

**Application**

**Maryland Energy Administration**

**Data Center Energy Efficiency Grant Program (FY20)**

**Application Deadline: 11:59 p.m. EST, January 10, 2020**

**Instructions:** Please read the application thoroughly and complete all sections. Since accurate information is important in ranking your application, please submit with required supplemental documents to explain your project. The Maryland Energy Administration (MEA) strongly recommends that you read the Frequently Asked Questions and Application Rubric*before completing this application.*

# **Application checklist**

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| --- | --- |
|  | Before starting the application, please verify you have the following documents ready as they will be required to be uploaded to submit the application.  **NOTE: Failure to submit these required documents may result in your application being rejected.** |

**Step 1: Verify your project meets the following requirements:**

This data center will be located within the State of Maryland  
 This project will be cost effective  
 This project has the ability to track and record Power Usage Effectiveness (PUE).  
 This project will be located in a data center. *The definition of a data center can be found in the program FAQs.* The square footage of the data floor within the data center facility is at least 2,000 square feet.

**Step 2: Verify that you have the following documents ready to upload:**

***NOTE: Applications that fail to submit an energy analysis or energy savings calculations; utility bills or sub-meter data; and a PUE report or estimate, will be rejected.***

Energy Analysis/Audit or similar document demonstrating verifiable cost and energy savings between current baseline to new energy efficiency measures.  For New Construction, a document detailing the cost-estimates of baseline equipment (ASHRAE 90.4 or local jurisdiction building code requirement) and *incremental* cost difference of proposed system For New Construction, a building model data or engineering calculations detailing the baseline energy performance

Specification Sheets (cut sheets and performance data) for all proposed equipment  
 Project Timeline  
 Contractor/Implementer bids  
 Power Usage Effectiveness (PUE) Report or PUE Estimate *(*[*https://dcprotool.lbl.gov/PUEEstimator.aspx*](https://dcprotool.lbl.gov/PUEEstimator.aspx)*)* Copy of the initial utility program incentive application\*  
 Utility Incentive program pre-approval letter (if available)\*   
 Most Recent (12) consecutive months of electric bills, sub-metered data, or detailed engineering estimates of the baseline energy consumption

\* If the project is also participating in a utility incentive program, items marked with an \* are required if available.

# **section a: application information**

|  |  |  |  |
| --- | --- | --- | --- |
| Business Name | Click or tap here to enter text. | Contact Name | Click or tap here to enter text. |
| Project Street Address | Click or tap here to enter text. | Contact Title | Click or tap here to enter text. |
| Project City | Click or tap here to enter text. | Phone Number | Click or tap here to enter text. |
| Project Zip Code | Click or tap here to enter text. | Email | Click or tap here to enter text. |
| Correspondence Address (if different from Project Address) | Click or tap here to enter text. | | |

**Provide a brief description of the business. Attach additional sheets as required:** Click or tap here to enter text.

# **section B: facility information**

|  |  |  |  |
| --- | --- | --- | --- |
| Is this existing or new construction? | Choose an item. | Facility Type | Click or tap here to enter text. |
| Size of data floor space (sq. ft.) | Click or tap here to enter text. | IT load (KW), if known | Click or tap here to enter text. |
| PUE, (or PUE estimate) | Click or tap here to enter text. |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Annual electricity usage (kWh) | Click or tap here to enter text. | Annual electricity cost ($) | Click or tap here to enter text. |

|  |  |
| --- | --- |
| Total annual rate used for savings calculations ($) | Ex: $0.11 kWhEx: $0.11 kWhEx: $0.11 kWh |

**Electric Utility Information:**Please attach copies of the most recent twelve (12) consecutive months of electric bills.

**Do these twelve (12) months represent a typical year of operation of the facility and the energy use?**   
 Yes  No  
  
***If not, please explain:*** Click or tap here to enter text.

**Please choose one of the following:**

The electric account/meter covers only the data center (building or area within a building) for which I am applying for this grant  
 The electric account/meter covers a larger facility of which the data center is only a portion.

**If your electric bill covers a larger facility, can you determine energy requirements for the data center you wish to improve? If the meter does not represent energy consumption of the data center, please provide sub metered data or estimated of energy consumption for the data center and/or equipment being retrofitted/replaced.**Explain: Click or tap here to enter text.

|  |  |  |  |
| --- | --- | --- | --- |
| Electric Utility Name | Click or tap here to enter text. | Account Number(s) | Click or tap here to enter text. |

**Please provide a brief facility description. Include operating hours and staffing. Attach additional sheets as required:** Click or tap here to enter text.

# **section C: Grant Payment Information**

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| --- | --- |
|  | The Grant payment can only be issued to the Grantee which is the applicant listed in Section A and is the owner of the Facility. The business name must match the name on applicant's IRS W-9 form. |

|  |  |
| --- | --- |
| Authorized Representative Name  (Individual with Signatory Authority to be listed on a Grant Agreement) | Click or tap here to enter text. |
| Authorized Representative Title | Click or tap here to enter text. |
| Business Name of Authorized Representative | Click or tap here to enter text. |

# **section d: proposed energy efficiency project**

**Audit Information:**

Have you had an energy **audit/analysis** report completed on this data center in the last 2 years?   
 Yes  No  
If **yes**: Include a copy of the audit/analysis report relevant to your project or DC PRO with this application.

**Date of Audit/Analysis**: Click or tap to enter a date.

**Did your audit include air flow measurements/analysis** *(Ex: Computational fluid dynamics)***?**  Yes  No

**Does the audit reflect your current business energy usage?**  Yes  No  
If **no**, please explain: Click or tap here to enter text.

**Please check all facility systems/measures involved in this project:**

|  |  |  |
| --- | --- | --- |
| Cooling | Server Virtualization | UPS/Power Distribution |
| **Lighting** | **Airflow Optimization** | **Variable Frequency Drives** |
| **Economizers** | **ENERGY STAR® Servers** | **Building Management System(s)** |
| **Hot Aisle/Cold Aisle** | **Computational Fluid Dynamics** | **Insulation or Air Sealing** |
| **Other, please describe: Click or tap here to enter text.** | | |

**Baseline of Existing System Summary**

Describe, in detail, the existing baseline system. Include the following information: system description, equipment age, and operating efficiencies and energy usage data. Attach additional sheets as required.  
Click or tap here to enter text.

**Proposed New System**

Please describe, in detail, the scope of work that will be performed (e.g. chiller replacement, HVAC, containment, server virtualization, etc.). Include the following information: proposed system description, impact on existing equipment, operating efficiencies for new equipment, and expected useful life. State the source of energy saving assumptions. Attach additional sheets as required.   
Click or tap here to enter text.

**Proposed Project Financials**

Please use the text area below to explain the estimated project costs and how these costs and savings were calculated. Include material costs, labor costs, estimated annual $ savings, anticipated cost of the project, and any and all anticipated incentive(s) (including utility, federal, city, county, and others). Annual electric saving and cost saving estimates should be backed up by accompanying documentation.  
Click or tap here to enter text.

# **section E: proposed energy efficiency project Financials**

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| --- | --- |
|  | Please use the table below to summarize the measure type, energy savings and estimated costs. This information is critical to ranking your application. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No. | Energy Efficiency Measure and Location | Baseline Measurements (kWh/annual) | Projected Annual Savings (kWh) | Projected Annual Energy Cost Savings ($) | Estimated Project Cost ($) | Simple Payback (Years) |
| **1** | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| **2** | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| **3** | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| **4** | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| **5** | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| **TOTAL** |  | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |

# **section F: Contractor information *(if applicable)***

|  |  |  |  |
| --- | --- | --- | --- |
| Company Name | Click or tap here to enter text. | Contact Name | Click or tap here to enter text. |
| Company Street Address | Click or tap here to enter text. | Contact Title | Click or tap here to enter text. |
| Company City | Click or tap here to enter text. | Phone Number | Click or tap here to enter text. |
| Company State | Click or tap here to enter text. | Email | Click or tap here to enter text. |

# **section G: Project Funding**

**What is the estimated total cost of this project?** Click or tap here to enter text.

**What is the amount of funding you are requesting from MEA?** Click or tap here to enter text.

**Does your electric utility offer an incentive program for data center energy efficiency measures?**  Yes  No

**Indicate the status of your application to this utility program:** Choose an item.

|  |  |  |  |
| --- | --- | --- | --- |
| Amount of potential funding: $ | Click or tap here to enter text. | Expected date of award (if awarded): | Click or tap here to enter text. |

**Are there any other non-utility funding sources that you intend to leverage for this project?**If **yes**, provide details: Click or tap here to enter text.

**Please attach applications, award letters, or other documentation related to utility and other incentive programs.** Documentation is attached

Please attach a monthly project plan which includes a timeline of the proposed schedule for:

* The purchase of all materials required for all phases of your project
* The installation of all materials for all phases of your project
* The expected project completion date (no later than August 6, 2021)

The required monthly project plan is attached with this application.

# **section H: Showcasing**

Please explain in 250 words of less why your project should be selected for a grant and how your project can be used as a case study to showcase cost effective energy efficiency measures in Maryland Data Centers:

Click or tap here to enter text.

# **section I: Guidelines for Submission**

**Follow these steps for successful application submission:**

1. Ensure your application is complete and includes the information listed in the Application Checklist.
2. When you have completed your application, go to the File menu and select “Save As” and then “PDF”.
3. Rename your file using the following naming convention: “BUSINESSNAME\_MM.DD.YY\_MEA\_DCEEG”. For example, an application submitted by John Smith for ABC Company on January 10, 2020 would look like this: “ABCCompany\_01.10.20\_MEA\_DCEEG”.
4. Once the file has been saved and renamed, submit it online along with the supplemental documents at <http://energy.maryland.gov/business/Pages/incentives/DCEEG.aspx> and follow the link titled “**Click here to submit an application online.”**
5. Be sure to submit all supplemental documentation including: energy audits and/or analysis, specification sheets, utility bills, timeline, and **Agreement to Terms, Conditions, and Certifications.**
6. You should receive a confirmation email within 24 hours of your submission. If you do not receive a confirmation email within 24 hours, please contact [David.Giusti1@maryland.gov](mailto:david.giusti1@maryland.gov) or call (410) 537-4072.

# **section I: Agreement to Terms, Conditions, and Certification**

|  |  |
| --- | --- |
|  | Agreement to the Terms, Conditions, and Certifications of the program is required. |

**By signing this Application, I certify under penalty of perjury that the information provided in the electronic Application and all of its attachments is complete, accurate, and true. I further certify that I am authorized to submit this Application on behalf of the Applicant, and to agree to the terms and conditions stated below:**

1. Applications are accepted and grants are awarded on a competitive basis, with applications to be **submitted electronically no later than 11:59 p.m. Eastern Time, January 10, 2020.**
2. This facility is located in the State of Maryland, and all measures approved for a grant shall stay in Maryland in the facility in which they were installed.
3. Submission of this application does not guarantee that I will be awarded a grant for the proposed energy efficiency project.
4. The equipment for the proposed project shall not be purchased or installed prior to the execution of Grant Agreement.
5. The Data Center Energy Efficiency Grant Pilot Program requires that projects must be cost effective.
6. Grants are designed to cover up to 50% of the net customer cost after other incentives and grants have been applied.
7. The Maryland Energy Administration (MEA) or its representative(s) may use photos and video of my facility, and data presented in my final report for marketing, publicity, and advertising purposes. MEA and its representatives, subject to the requirements of the Maryland Public Information Act, and other applicable laws, will not divulge any confidential information or trade secrets.
8. If this project is approved, the Applicant will provide MEA with a completed IRS W9 Form. All Applicant information on the W-9 Form must match the information provided on this Application.
9. The grant received through this program is taxable as income; therefore, the State of Maryland will be sending a 1099-G form, and shall be reported as income on federal and state tax returns. For more information, applicants should contact a qualified tax professional.
10. Representatives of the Grant Program may access my facility in order to conduct site inspections and measurement and verification activities, and to take photos or videos of the project.
11. Program Terms & Conditions are subject to change.
12. Any grant payment will be contingent upon the successful inspection of all equipment installed.
13. MEA and its contractors make no representation or warranty and assume no liability with respect to quality, safety, performance, or other aspect of any design, system, or appliance installed pursuant to this application, and expressly disclaim any such representation, warranty, or liability.
14. Program funding is limited as outlined in the Notice of Grant Availability MEA Data Center Energy Efficiency Grant Program document.
15. Effective October 1, 2019, Chapter 757 of the 2019 Acts of the General Assembly of Maryland will require any new loan or grant funded by the Strategic Energy Investment Fund (SEIF) to a unit of State or local government to comply with §14-416 and §17-303 of the State Finance and Procurement Article. Applicants affected by this requirement should take it into account when developing FY20 applications to SEIF-funded programs. FY20 SEIF-funded grant agreements will contain a section outlining the American Manufactured Goods requirements with which impacted grantees will be required to comply.
16. Effective October 1, 2019, Chapter 757 of the 2019 Acts of the General Assembly of Maryland will require at least 80% of workers participating in a SEIF-funded project or program to reside within 50 miles of the project or program. As the SEIF funds a statewide program, MEA will determine compliance based on whether at least 80% of workers participating in a SEIF-funded project reside in Maryland, or within 50 miles of Maryland’s borders. Applicants should take this new requirement into account when developing FY20 applications to SEIF-funded programs. FY20 SEIF-funded grant agreements will contain a section further outlining this requirement, including any documentation of compliance that will be required before grant funds are disbursed.

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| --- | --- | --- | --- | --- |
| Authorized Applicant | | Contractor/Vendor\* | | |
| Authorized Signature: |  | Contractor Signature: |  |
| Name: | Click or tap here to enter text. | Name: | Click or tap here to enter text. |
| Title: | Click or tap here to enter text. | Title: | Click or tap here to enter text. |
| Organization Name: | Click or tap here to enter text. | Business Name: | Click or tap here to enter text. |
| Date: | Click or tap here to enter text. | Date: | Click or tap here to enter text. |

*\* If the contractor/vendor completed the application*

MEA anticipates receiving more applications than it will be able to fund under this program.

**If you are not selected for the Grant Program, does MEA have your permission to refer your application to alternative funding sources and incentive programs?**

Yes  No

*If yes, these sources may contact you regarding your application.*