Upgrade  |
| Upgrade HVAC for SWCS HQ | Airborne Special Operations Museum Lighting Upgrade |
| Upgrade HVAC for XYZ Command HQ | RCx Retro-commissioning of selected HVAC systems with CERL |
| Fuel Polishing System | Click here to enter text. |
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| **Prepared by:** ENTER NAME | **Date:** 10/25/2020 |

EXAMPLE