

**American Electric Power Service Corporation  
as agent for  
Indiana Michigan Power Company**

**Request for Proposals**

Approximately 800 MWac of nameplate rated  
**Wind Energy Resources,**  
*(with Optional Battery Energy Storage Systems)*

Approximately 500 MWac of nameplate rated  
**Solar Energy Resources,**  
*(with Optional Battery Energy Storage Systems)*

**Supplemental Capacity to Meet Overall Capacity Need from  
Standalone Storage, Emerging Technologies, Thermal,  
and Other Capacity Resources**

*The Resources requested via this RFP will be acquired via Purchase and Sale Agreements (PSA) for purchase of 100% of the equity interest of the Project's limited liability company (Project LLC) at Mechanical Completion for solar projects (or other ITC qualifying projects), and on or about final completion for wind projects (or other Non-ITC qualifying projects)*

**OR**

*Power Purchase Agreements (PPA) for purchase of the Renewable Energy Products produced by a Solar and/or Wind Energy Resource and Supplemental Capacity Products produced by Supplemental Capacity Resources.*

**RFP Issued: March 10, 2022  
Proposals Due: April 21, 2022**

Web Address: <https://www.IMAllSourceRFP.com>

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**BACKGROUND**

I&M is pursuing additional generation and capacity resources consistent with its 2021 IRP via an all-source request for proposals (RFP) as follows:

- Approximately 800 MW Wind via a purchase and sale agreement (PSA) for purchase of 100% equity interest in a project company or a power purchase agreement (PPA) for purchase of Renewable Energy Products produced by a Wind resource
- Approximately 500 MW Solar via a purchase and sale agreement (PSA) for purchase of 100% equity interest in a project company or a power purchase agreement (PPA) for purchase of Renewable Energy Products produced by a Solar resource
- Supplemental Capacity Resources to meet overall capacity need via a purchase and sale agreement (PSA) for purchase of 100% equity interest in a project company or a power purchase agreement (PPA) for purchase of Supplemental Capacity Products produced by a Supplemental Capacity Resource

**1. Introduction**

American Electric Power Service Corporation (AEPSC) and Indiana Michigan Power Company (I&M, Company or Indiana Michigan Power) are subsidiaries of American Electric Power Company, Inc. (AEP).

AEPSC is administering this Request for Proposals (RFP) on behalf of I&M. Affiliates of AEP and I&M (Affiliate) are not permitted to participate in this RFP.

American Electric Power is one of the largest electric utilities in the United States, delivering electricity and custom energy solutions to approximately 5.5 million customers in 11 states. AEP owns the nation's largest electricity transmission system, a more than 40,000-mile network that includes more 765-kilovolt extra-high voltage transmission lines than all other U.S. transmission systems combined. AEP also operates 223,000 miles of distribution lines. AEP ranks among the nation's largest generators of electricity, owning approximately 30,000 megawatts of generating capacity in the U.S. AEP also supplies over 5,300 megawatts of renewable energy to customers. AEP's utility units operate as AEP Ohio, AEP Texas, Appalachian Power (in Virginia and West Virginia), AEP Appalachian Power (in Tennessee), Indiana Michigan Power, Kentucky Power, Public Service Company of Oklahoma, and Southwestern Electric Power Company (in Arkansas, Louisiana and east Texas). AEP's headquarters are in Columbus, Ohio. More information about AEP can be accessed by visiting [www.aep.com](http://www.aep.com).



Indiana Michigan Power Company, headquartered in Fort Wayne, IN, encompasses the AEP service territories in Indiana and Michigan. I&M serves over 470,000 Indiana customers and 130,000 Michigan customers. Currently I&M has approximately 5,400 MW of generating capacity.

I&M’s current generation portfolio mix includes the following:

**BASE LOAD - 4,760 MW.** Resources include the coal-fired Rockport Plant (2,620 MW) located in Rockport, IN; and the Cook Nuclear Plant (2,278 MW) located in Bridgman, MI.

**HYDRO CAPACITY - 22.4 MW.** I&M owns six hydro plants across Indiana and Michigan. (See Table 1).

**WIND RESOURCES - 450 MW.** I&M has 450 MW of long-term renewable energy purchase agreements (REPA) with wind generation resources located in the state of Indiana (See Table 2).

**UNIVERSAL-SCALE SOLAR – 34.7 MW.** I&M’s Clean Energy Solar Pilot Project (CESPP) consists of four separate solar facilities totaling 14.7 MWs. All four solar facilities achieved commercial operation by the end of 2016 and currently operating as designed. Additionally, St. Joseph Solar Farm, a 20 MW solar facility in the South Bend area, achieved commercial operation in 2021.

| <b>Table 1 (Hydro Plants)</b> |                   |                                  |
|-------------------------------|-------------------|----------------------------------|
| <b>Facility Name</b>          | <b>Name-Plate</b> | <b>Location – State (County)</b> |
| Elkhart                       | 3.4 MW            | IN (Elkhart)                     |
| Twin Branch                   | 4.8 MW            | IN (St. Joseph)                  |
| Constantine                   | 1.2 MW            | MI (St. Joseph)                  |
| Mottville                     | 1.7 MW            | MI (St. Joseph)                  |
| Buchanan                      | 4.1 MW            | MI (Berrien)                     |
| Berrien Springs               | 7.2 MW            | MI (Berrien)                     |
| Total                         | <b>22.4 MW</b>    |                                  |

| <b>Table 2 (Wind REPAs)</b> |                   |                                  |
|-----------------------------|-------------------|----------------------------------|
| <b>Facility Name</b>        | <b>Name-Plate</b> | <b>Location – State (County)</b> |
| Fowler Ridge I              | 100 MW            | IN (Benton, Tippecanoe)          |
| Fowler Ridge II             | 50 MW             | IN (Benton, Tippecanoe)          |
| Wildcat                     | 100 MW            | IN (Madison, Tipton)             |
| Headwaters                  | 200 MW            | IN (Randolph)                    |
| Total                       | <b>450 MW</b>     |                                  |

| <b>Table 3 (Solar Assets Owned)</b> |                   |                                  |
|-------------------------------------|-------------------|----------------------------------|
| <b>Facility Name</b>                | <b>Name-Plate</b> | <b>Location – State (County)</b> |
| Deer Creek                          | 2.5 MW            | IN (Grant)                       |
| Twin Branch                         | 2.6 MW            | IN (St. Joseph)                  |
| Olive                               | 5.0 MW            | IN (St. Joseph)                  |
| Watervliet                          | 4.6 MW            | MI (Berrien)                     |
| St. Joseph                          | 20.0 MW           | IN (St. Joseph)                  |
|                                     | <b>34.7 MW</b>    |                                  |

In addition to its generation portfolio, I&M has approximately 5,300 miles of transmission and 20,500 miles of distribution lines. Additional information regarding I&M can be accessed by visiting [www.indianamichiganpower.com](http://www.indianamichiganpower.com).

## 2. RFP Overview

- 2.1. I&M is pursuing additional solar and wind generation resources as identified in its 2021 IRP to be submitted in January 2022 in Indiana and filed in February 2022 in Michigan. Though the IRP has identified specific MW buildouts of solar and wind resources, the Company may pursue more of any resource type as result of its RFP process, as detailed in Section 9.4.
- 2.2. I&M is requesting Proposals which will result in obtaining approximately 800 MW of nameplate rated Wind Energy Resources, 500 MW of nameplate rated Solar Resources, and Supplemental Capacity Resources to meet overall capacity need. The Projects sought through this RFP are to satisfy the IRP requirements through 2026. Depending on the results of the RFP, the Company may pursue additional resources. The minimum nameplate rated bid size for this RFP is 20 MWac.
- 2.3. Supplemental Capacity Resources include Standalone Storage, Emerging Technologies, Thermal, and Other Capacity Resources.
- 2.4. As an alternate Proposal for a standalone Solar or Wind energy resource, Bidders may include a Proposal for a Solar or Wind energy resource with a battery energy storage system (BESS Option). Standalone BESS proposals will also be accepted in this RFP.
- 2.5. The Resources requested via this RFP will be acquired via Purchase and Sale Agreements (PSA) for purchase of 100% of the equity interest of the Project's limited liability company (Project LLC) at Mechanical Completion for solar projects (or other ITC qualifying projects), and on or about final completion for wind projects (or other Non-ITC qualifying projects) or Power Purchase Agreements (PPA) for purchase of the Renewable Energy Products produced by a Solar and/or Wind Energy Resource and Supplemental Capacity Products produced by a Supplemental Capacity Resource. I&M will not consider proposals in this RFP that do not meet these criteria.
- 2.6. For PSA Proposals, while qualifying for Federal Tax Credits is not an Eligibility and Threshold Requirement (§9.1) for participating in the RFP, the value brought to the Proposals in buying down the cost of energy by utilization of these tax credits is significant, and is included in the Company's Economic Analysis (§9.2) and ranking of each of the respective Proposals.
- 2.7. Affiliates of AEP and I&M (Affiliate) are not permitted to participate in this RFP.

- 2.8. I&M may explore establishing a tax partnership structure with one or more of the selected proposals either individually or as a portfolio.
- 2.9. I&M may execute one or more Solar, Wind, or Supplemental Capacity Resource Project PSAs or PPAs as a result of this RFP.
- 2.10. Any Project(s) with which I&M moves forward as a result of this RFP will be subject to I&M's receipt of the necessary regulatory approvals.
- 2.11. I&M has engaged Charles River Associates (CRA) to serve as an Independent Monitor for the RFP. Overall, CRA will serve in a lead role with respect to the stakeholder engagement processes associated with the RFP, ensuring that stakeholder input is incorporated into the competitive procurement process, screening RFP responses, and monitoring AEP/I&M's efforts associated with the development, issuance, and evaluation of the bids (pursuant to all jurisdictional requirements set forth by the Indiana Utility Regulatory Commission "IURC" and the Michigan Public Service Commission "MPSC").
- 2.12. All questions regarding this RFP should be emailed to:

*IMailSourceRFP@CRAI.com*

CRA will post a list of the non-confidential "Questions and Answers" at its website on a weekly basis following the issuance of the RFP until the Proposal Due Date.

- 2.13. This RFP is not a commitment by the Company to acquire any Project or purchase Renewable Energy Products or Supplemental Capacity Products from any Project, and it does not bind the Company or its Affiliates in any manner. The Company in its sole discretion will determine which Bidders, if any, it wishes to engage in negotiations with that may lead to definitive PSA or PPA agreements with one or more selected Projects.

### **3. Product Description and Requirements**

- 3.1. PSA Completed Projects: For PSA Proposals, each Project must be a complete, commercially operable, integrated electric generating plant, including all facilities that are necessary to generate and deliver energy into 1) PJM (PJM Interconnection L.L.C), 2) MISO (Midcontinent Independent System Operator) with firm deliverability rights into PJM, or 3) I&M's Distribution System by the Expected Commercial Operation Date.
- 3.2. PPA Products: For PPA Proposals, the Company is seeking to purchase the Renewable Energy Products and Supplemental Capacity Products from a low cost Product to deliver energy into 1) PJM, 2) MISO with firm deliverability rights into PJM, or 3) I&M's distribution electrical system via a PPA.

- 3.2.1. Renewable Energy Products shall include:
- 3.2.1.1. Energy
  - 3.2.1.2. Capacity
  - 3.2.1.3. Ancillary Services (if available)
  - 3.2.1.4. Environmental Attributes
- 3.2.2. Supplemental Capacity Products shall include:
- 3.2.2.1. Energy
  - 3.2.2.2. Capacity
  - 3.2.2.3. Ancillary Services (if available)
  - 3.2.2.4. Environmental Attributes (if available)
- 3.3. Expected Commercial Operation Date (COD): The Company is pursuing Projects that can achieve an Expected Commercial Operation Date (COD) by 12/15/2024 or 12/15/2025 to meet I&M's capacity obligation for PJM capacity planning years 2025-2026 or 2026-2027. I&M has a preference for Projects that can achieve a COD by 12/15/2024.
- 3.4. Size: The I&M RFP is seeking approximately 800 MWac nameplate rated Wind generation resources, approximately 500 MWac nameplate rated Solar generation resources, and Supplemental Capacity Resources to meet overall capacity need. The ultimate amount of any one type of resource selected will depend on AEP's scoring of all projects received.
- 3.5. Minimum Acceptable Project Size: 20 MWac.
- 3.6. Location: Projects must be located in the states of Indiana or Michigan (or Illinois for Wind Projects) and interconnect to 1) PJM, 2) MISO with firm deliverability rights into PJM, or 3) I&M's Distribution System. I&M has a preference for Projects that provide economic benefit to the states of Indiana or Michigan.
- 3.7. Local Content: I&M encourages the use of local goods or services sourced, in whole or in part, from one or more Indiana or Michigan businesses where feasible. The bidder should identify these resources in their proposal.
- 3.8. Project Development:
- 3.8.1. In addition to AEP Generation Facility Standards (See Sections 6.4 and 6.5 for instructions to obtain) each Project must satisfy the following as applicable:
    - Wind Project turbines must be manufactured by GE, Vestas, or Siemens-Gamesa (see Appendix F).
    - Solar panels and inverters must be manufactured by those approved vendors in the AEP Generation Facility Standard (see Appendix F).

- Battery Energy Storage Systems must satisfy the AEP Battery Energy Storage System Technical Specification and Design Criteria (Appendix F)
  - For non-wind/solar generation, the asset shall be, or have been, built using utility grade equipment, components and materials. The asset design shall incorporate prudent utility features for maintainability and safe reliable operation.
  - Thermal generating units are required to have low carbon emissions or mitigating technology.
  - Emerging Technology must have demonstrated feasibility, be commercialized, and qualify as a Capacity Resource under the PJM Tariff.
- 3.8.2. Wind Projects: Each Wind Project must have a robust wind resource analysis/study prepared by an independent consultant, which shows the expected energy output from the Project utilizing the turbines that will be used for the Project. Such analysis should include P50, P75, P90, P95 and P99 output with 1-year, 5-year, 10-year, 20-year and 30-year estimates. Bidders will be required to provide site information, including raw meteorological data to the Company for use by the Company's independent consultant (Appendix H).
- 3.8.3. Solar Project: Bidders are required to submit all required Solar Resource Information (Appendix I).
- 3.8.4. Standalone Storage Projects: Bidders are required to submit all required Standalone Storage Resource Information (Appendix J).
- 3.8.5. Thermal Projects: Bidders are required to submit all required Thermal Resource Information (Appendix K).
- 3.8.6. Emerging Technology Projects: Bidders are required to submit all required Emerging Technology Resource Information (Appendix L).
- 3.8.7. New Wind and Solar Projects must have a minimum design life of 30 years. The design life for Supplemental Capacity Resources is technology dependent with a preference for 30 years and a minimum of 15 years.
- 3.8.8. Wind or Solar with BESS Option: Bidders may include in their Solar or Wind proposals, as an option, a Bid Price for a Solar or Wind energy resource with a battery energy storage system (BESS). The optional BESS must be 1) within a ratio of 5:1 to 3:1 of the nameplate rating (MWac) of the Solar or Wind energy resource to the nameplate rating (MWac) of the BESS and, 2) for 4 to 8 hours of capacity.

- 3.8.9. BESS Co-located with Existing I&M Solar Facilities: I&M will accept Proposals for BESS Projects that can enhance existing I&M Solar facilities with storage capability.
- 3.8.10. Bidder must have established site control of the proposed Project. Site control must be in the form of direct ownership, land lease, land lease option or easement. A letter of intent will not be an acceptable form of demonstrated site control. Projects co-located with existing I&M Solar Facilities will be deemed to have established site control.
- 3.8.11. Proposals that include the use of Union Labor are preferred by I&M, but Proposals with non-Union Labor will be accepted.
- 3.8.12. Bidder shall use reasonable efforts to utilize and adopt a subcontracting plan to use small and diverse suppliers as subcontractors for work.

3.9. Interconnection:

- 3.9.1. Project must be interconnected to:
  - 1) PJM, or
  - 2) MISO with Bidder being responsible for securing Firm Transmission from the project in MISO to PJM, or
  - 3) I&M's distribution electrical system.
- 3.9.2 Projects in PJM must have a completed PJM System Impact Study.
- 3.9.3 Projects interconnecting to MISO must have completed Phase 3 of MISO's Definitive Planning Phase and have the Final DPP SIS and Network Upgrade Facilities Study and have secured Firm Transmission into PJM.
- 3.9.4 Projects interconnecting to I&M's distribution electrical system must have a completed Distribution Impact Study from the I&M Distribution Planning Group.
- 3.9.5 BESS Projects co-located with existing I&M Solar Facilities are required to have either 1) a completed system impact study, or 2) established capacity injection rights into PJM
- 3.9.6 The interconnection point with PJM or I&M's distribution electrical system will be the Point of Delivery.
- 3.9.7 Bidders are responsible for following the established policies and procedures that are in effect regarding facility interconnection and operation with the interconnecting utility, PJM, or MISO, as applicable.

3.9.8 The Bidder is responsible for all costs associated with transmission interconnections and system upgrades as required by the interconnecting utility, PJM, or MISO as applicable. Bidders of Projects located in MISO are also responsible for any costs associated with obtaining Firm Transmission to PJM.

#### **4. PSA Bid Price and Structure:**

4.1. Proposal pricing must be for the Company's acquisition of a turnkey Project that is a complete, commercially operable, and integrated electric generating plant:

4.1.1. Wind Projects must be designed for a minimum 30-year life. Pricing for Wind Projects must include, but is not limited to, approved wind turbine generators with 30-year life certification (as sited) from manufacturer, balance of plant equipment, O&M facilities, SCADA, IT, all facilities required to deliver energy into PJM or MISO. In addition, pricing must include costs associated with ALTA/title insurance and construction financing.

4.1.2. Solar Projects must be designed for a minimum 30-year life. Pricing for Solar Projects must include, but is not limited to, solar modules, inverters, tracking system, balance of plant equipment, operations and maintenance facilities (if applicable), SCADA and all facilities required to deliver energy into PJM or MISO. In addition, pricing must include costs associated with ALTA/title insurance and construction financing. Solar Resources.

4.1.3. Supplemental Capacity Resources will have a design life that is technology dependent with a preference for 30 years and a minimum of 15 years. Supplemental Capacity Projects must include, but is not limited to, balance of plant equipment, O&M facilities, SCADA, IT, all facilities required to deliver energy to the point of interconnection. In addition, pricing must include costs associated with ALTA/title insurance and construction financing.

4.2. In addition to Section 4.1, Proposal pricing must include the costs associated with the following:

4.2.1. A minimum of two-year comprehensive warranty from a creditworthy entity for all equipment, including design, labor and materials, and fitness for purpose;

4.2.2. Post-commercial operation testing activities and associated costs, including the installation and removal of any temporary test meteorological stations (wind only); and

4.2.3. Transmission and interconnection facilities required for the Project, including system or network upgrades, as required by PJM or MISO. Bidders of Projects located in MISO are also responsible for any costs associated with obtaining Firm Transmission to PJM.

- 4.2.4. Pricing shall include ALL costs associated with the development, engineering, procurement, construction, commissioning and applicable testing of the facility.
- 4.2.5. Pricing shall include transfer of all property rights and/or any land lease(s) / easements. (Land hosting either the O&M facility or a project substation must owned and not leased.)
- 4.3. Proposal Bid Price shall not be contingent upon awarding an Operations and Maintenance Agreement for the Project.
- 4.4. Solar Projects and Other ITC Qualifying Projects: The PSA will be for the purchase of 100% of the equity interest of the Project LLC. Three payments under the PSA will be made at Mechanical Completion, Substantial Completion, and Final Completion (See Appendix D – Form Purchase and Sale Agreement for definitions and additional details). The Company will not make any progress payments prior to Mechanical Completion.
- 4.5. Wind Projects and Other Non-ITC Qualifying Projects: The PSA will be for the purchase of 100% of the equity interest of the Project LLC at the completion and commissioning of the Project. Payment by I&M to the Bidder will be at or near the Commercial Operation Date (COD). The Company will not make any progress payments.
- 4.6. Prices must be firm, representing best and final bid. Proposals and bid pricing must be valid for at least 180 days after the Proposal Due Date.

## **5. PPA Bid Price and Structure**

- 5.1. Seller shall use Appendix A and any other attachments as needed to fully articulate the pricing of its Proposal.
- 5.2. Wind and Solar Resources: The Bid Price must be for a bundled Renewable Energy Product as described in Section 3.2.1. The Bid Price shall be on an “as-available” per MWh basis with no separate payment for any Renewable Energy Products.
- 5.2.1. Bid Price must be a fixed, non-escalated, “all-in”, around-the-clock price (\$/MWh) for the entire term of the agreement.
- 5.2.2. Pricing must include all capital costs, fixed and variable O&M costs, taxes and any other costs associated with delivering the full contracted energy output of the facility to the bid-specified Point of Delivery.
- 5.2.3. BESS Option Bid Pricing must include all costs described in Section 5.2.2 for both the “solar or wind” energy resource and the BESS necessary to give the Company the right to dispatch and operate the BESS. The Company shall have the right to dispatch the BESS at its discretion (within operating limitations) and for its benefit.

- 5.3. Supplemental Capacity Resources: Bidders shall specify in detail all pricing components related to their Proposal for each Supplemental Capacity Product, including contracted capacity.
- 5.3.1. Proposals that have material contingencies as determined by I&M, such as for financing and/or credit related issues, will not be considered.
  - 5.3.2. Bidders should specify any necessary fuel adders associated with their Proposal, including current fuel arrangements and pricing mechanisms.
- 5.4. Bidders are required to include a Proposal with pricing for a 30-year term. Any alternate Proposals to the 30-year pricing must be for a term of at least 15 years.
- 5.5. Proposals must include a buyout option for I&M to purchase the Resource at the end of the PPA term and a first right to purchase the Resource should the bidder elect to sell the resource. The provision to exercise such a right to purchase will be included in the terms of the executed PPA with any selected project. The exercising of any such right will be contingent upon, at a minimum, notice from I&M to exercise the right, any due diligence inspections required by I&M, and approval from all applicable regulatory authorities.
- 5.6. The Company will pay for Renewable Energy Products and Supplemental Capacity Products prior to the Delivery Period at the Real-Time Locational Marginal Price (\$/MWh) at the Point of Delivery less any associated PJM charges.
- 5.7. All costs associated with distribution and/or transmission interconnection (as applicable) and interconnection facilities required for the Project, including any system upgrades, as required by I&M, PJM, or MISO (including Firm Transmission) up to the Point of Delivery, shall be included in the Bidder's pricing where appropriate under current FERC orders and rulings.
- 5.8. Prices must be firm, representing best and final bid. Proposals and bid pricing must be valid for acceptance at least 180 days after the Proposal Due Date.

**6. RFP Schedule and Proposal Submission**

- 6.1. The schedule and deadlines set out in this section apply to this RFP. I&M reserves the right to revise this schedule at any time and at its sole discretion.

|  |  |
|--|--|
| RFP Issued   | 3/10/2022                              |
| Proposal Due Date                                  | 4/21/2022                              |
| Bidder(s) Selected for Final Contract Negotiations | 7/5/2022                               |
| Contract Execution                                 | November 2022                          |
| State Regulatory Approval Filings                  | IN: December 2022<br>MI: February 2023 |
| Receipt of Full Regulatory Approval Order(s)       | April 2023                             |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Seller Conditions to NTP achieved | June 2023                      |
| Notice to Proceed (NTP)           | June 2023                      |
| Commercial Operation by           | December 2024 or December 2025 |

- 6.2. Proposals must be complete in all material respects and received no later than 3 p.m. EPT on the Proposal Due Date at AEPSC’s Columbus, OH location as defined in Section 7 of this RFP.
- 6.3. Proposals should include an electronic copy of all PJM, MISO, or I&M Studies completed to date for the Project.
- 6.4. Bidders will be required to sign a Confidentiality Agreement (CA) prior to receiving the following documents:
- Form PSA (Appendix D)
  - Form PPA (Appendix E)
  - AEP Generation Facility Standard (Appendix F)
  - AEP Battery Energy Storage System Technical Specification and Design Criteria (Specification Number GEN-4570) (Section 3.7.9)
  - AEP Design Criteria for Battery Energy Storage Systems Fire Safety (Document Number: DC-FP-BATT) (Section 9.14)
  - WindEnergyInputSheet\_2022.xls (Appendix H)
  - SolarDataReviewForm\_IM.xls and SolarEnergyInputSheet\_2022.xls (Appendix I)
  - StorageDataReviewForm\_IM.xls (Appendix J)
  - ThermalDataReviewForm\_IM.xls (Appendix K)
  - EmergingTechDataReviewForm\_IM.xls (Appendix L)
  - Projected Land Lease Costs spreadsheet (Appendix M)
  - Project Technical Due Diligence Material (Appendix N)
  - Technical Data on Existing I&M Solar Resources (Appendix O)
- 6.5. Bidder should request I&M’s Form CA by emailing I&M2022RFP@aep.com and Cc IMAllSourceRFP@CRAI.com and including the following documentation:
- Verification of Site Control as required by Section 3.8.10.
  - Completed interconnection study as follows:
    - PJM Projects: Completed PJM System Impact Study as required by Section 3.9.2 and 3.9.5, or
    - MISO Projects: Completed Final DPP SIS and Network Upgrade Facilities Study and Firm Transmission into PJM as required by Section 3.9.3, or
    - I&M Distribution Projects: Completed I&M Distribution Impact Study as required by Section 3.9.4.

- 6.6. I&M reserves the right to solicit additional proposals, if it deems necessary to do so, and the right to submit additional information requests to Bidders during the evaluation process.
- 6.7. Proposals and bid pricing must be valid for at least 180 days after the Proposal Due Date at which time Proposals shall expire unless the Bidder has been notified that its Proposal has been included in the Short-List.
- 6.8. A Proposal should be as comprehensive as possible to enable the Company to make a definitive and final evaluation of the Proposal's benefits to its customers without further contact with the Bidder.

## **7. Proposal Submittal**

Bidder's Proposal shall be submitted by the Proposal Due Date. I&M and CRA anticipate supporting electronic filing mechanisms. However, specific details of the filing mechanisms are not determined at this time.

## **8. Proposal Content**

Bidders must submit the following information for Proposals. All electronic versions of the Appendices shall be individual files.

- 8.1. A completed Appendix P (Proposal Content Check Sheet).
- 8.2. A cover letter signed by an authorized representative of the Bidding Company with a statement of firm pricing for 180 days after the Proposal Due Date.
- 8.3. An executive summary of the Project's characteristics and timeline, including any unique aspects and benefits.
- 8.4. Summary documentation demonstrating how the Project will qualify for the PTC for Wind Projects; or the ITC for Solar Projects (and other ITC qualifying projects) under Section 45 of the Internal Revenue Code of 1986, as amended. Bidder shall provide a detailed plan regarding the steps taken to date and future actions required to satisfy IRS Safe Harbor requirements.
- 8.5. Completed Appendix A (Project Summary).
- 8.6. Detailed information regarding the equipment (e.g. wind turbine, solar module, inverter, battery energy storage resource, etc.) manufacturer's warranty offering including parts and labor coverage and other key terms.
- 8.7. The identity of all persons and entities that have a direct or indirect ownership interest in the Project.

- 8.8. A completed Appendix B (Bidder's Credit-Related Information).
- 8.9. A completed Appendix C (Bidder Profile). Bidders must provide a general description of its (including its affiliates) background and experience in the development and construction of at least three projects similar to the Projects sought by the Company in this RFP. In addition, Bidders should provide at least three third-party references for such projects.
- 8.10. A complete list of the Bidder's commercial, legal, and other exceptions to the terms and conditions contained in the applicable Form Purchase Sale Agreement or Form Power Purchase Agreement (Appendix D or Appendix E).
- 8.11. A list of any exceptions it takes to the applicable AEP Generation Facility Standard (Appendix F).
- 8.12. Any exceptions to AEP Requirements for Connection of Facilities (Appendix G).
- 8.13. All required Resource Analysis / Study Information for the corresponding resource type (Appendix H, Appendix I, Appendix J, Appendix K, or Appendix L).
- 8.14. Bidder's Proposal shall include expected Land Lease Costs by year for a 30-year operating period (See Appendix M for "Land Lease Costs"). The Land Lease costs will be used in the Economic Analysis (Section 9.2).
- 8.15. Battery Energy Storage System (BESS) Option: Bidder's providing an alternate Proposal for a Solar or Wind energy resource with a BESS shall provide this option separate from the base Solar or Wind energy resource only Proposal. This optional Proposal shall include all applicable information from Section 8 in addition to technical, operating, performance, and warranty details associated with the BESS. Any BESS offered shall comply with the AEP Design Criteria for Battery Energy Storage Systems Fire Safety (Document Number: DC-FP-BATT). This document will be provided to Bidders subsequent to execution of a CA (See Section 6.4).
- 8.16. Bidder shall provide its plan to use reasonable efforts to utilize and adopt a subcontracting plan to use small and diverse suppliers as subcontractors for work (Section 3.8.12).

## **9. RFP Proposal Evaluation**

Proposals must include ALL applicable content requirements as described in Section 8. I&M will consider bids that are reliable, feasible and represent the reasonable cost means of satisfying the requirements of this RFP. The Evaluation Process, which includes four main steps, is central to the success of I&M's RFP process.

Section 9.1: Eligibility and Threshold Requirements

Section 9.2: Economic Analysis

Section 9.3: Non-Price Analysis  
Section 9.4: Resource Selection  
Section 9.5: Short-Listed Proposals

9.1 Eligibility and Threshold Requirements: If the Bidder does not qualify under any one of the Sections 9.1.1 – 9.1.12, the Bidder will not qualify for this RFP and will be notified accordingly.

9.1.1 Proposal must be for a Purchase and Sale Agreement or Power Purchase Agreement for a Wind, Solar, or Supplemental Capacity Resource (§2.5).

9.1.2 Projects must have an Expected COD by 12/15/2024 or 12/15/2025 (§3.3).

9.1.3 Project must have a minimum nameplate rating of 20 MWac (§3.5).

9.1.4 Projects must be located in IN, MI, or IL for Wind, or IN or MI for Solar and Supplemental Capacity Resources (§3.6).

9.1.5 Bidder must have 1) a completed PJM System Impact Study (§3.9.2 and §3.9.5) which remains active in the PJM queue, 2) a completed MISO Final DPP SIS and Network Upgrade Facilities Study and Firm Transmission from the Project into PJM (§3.9.3), or 3) a completed I&M Distribution Impact Study (§3.9.4)

9.1.6 Bidder must have established Site Control (§3.8.10).

9.1.7 Project Specific (§3.8.1)

9.1.7.1 Wind Projects: Turbines must be manufactured by GE, Vestas, or Siemens-Gamesa

9.1.7.2 Solar Projects: Solar panels and inverters must be manufactured by approved vendors in the AEP Generation Facility Standard for Solar Facilities

9.1.7.3 Standalone Storage Projects: Asset shall be, or have been, built using utility grade equipment, components and materials. The asset design shall incorporate prudent utility features for maintainability and safe reliable operation. Battery Energy Storage Systems must be manufactured by approved vendors in the AEP Generation Facility Standard for BESS Facilities

9.1.7.4 Thermal Projects: Asset shall be, or have been, built using utility grade equipment, components and materials. The asset design shall incorporate prudent utility features for maintainability and safe reliable operation. In addition, assets must have low carbon emissions or have accompanying

mitigating technology. Thermal Projects considered low carbon emissions projects may include Natural Gas, Biomass, and Biofuels Technologies

9.1.7.5 Emerging Technology Projects: Asset shall be, or have been, built using utility grade equipment, components and materials. The asset design shall incorporate prudent utility features for maintainability and safe reliable operation. In addition, Emerging Technology Projects must be for a proven technology and be commercially feasible.

9.1.8 Resource Information: Bidder must submit all required Resource Studies / Information listed in Appendix H (wind), Appendix I (solar), Appendix J (Standalone Storage), Appendix K (Thermal), and Appendix L (Emerging Technology) for the proposed resource type (§3.8.2 – §3.8.6).

9.1.9 Project life must be designed for a minimum of 30 years for Wind and Solar (§3.8.7) and meet technology design life standard for Supplemental Capacity Resources

9.1.10 Bidder or its affiliates shall have completed the development, engineering, equipment procurement and construction of a project, within the United States or Canada, of the same technology type, and of a size equal to or greater than the Bidder's proposed Project and/or have demonstrated appropriate experience (Appendix A). Bidder is required to include requested financial information (Appendix B) so that AEP's credit department can conduct a financial wherewithal assessment.

9.1.11 Bidder's exceptions to the Form PSA and Form PPA shall be complete and, considered individually or in the aggregate, are minimally acceptable to the Company as a basis for further discussions (§8.10). I&M reserves the right to disqualify any Bidder who provides an incomplete list of exceptions (for example, by noting that the Bidder's exceptions list has not been reviewed by certain commercial, functional or legal reviewers and may be supplemented with additional exceptions on further review).

9.1.12 Proposal must include detailed exceptions, if any, to the applicable AEP Generation Facility Standard in Appendix F. (§8.11).

9.2 Economic Analysis: During the Economic Analysis phase, I&M will determine six key price evaluation metrics for each of the Proposals:

1. Levelized Adjusted Cost of Energy (LACOE)
2. Levelized Adjusted Cost of Capacity (LACOC)
3. Levelized Adjusted Net Cost of Energy (LANCOE)
4. Levelized Adjusted Net Cost of Capacity (LANCOC)
5. Net Value
6. Value to Cost Ratio

These metrics and intermediate terms used in the calculation of these metrics are defined below

- 9.2.1 **Total Cost:** I&M will determine the present value of all the costs of each qualifying Proposal. This total cost calculation is based on the Proposal's Bid Price (\$M), Operations and Maintenance Costs (including Land Lease costs), Tax Expenses, Fuel Costs, Cost of Energy for Charging Storage, Decommissioning Costs (including expected salvage and terminal value), and applicable Federal Tax Credit (Wind – Production Tax Credit, Solar – Investment Tax Credit). To the extent the asset is not under I&M control at any point in the period, cost will reflect market purchases of bundled Renewable Energy Products and Supplemental Capacity Products. In addition, I&M will include the debt equivalence cost of PPAs and transmission congestion cost as determined by the Company's distribution or transmission congestion screening analysis. Other costs may be included based on the Company's discretion to appropriately evaluate each Proposal. This may be done to ensure the Company is comparing all qualifying Proposals on an equivalent basis.
- 9.2.2 **Total Value:** I&M will determine the present value of all the value streams of each qualifying Proposal. This total value calculation is based on expected PJM revenues for the Proposal's energy, capacity, and any renewable energy certificates in the PJM market. Additionally, other value streams may be included based on the Company's discretion to appropriately evaluate each Proposal. This may be done to ensure the Company is comparing all qualifying Proposals on an equivalent basis.
- 9.2.3 **Net Value:** The Net Value will be calculated as the difference between Total Cost and Total Value
- 9.2.4 **Levelized Adjusted Cost of Energy:** The LACOE is calculated by dividing the Total Cost by the Proposal's expected lifetime energy output
- 9.2.5 **Levelized Adjusted Net Cost of Capacity:** The LACOC will be calculated by dividing the Total Cost by the Proposal's installed capacity rating
- 9.2.6 **Levelized Adjusted Net Cost of Energy:** The LANCOE will be calculated by dividing the Net Value by the Proposal's expected lifetime energy output
- 9.2.7 **Levelized Adjusted Net Cost of Capacity:** The LANCOC will be calculated by dividing the Net Value by the Proposal's installed capacity rating.
- 9.2.8 **Value to Cost Ratio:** The Value to Cost Ratio will be calculated by dividing the Net Value of the Proposal by the Net Cost of the Proposal.
- 9.3 **Non-Price Analysis:** I&M will consider all applicable factors including, but not limited to, the following to determine the viability of the Proposal:

- 9.3.1 Asset-Specific Benefits and Risks, including:
- Contract Term/Asset Life-Related Market Risks
  - Ownership Optionality and Flexibility Benefits
- 9.3.2 Development Status and Risks, including:
- Development Status, Interconnection Status, and Other Project Completion Risks
  - Project Timing
- 9.3.3 Environmental, Social, and Economic Impacts/Benefits, including:
- Carbon Emissions Goal
  - Environmental and Wildlife Impact/Permitting
  - Indiana and Michigan Economic Stimulus Benefits, Community Support, and Supplier/Contractor Diversity
- 9.3.4 Proposal/Project Quality, including:
- Bidder Experience and Financial Wherewithal
  - Exceptions to AEP Generation Facility Design Standards
  - Exceptions to Form PSA or PPA
- 9.4 Resource Selection: I&M will incorporate the results of its Economic and Non-Price Analyses determine an optimized short-list of Proposals through the following steps:
- 9.4.1 Step 1: I&M will group all Proposals by resource type within the following categories (Resource Type Group):
1. Wind (+BESS)
  2. Solar (+BESS)
  3. Supplemental Standalone Storage & Other Capacity Resources
  4. Supplemental Thermal Capacity
- 9.4.2 Step 2: I&M will calculate a first Composite Score, made up of LACOE / LACOC (60%) and Non-Price (40%), for each Proposal. The Proposals within each Resource Type Group will be ranked according to this first Composite Score.
- 9.4.3 Step 3: On the basis of the first Composite Score rankings, I&M will select up to 1,600 MW nameplate of Wind (+BESS), up to 1,000 MW nameplate of Solar (+BESS), and up to 100 MW of Supplemental Capacity Resources to carry into Step 4.
- 9.4.4 Step 4: I&M will calculate a second Composite Score on the Proposals selected from Step 3, made up of LANCOE / LANCOE (60%) and Non-Price (40%), for the purpose of comparing Proposals across Resource Type Groups. The Proposals will be ranked according to this second Composite Score. The Company will also

apply a Value-to-Cost metric as necessary to provide comparison for any significantly low capacity factor resources.

9.4.5 Step 5: I&M will select the Proposals from the Step 4 ranking to create a portfolio that meets the Company's Accredited Capacity Resource needs (Proposal Short List). Selection based on the Step 4 ranking could lead to I&M choosing more or less MW of wind or solar resources than originally planned.

9.5 Short-Listed Proposals: I&M will consider bids that are reliable, feasible and represent a reasonable cost means of satisfying the requirements of this RFP. I&M will identify one or more Short-Listed Bidders for further discussions and negotiations of one or more executable agreements. Bidders not selected to the Award Group will be notified promptly.

## 10. Reservation of Rights

A Proposal will be deemed accepted only when the Company and the successful Bidder have executed definitive agreements for the Company's acquisition of the Project. The Company has no obligation to accept any Proposal, whether or not the stated price in such Proposal is the lowest price offered, and the Company may reject any Proposal in its sole discretion and without any obligation to disclose the reason or reasons for rejection.

By participating in the RFP process, each bidder agrees that any and all information furnished by or on behalf of the Company in connection with the RFP is provided without any representation or warranty, express or implied, as to the usefulness, accuracy, or completeness of such information, and neither the Company nor its Affiliates nor any of their personnel or representatives shall have any liability to any bidder or its personnel or representatives relating to or arising from the use of or reliance upon any such information or any errors or omissions therein.

The Company reserves the right to modify or withdraw this RFP, to negotiate with any and all qualified Bidders to resolve any and all technical or contractual issues, or to reject any or all Proposals and to terminate negotiations with any Bidder at any time in its sole discretion. The Company reserves the right, at any time and from time to time, without prior notice and without specifying any reason and, in its sole discretion, to (a) cancel, modify or withdraw this RFP, reject any and all Proposals, and terminate negotiations at any time during the RFP process; (b) discuss with a Bidder and its advisors the terms of any Proposal and obtain clarification from the Bidder and its advisors concerning the Proposal; (c) consider all Proposals to be the property of the Company, subject to the provisions of this RFP relating to confidentiality and any confidentiality agreement executed in connection with this RFP, and destroy or archive any information or materials developed by or submitted to the Company in this RFP; (d) request from a Bidder information that is not explicitly detailed in this RFP, but which may be useful for evaluation of that Bidder's Proposal; (e) determine which Proposals to accept, favor, pursue or reject; (f) reject any Proposals that are not complete or contain irregularities, or waive irregularities in any Proposal that is submitted; (g) accept Proposals that do not provide the lowest evaluated cost; (h) determine which Bidders are allowed to participate in the RFP, including disqualifying a Bidder due to a

change in the qualifications of the Bidder or in the event that the Company determines that the Bidder's participation in the RFP has failed to conform to the requirements of the RFP; (i) conduct negotiations with any or all Bidders or other persons or with no Bidders or other persons; (j) execute one or more definitive agreements with any Bidder, and (k) utilize a Bidder's completed Appendices and any supplemental information submitted by the Bidder in any its regulatory filings.

## 11. Confidentiality

I&M will take reasonable precautions and use reasonable efforts to maintain the confidentiality of all bids submitted. Bidders should clearly identify each page of information considered to be confidential or proprietary. I&M reserves the right to release any proposals to agents or consultants for purposes of proposal evaluation. I&M's disclosure policies and standards will automatically bind such agents or consultants. Regardless of the confidentiality, all such information may be subject to review by or in proceedings before the appropriate state authority, or any other governmental authority or judicial body with jurisdiction relating to these matters and may be subject to legal discovery. Under such circumstances, I&M and AEPSC will make reasonable efforts to protect Bidder's confidential information.

## 12. Bidder's Responsibilities

- 12.1. It is the Bidder's responsibility to submit all requested material by the deadlines specified in this RFP.
- 12.2. The Bidder should make its proposal as comprehensive as possible so that I&M may make a definitive and final evaluation of the proposal's benefits to its customers without further contact with the Bidder.
- 12.3. Bidders are responsible for the timely completion of the project and are required to submit proof of their financial and technical wherewithal to ensure the successful completion of the project.
- 12.4. The Bidder will be responsible for any expenses Bidder incurs in connection with the preparation and submission of a Proposal and/or any subsequent negotiations regarding a Proposal in response this RFP. I&M will not reimburse Bidders for their expenses under any circumstances, regardless of whether the RFP process proceeds to a successful conclusion or is abandoned by I&M at its sole discretion.

## 13. Contacts

- 13.1. General RFP Questions: All correspondence and questions, with the exception of interconnection related questions, regarding this RFP should be directed to:  
To: I&M2022RFP@aep.com  
Cc: IMAAllSourceRFP@CRAI.com

13.2. PJM Interconnection: All correspondence and questions regarding the PJM Interconnection process can be found at:

*PJM Interconnection*

13.3. MISO Interconnection: All correspondence and questions regarding the MISO Interconnection process can be found at:

*MISO Interconnection*

## Appendix A

### Project Summary

#### *Company Information*

|  |             |           |
|--|-------------|-----------|
| Bidder (Company):  |             |           |
| Contact Name:  |             |           |
| Contact Title:   |             |           |
| Address:   |             |           |
| City:  | State:      | Zip Code: |
| Work Phone:  | Cell Phone: |           |
| Email Address:   |             |           |
| <p>Is the Proposal being submitted through a partnership, joint venture, consortium, or other association? _____ If so, please identify all partners, joint ventures, members, or other entities or persons comprising same.</p> |             |           |

#### *General Project Information*

|  |                   |
|--|-------------------|
| Project Name:  |                   |
| Resource Type:<br><i>(e.g. Wind, Solar, Standalone Storage, NG Simple Cycle, Combined Cycle, Pulverized Coal, CFB, Hydro, etc.):</i> |                   |
| Project site located (County, State):  |                   |
| PJM Queue #:   | PJM Study Status: |
| Expected Commercial Operation Date:  |                   |
| Bidder confirms that it has substantial Project site control   | (Y/N)             |
| Is the proposal for 100% of the asset? (Y/N) If no, what percentage?   | _____ %           |

#### *Solar Project Information*

|   |                                   |
|---|-----------------------------------|
| Percentage of Federal Investment Tax Credit that the Project will qualify   | _____ %                           |
| Module Manufacturer / Model:  | Annual Degradation (%):           |
| Configuration (Fixed Tilt / Single Axis):   |                                   |
| Inverter Manufacturer / Model:  |                                   |
| Solar Project Nameplate (MWac):<br>Solar Project Nameplate (MWdc):<br>Battery Energy Storage System (MWac) (optional):  | Expected Annual Availability (%): |
| <p><i>If Bidder has not finalized Module Manufacturer, they must identify the module options and provide the applicable production data (Expected Annual Energy, Capacity Factor) for each module mfg. Bidder shall attach module warranty information with its proposal.</i></p> |                                   |

**Wind Project Information**

|  |                                   |
|--|-----------------------------------|
| Percentage of Federal Production Tax Credit that Project will qualify for:   | %                                 |
| Module Manufacturer / Model:   | Annual Degradation (%):           |
| Turbine Specific Site Suitability Report completed & included in proposal?   | (Y/N):                            |
| Bidder confirms that it has substantial Project site control   | (Y/N):                            |
| Independent wind report / analysis completed and included in proposal?   | (Y/N):                            |
| Source of wind energy forecast:  |                                   |
| Wind Project Nameplate (MWac):<br>Wind Project Nameplate (MWdc):<br>Battery Energy Storage System (MWac) (optional): | Expected Annual Availability (%): |

**BESS Option Information (if Applicable)**

|   |                        |
|---|------------------------|
| Use Case:                                   | Integrator:            |
| Battery Manufacturer:                       | Type of Battery:       |
| Battery Model Number:                       | Cycles per Day:        |
| Nameplate (MWac):                           | Ramp Rate:             |
| Nameplate (MWdc):                           | Charge Time:           |
| Duration (hours):                           | Maximum Charge Rate:   |
| Energy (MWh):                               | Round Trip Efficiency: |
| Aux Load:                                   | Aux Power Source:      |
| Overbuild (MW):                             | Overbuild Years:       |
| PCS Unit Power (kW):                        | PCS Minimum Voltage:   |
| Qty PCS:                                    | PCS Maximum Voltage:   |
| Inverter Manufacturer / Model:              |                        |
| Fire Suppression System (wet / pre-action): |                        |
| EMS Manufacturer / Model:                   |                        |

**Standalone Storage Project Information**

|   |                  |               |               |                    |
|---|------------------|---------------|---------------|--------------------|
| Storage Resource Description:                                 |                  |               |               |                    |
| Duration (Hours):   |                  |               |               |                    |
| Economic Life Assumption (Years):                             |                  |               |               |                    |
| Round Trip Efficiency:  |                  |               |               |                    |
| Charge and Discharge Limits:                                  |                  |               |               |                    |
| Limits on count of cycles per day or year:                    |                  |               |               |                    |
| Project Capacity Values, MW                                   | Nameplate Rating | Winter Rating | Summer Rating | PJM Capacity Value |
|   |                  |               |               |                    |
| <b>If storage resource is battery, please complete below:</b> |                  |               |               |                    |

|   |                        |
|---|------------------------|
| Use Case:                                   | Integrator:            |
| Battery Manufacturer:                       | Type of Battery:       |
| Battery Model Number:                       | Cycles per Day:        |
| Nameplate (MWac):                           | Ramp Rate:             |
| Nameplate (MWdc):                           | Charge Time:           |
| Duration (hours):                           | Maximum Charge Rate:   |
| Energy (MWh):                               | Round Trip Efficiency: |
| Aux Load:                                   | Aux Power Source:      |
| Overbuild (MW):                             | Overbuild Years:       |
| PCS Unit Power (kW):                        | PCS Minimum Voltage:   |
| Qty PCS:                                    | PCS Maximum Voltage:   |
| Inverter Manufacturer / Model:              |                        |
| Fire Suppression System (wet / pre-action): |                        |
| EMS Manufacturer / Model:                   |                        |

***Thermal Project Information***

|   |                  |      |               |      |               |      |      |                    |      |
|---|------------------|------|---------------|------|---------------|------|------|--------------------|------|
| Fuel Type (Primary / Secondary):  |                  |      |               |      |               |      |      |                    |      |
| Project Capacity Values, MW   | Nameplate Rating |      | Winter Rating |      | Summer Rating |      |      | PJM Capacity Value |      |
|   |                  |      |               |      |               |      |      |                    |      |
| Does the facility have black start capability?                              |                  |      |               |      |               |      |      | (Y/ N)             |      |
| If possible, estimated costs to make facility black start capable:          |                  |      |               |      |               |      |      | \$                 |      |
| Estimated remaining useful life (years):                                    |                  |      |               |      |               |      |      |                    |      |
|   | 2019             | 2020 | 2021          | 2022 | 2023          | 2024 | 2025 | 2026               | 2027 |
| Awarded UCAP  |                  |      |               |      |               |      |      |                    |      |
| Expected UCAP   |                  |      |               |      |               |      |      |                    |      |
| Facility Output   |                  |      |               |      |               |      |      |                    |      |
| Expected Facility Output  |                  |      |               |      |               |      |      |                    |      |
| Total Annual Revenue  |                  |      |               |      |               |      |      |                    |      |
| Heat Rate – Summer (Btu /kwh at all loading points allowed by the Proposal) |                  |      |               |      |               |      |      |                    |      |
| Heat Rate – Winter (Btu /kwh at all loading points allowed by the Proposal) |                  |      |               |      |               |      |      |                    |      |

| Summer Capacity – Max (MW)  |              |             |                |             |
|---|--------------|-------------|----------------|-------------|
| Summer Capacity – Min (MW) or at all loading points allowed by the Proposal |              |             |                |             |
| Winter Capacity – Max (MW)  |              |             |                |             |
| Winter Capacity – Min (MW) or at all load points allowed by the Proposal    |              |             |                |             |
| Output (MW) in 10 minutes from Start  |              |             |                |             |
| Ramp Rate (MW / min) – Normal   |              |             |                |             |
| Ramp Rate (MW / min) – Maximum  |              |             |                |             |
| Start-up time (hot) to minimum capability                                   |              |             |                |             |
| Start-up time (hot) to maximum capability                                   |              |             |                |             |
| Start-up time (warm) to minimum capability                                  |              |             |                |             |
| Start-up time (warm) to maximum capability                                  |              |             |                |             |
| Start-up time (cold) to minimum capability                                  |              |             |                |             |
| Start-up time (cold) to maximum capability                                  |              |             |                |             |
| Auxiliary Load (at all loading points allowed by the Proposal)              |              |             |                |             |
| Minimum run time  |              |             |                |             |
| Minimum down time   |              |             |                |             |
| Forced Outage Rate  |              |             |                |             |
| Scheduled Outage Rate   |              |             |                |             |
| Annual Availability (%)   |              |             |                |             |
| Production Constraints:   |              |             |                |             |
|   |              |             |                |             |
| Ancillary Services (describe):  |              |             |                |             |
|   |              |             |                |             |
| Emissions   | Primary Fuel |             | Secondary Fuel |             |
|   | Lb / MWh     | Tons / Year | Lb / MWh       | Tons / Year |
| Sulfur Dioxide  |              |             |                |             |
| Nitrogen Oxide  |              |             |                |             |
| Carbon Monoxide   |              |             |                |             |
| Carbon Dioxide  |              |             |                |             |

|  |  |  |  |  |
|--|--|--|--|--|
| Mercury  |  |  |  |  |
| Particulates (PM / PM 10)  |  |  |  |  |
| Volatile Organic Compounds   |  |  |  |  |
| <p><i>Please note assumption used in completing table above (example – MWh):</i></p> <p>Assumptions:</p> |  |  |  |  |

***Emerging Technology Project Information***

|  |
|--|
| Resource Description:  |
| Economic life assumption:  |
| Ongoing capital and operating costs:   |
| Development and financing plans (Assumptions about financing or funding support including any state or federal tax incentives for the technology): |
| Development timelines and key development uncertainties:   |
| Proposed operating structure for the project:  |
| Key technology risk factors and mitigation plan:   |
| Bidder experience and experience of project development partners:  |

**PSA Proposal Bid Pricing**

| Base Proposal  |                        |                        |                 |               |
|--|------------------------|------------------------|-----------------|---------------|
| Expected Transfer by   | Equipment Manufacturer | Expected Annual Energy | Capacity Factor | Bid Price, \$ |
| December 15, 2024  |                        |                        |                 | \$            |
| December 15, 2025  |                        |                        |                 | \$            |
| Does Bid Price include the use of union labor and a Project Labor Agreement as required by Sections 3.6.7 & 8.1.11?  |                        |                        |                 | (Y/N):        |
| Does Bid Price take into consideration the AEP Requirements for Connection of Facilities (Appendix G)  |                        |                        |                 | (Y/N):        |
| <i>If Bidder has not finalized Module Manufacturer, they must identify the module options and provide the applicable production data (Expected Annual Energy, Capacity Factor) for each module mfg. Bidder shall attach module warranty information with its proposal.</i> |                        |                        |                 |               |
| Base Proposal with BESS Option   |                        |                        |                 |               |
| Expected COD by  | Equipment Manufacturer | Expected Annual        | Capacity Factor | Bid Price, \$ |
| December 15, 2024  |                        |                        |                 | \$            |
| December 15, 2025  |                        |                        |                 | \$            |

**PPA Proposal Bid Pricing**

| Wind/Solar Base Proposal       |          |                        |                 |                      |                       |                                 |                                      |
|--------------------------------|----------|------------------------|-----------------|----------------------|-----------------------|---------------------------------|--------------------------------------|
| Expected Commence Date         | PPA Term | Expected Annual Energy | Capacity Factor | Bundled Price \$/MWh |                       |                                 |                                      |
| December 15, 2024              |          |                        |                 |                      |                       |                                 |                                      |
| December 15, 2025              |          |                        |                 |                      |                       |                                 |                                      |
| BESS Option Pricing            |          |                        |                 |                      |                       |                                 |                                      |
| Expected COD by                | PPA Term | Expected Annual        | Capacity Factor | Bid Price, \$/MWh    |                       |                                 |                                      |
| December 15, 2024              |          |                        |                 | \$                   |                       |                                 |                                      |
| December 15, 2025              |          |                        |                 | \$                   |                       |                                 |                                      |
| Supplemental Capacity Proposal |          |                        |                 |                      |                       |                                 |                                      |
| Expected Commence Date         | PPA Term | Expected Annual Energy | Capacity Factor | Energy Price \$/MWh  | Capacity Price \$/MWh | Ancillary Services Price \$/MWh | Environmental Attribute Price \$/MWh |

|  |  |  |  |  |  |  |        |
|--|--|--|--|--|--|--|--------|
| December 15, 2024  |  |  |  |  |  |  |        |
| December 15, 2025  |  |  |  |  |  |  |        |
| Specify necessary fuel adders, including current fuel arrangements and pricing mechanisms:   |  |  |  |  |  |  |        |
| Does Bid Price include the use of union labor and a Project Labor Agreement as required by Sections 3.8.11?  |  |  |  |  |  |  | (Y/N): |
| <i>Optional size(s) provided <u>cannot</u> be contingent on Bidder selling the remaining portion of the Project to another party via a sale of a portion of the project company or a power purchase agreement.</i> |  |  |  |  |  |  |        |

***Interconnection (PJM)***

|  |                                  |
|--|----------------------------------|
| PJM Queue #:   | Substation Name / Voltage:       |
| Feasibility Study Complete (Y/N):  | Feasibility Study Report Date:   |
| System Impact Study Complete (Y/N):  | System Impact Study Report Date: |
| Point of Interconnection with :  |                                  |
| Types of transmission service (NRIS, ERIS)   |                                  |
| PJM Interconnection Status (describe):   |                                  |
| <i>Please attach a copy of all interconnection studies and/or the expected completion date(s).</i> |                                  |

***Interconnection (MISO)***

|  |                            |
|--|----------------------------|
| MISO Project #:  | Substation Name / Voltage: |
| Phase 2 Complete (Y/N):  | Phase 2 Report Date:       |
| Phase 3 Complete (Y/N):  | Phase 3 Report Date:       |
| Point of Interconnection with :  |                            |
| Types of transmission service (NRIS, ERIS)   |                            |
| Firm Deliverability into PJM?  | (Y/N)                      |
| If no, cost estimated with securing such deliverability?   | \$                         |
| MISO Interconnection Status, including status of any BESS (describe):                              |                            |
| <i>Please attach a copy of all interconnection studies and/or the expected completion date(s).</i> |                            |

***Site Information***

|                         |
|-------------------------|
| Site Legal Description: |
|-------------------------|

|  |                          |           |
|--|--------------------------|-----------|
| Address:   |                          |           |
| City:  | State:                   | Zip Code: |
| County   | Longitude:               | Latitude: |
| Site Control (lease, own, site purchase pending, etc.):  |                          |           |
| Site Acres:  |                          |           |
| Is there potential for expansion (Y / N):  | If Yes; acres available: |           |
| Please attach a copy of all leases, easements or other ownership documentation.  |                          |           |
| Has the site been assessed for any environmental contamination (Y / N):  |                          |           |
| Describe any known environmental issues. If necessary, please describe on a separate attachments:  |                          |           |
| Please attach a diagram identifying anticipated placement of major equipment and other project facilities, including transmission layouts and Point of Delivery. |                          |           |

***Permits***

|  |
|--|
| <p>Have you contacted all required permitting agencies regarding this project and identified all necessary permits?<br/>         City (Y / N):<br/>         County (Y / N):<br/>         State (Y / N):<br/>         Federal (Y / N):<br/>             USF&amp;W (Y / N):<br/>             Other (Y / N)</p> <p>On an additional sheet, list and describe all city, county, state and federal permits required for this project. Include: status, duration, planned steps, critical milestones and timeline.</p> |
|--|

***Preliminary Site Questions<sup>1</sup> (Y/N)***

|  |  |
|--|--|
| Has the site been assessed for any environmental contamination? Describe any known environmental issues. If necessary, please describe on a separate attachments |  |
| Are there any Tribal Lands or Tribal mineral ownership rights within Project boundary or vicinity?   |  |
| Are there any Federally or State owned or controlled lands within Project boundary or vicinity?  |  |
| Has TNC or any other non-governmental organizations been engaged?  |  |

Are there CRP, WRP or other conservation easements within the Project boundary or vicinity?

Attachments Required

- Site Layout: Attach a diagram identifying anticipated placement of major equipment and other project facilities, including transmission layouts and Point of Delivery.
- Leases: Attach (electronic version only) a copy of all leases, easements or other ownership documentation.
- Permit Matrix: Attach a comprehensive permit matrix and status of all required permits, including, but not limited to Federal (USF&W, FAA), State, County, City, etc.
- Environmental Report Summary: The initial Proposals shall include a summary of all environmental and other reports associated with the site. (See Note 1 for reports to summarize)

*Note 1: As applicable, the following reports will be requested: Tier I / II Site Characterization Report, Environmental Work / Survey Plan, Bat Acoustic Survey Report, Avian Use Survey Report, Raptor Nest Survey Report, Prey-base Survey Report, Wetland, Waters and Playa Survey / Assessment Report, Whooping Crane Habitat Assessment Report, Lesser Prairie Chicken Survey / Assessment Report, Phase I Environmental Site Assessment Report, Historical and Cultural Resource Survey / Assessment Report, All Other Species and Environmental Resource Survey and Study Reports, Record and Notes of all Federal or State Resource Agency Correspondence and Meetings, Turbine and Environmental Resource Shapefiles (.kmz format), and Bird and Bat Conservation Strategy and Eagle Conservation Plan (if available).*

***Indiana and Michigan “Goods & Services”***

Describe how the Bidder plans to use local goods or services sourced whole or in part from one or more Indiana or Michigan businesses, as applicable.



## Appendix B

### Bidder's Credit-Related Information

|  |
|--|
| Full Legal Name of the Bidder:   |
| Type of Organization (Corporation, Partnership, etc.):   |
| Bidder's % Ownership in Proposed Project:  |
| Full Legal Name(s) of Parent Corporation:<br>1.<br>2.<br>3.  |
| Entity Providing Credit Support on Behalf of Bidder (if applicable):<br>Name:<br>Address:<br>City:<br>Zip Code:  |
| Type of Relationship:  |
| Current Senior Unsecured Debt Rating:<br>1. S&P:<br>2. Moodys:   |
| Bank References & Name of Institution:   |
| Bank Contact:<br>Name:<br>Title:<br>Address:<br>City:<br>Zip Code:<br>Phone Number:  |
| Legal Proceedings: As a separate attachment, please list all lawsuits, regulatory proceedings, or arbitration in which the Bidder or its affiliates or predecessors have been or are engaged that could affect the Bidder's performance of its bid. Identify the parties involved in such lawsuits, proceedings, or arbitration, and the final resolution or present status of such matters. |
| Financial Statements: Please provide copies of the Annual Reports for the three most recent fiscal years and quarterly reports for the most recent quarter ended, if available. If available electronically, please provide link:  |

## Appendix C

### Bidder Profile

Please list Bidder's Affiliate companies:

- 1.
- 2.
- 3.
- 4.

*Please attach a summary of Bidder's background and experience in Solar Energy projects.*

#### References

1. Company
  - a. Contact Name:
  - b. Contact Number:
  - c. Project:
2. Company
  - a. Contact Name:
  - b. Contact Number:
  - c. Project:
3. Company
  - a. Contact Name:
  - b. Contact Number:
  - c. Project:
4. Company
  - a. Contact Name:
  - b. Contact Number:
  - c. Project:

## **Appendix D**

### **Form Purchase and Sale Agreement**

*See Section 6.4 for instructions to obtain the applicable Form Purchase and Sale Agreement.*

## **Appendix E**

### **Form Power Purchase Agreement (PPA)**

*See Section 6.4 for instructions to obtain the Form Power Purchase Agreement*

## **Appendix F**

### **AEP Generation Facility Standard**

*See Section 6.4 for instructions to obtain the applicable AEP Generation Facility Standard.*

## Appendix G

### AEP Requirements for Connection of Facilities

Please follow the link below to access the AEP Requirements for Connection of Facilities (“Requirements for Connection of New Facilities or Changes to Existing Facilities Connected to the AEP Transmission System”).

[https://aep.com/assets/docs/requiredpostings/TransmissionStudies/Requirements/AEP\\_Interc  
onnection\\_Requirements\\_Rev3\\_CONSOLIDATION.pdf](https://aep.com/assets/docs/requiredpostings/TransmissionStudies/Requirements/AEP_Interc connection_Requirements_Rev3_CONSOLIDATION.pdf)

## Appendix H

### Wind Resource Information

#### Required Information

- Attach the independent wind energy report
  - Wind report shall also include P50, P75, P90, P95 and P99 production estimates with 1, 5, 10, 20 and 30 year timeframes
  - Independent consultant information (resume, contact information) if not included in the wind energy report.
- Describe on-site meteorological campaign including:
  - Number of met towers
  - Height of met towers
  - Remote sensing (lidar and/or sodar)
  - Number of years of data for each tower / remote sensing device.
- Identify any wind direction sector management or other operation restrictions.
- Experience of developer in IN, MI, or IL. Identify the number of projects, years each project has been operating, turbine models and capacity rating.
- Source and basis of the wind speed data used in the development of energy projections for the project. Explain all assumptions for wake losses, line losses, etc. and the location where the data was measured.
- Wind turbine power curve adjusted for the site's specific air density.
- Provide a description of the system intended to provide real-time telemetry data.
- Attach an 8760 calendar year hourly energy forecast, net of all losses (See Section 6.4 for instructions to obtain the WindEnergyInputSheet\_2022.xls.)
- Bidders shall provide a summary of representative wind data with measurement height referenced and any extrapolations used to estimate the wind speeds at the proposed hub height. (This item shall be provided in the electronic (CD, flash drive, etc.) version of the Proposal only.)

The following information should be available upon request; however, is not required with the submission of the Proposal.

- Project boundary (shape files, kmz files, or pdf on USGS topographic map)
- Land control, broken down by leased land, likely to be leased land, likely NOT to be leased land, and indeterminate status (shape files, kmz are best)
- Setbacks/exclusions (shape files preferred),
- Met tower installation commissioning sheets and all subsequent maintenance documents
- Raw data files for all on-site met towers
- If applicable, sodar or lidar documentation and raw data files
- Proposed turbine locations (shape file, kmz file, Excel file with coordinates, including map datum (e.g., WGS84, NAD83))
- All documents related to turbine availability, electrical system design with losses
- Any other materials the developer has in terms of turbine siting

## Appendix I

### Solar Resource Information

*See Section 6.4 for instructions to obtain any of the documents identified below:*

1. Proposal must provide the source and basis of the solar irradiance data used in the development of energy projections for the Project. Explain all assumptions used in forecasted generation calculations.
2. Bidder must populate the data required in the Company's "SolarDataReviewForm\_IM" spreadsheet.
3. Bidder must attach an 8760 calendar year hourly energy forecast, net of all losses using the Company's form spreadsheet (SolarEnergyInputSheet\_2022.xls).

## **Appendix J**

### **Standalone Storage Resource Information**

*See Section 6.4 for instructions to obtain any of the documents identified below:*

1. Bidder must populate the data required in the Company's "StandaloneStorageDataReviewForm\_IM" spreadsheet.

## Appendix K

### Thermal Resource Information

*See Section 6.4 for instructions to obtain any of the documents identified below:*

1. Bidder must populate the data required in the Company's "ThermalDataReviewForm\_IM" spreadsheet.

## Appendix L

### Emerging Technology Resource Information

*See Section 6.4 for instructions to obtain any of the documents identified below:*

1. Bidder must populate the data required in the Company's "EmergingTechDataReviewForm\_IM" spreadsheet.

## **Appendix M**

### **Projected Land Lease Costs**

*See Section 6.4 for instructions to obtain the Land Lease Costs spreadsheet.*

## **Appendix N**

### **Project Technical Due Diligence Material**

*See Section 6.4 for instructions to obtain the Project Technical Due Diligence Material List.*

This list will include basic technical due diligence material that the Company will require to perform an initial technical due diligence of the Project

## **Appendix O**

### **Technical Data on Existing I&M Solar Facilities**

*See Section 6.4 for instructions to obtain Technical Data on Existing I&M Solar Facilities.*

## Appendix P

### Proposal Content Check Sheet

| Section | Item   | Completed |
|---------|--|-----------|
| 8.2     | Cover Letter with Statement of Firm Pricing                              |           |
| 8.3     | Executive Summary  |           |
| 8.4     | Summary PTC/ITC Documentation  |           |
| 8.5     | Appendix A (Project Summary)   |           |
|         | - Company & Generation Project Information                               |           |
|         | - Bid Pricing  |           |
|         | o Module warranty information  |           |
|         | - Interconnection and Point of Delivery                                  |           |
|         | o Attach copies of all interconnection studies / completion dates        |           |
|         | - Site Information   |           |
|         | o Site map   |           |
|         | o Attach copies of site leases   |           |
|         | o Permit Matrix  |           |
|         | o Describe any known environmental issues.                               |           |
|         | o Decommissioning Studies  |           |
|         | - Indiana or Michigan “Goods and Services” (if applicable)               |           |
|         | - Projects Completed of the same generation type                         |           |
| 8.6     | Equipment Warranty Information   |           |
| 8.7     | Identity of Persons / Ownership  |           |
| 8.8     | Appendix B (Bidder’s Credit Related Information)                         |           |
| 8.9     | Appendix C (Bidder Profile)  |           |
| 8.10    | Appendix D (Exceptions to Form PSA) or                                   |           |
| 8.10    | Appendix E (Exceptions to Form PPA)                                      |           |
| 8.11    | Appendix F (Exceptions to AEP Wind or Solar Generation Standard)         |           |
| 8.12    | Appendix G (Exceptions to AEP Requirements for Connection of Facilities) |           |
| 8.13    | Required Resource Analysis / Study Information                           |           |
|         | - Appendix H (Wind Resource Information), if applicable                  |           |
|         | - Appendix I (Solar Resource Information), if applicable                 |           |

|      |  |  |
|------|--|--|
|      | - Appendix J (Standalone Storage Resource Information), if applicable  |  |
|      | - Appendix K (Thermal Resource Information), if applicable             |  |
|      | - Appendix L (Emerging Technology Resource Information), if applicable |  |
| 8.14 | Appendix M Projected Land Lease Costs                                  |  |
| 8.15 | BESS Information (Optional)  |  |
| 8.16 | Bidder's plan to use small and diverse suppliers as subcontractors     |  |