

Smart Buildings Deliverables - PON 3716

1 Proposal

1.1 Smart Buildings Proposal

Proposal shall be submitted by the PEC and include written confirmation of the applicant/site owner commitment to install a smart building system. Measures should meet the stated intention of the PON which is to aid in "...the construction of an intelligent building which interconnects HVAC, lighting, plug loads, fire & life safety, security & access, people movement, analytics & management and smart metering to transform efficiency, comfort and safety for people and assets." See section 2.2.4 of PON 3716 for additional detail. Please note that all listed systems are not required if the proposed system will be able to manage the majority of all building loads, including all unregulated loads.

Smart Buildings Proposal Document must include the following:

- Detail of proposed smart building solutions which must address BOTH design and installation and include:
 - Requested additional incentive amount (\$100/unit max. \$100,000)
 - Listing of system components with specifications
 - Breakdown of component cost and incremental cost compared to standard BMS baseline
 - Detail of overall system design showing how the system will demonstrate:
 - i. Real Time Interactivity
 - ii. Analytics with Predictive Maintenance
 - iii. Learning and Continuous Improvement Planning – plan for how to use the data moving forward
 - iv. Monitor Indoor Air Quality
 - v. Optional: Epidemic Response
 - 1. Controls, monitoring, and disablement of demand-controlled ventilation
 - 2. Air disinfection strategies
- As built verification requirements to include commissioning of and calibration requirements for smart building controls and ensure system is operational and has been properly installed
- O&M training plan
- Applicant/Site Owner signature demonstrating approval of the funding request and a commitment to installation

2 Final Deliverables

2.1 Smart Buildings Report

Report detailing the as build Smart Buildings system shall be provided. Report should provide detailed description of the system controls & components, functionality, applicable procedures, and continued maintenance as well as evidence of proper installation and operation in accordance with the requirements of the Smart Buildings proposal. The structure of this document should be such that it may be used for training and as a reference for building O&M staff.

2.2 Itemized Account of All Smart Buildings Costs

Invoices and/or purchase verification documentation shall be submitted to account for the Smart Buildings Components detailed in the system design.