Affects Members Of the Public?	Mark if Applicable w/ an X

Department of Energy

Privacy Impact Assessment (PIA)

Guidance is provided in the template. See DOE Order 206.1, Department of Energy Privacy Program, Appendix A, Privacy Impact Assessments, for requirements and additional guidance for conducting a PIA: **https://www.directives.doe.gov/directives-documents/200-series/0206.1-BOrder/@@images/file**

Please complete form and return via email to Privacy@hq.doe.gov

No hand-written submissions will be accepted.

This template may not be modified.

MODULE I – PRIVACY NEEDS ASSESSMENT

Date	April 23, 2024
Departmental Element & Site	Office of Fossil Energy and Carbon Management (FECM) at Headquarters
Name of Information System or IT Project	Carbon Management Analysis System (CMAS)
Exhibit Project UID	019-000002793
New PIA ☐ **Update** ☒	Annual PIA Review

	Name, Title	Contact Information Phone, Email
System Owner	Jose Benitez Director, Office of Policy and Analysis, Office of Carbon Management, Office of Fossil Energy and Carbon Management	202-586-9606 jose.benitez@hq.doe.gov

MODULE I – PRIVACY NEEDS ASSESSMENT

Local Privacy Act Officer	Pamela Gentel Government Information Specialist Office of Information Technology, FE-14	301-903-1856 pamela.gentel@hq.doe.gov
Cyber Security Expert reviewing this document (e.g. ISSM, CSSM, ISSO, etc.)	Eileen Division Information System Security Officer, FE-14	301-903-9913 eileen.division@hq.doe.gov
Person Completing this Document	Adebanke Adekunle (contractor) Cybersecurity Analyst, FE-14	301-903-2527 adebanke.adekunle@hq.doe.gov
Purpose of Information System or IT Project	The Carbon Management Analysis System (CMAS) is a system used by FECM's Office of Policy Analysis (FE-261) to collect, standardize, and analyze large publicly available time series datasets from a variety of sources such as EIA's powerplant survey data, EPA's greenhouse gas inventory, EPA's continuous emissions monitoring information, and NOAA's weather data. The data is analyzed applying statistical techniques and tools, such as R, to find relationships and trends in large datasets. CMAS is used to model energy policy and technological impacts to U.S. energy assets and systems (e.g., the power grid, electric power generation assets, natural gas pipelines). The system provides FE-261 the capability to run modeling software such as PLEXOS (a production cost model that presents hourly representations of the power grid) and EIA's National Energy Modeling System (an integrated model of the U.S. energy system). CMAS statistical analysis is used to perform national-level energy markets analysis, examine changes in power generation assets and use due to specific policy assumptions, and inform national level energy policy decisions. Only seven FECM Office of Policy Analysis staff members use and have access to this internal-facing system to compile databases and perform statistical analysis.	
Type of Information Collected or Maintained by the System:	☐ SSN Social Security number ☐ Medical & Health Information e.g. blood test results ☐ Financial Information e.g. credit card number	

MODULE I – PRIVACY NEEDS ASSESSMENT

	☐ Clearance Information e.g. "Q"
	☐ Biometric Information e.g. finger print, retinal scan
	☐ Mother's Maiden Name
	☐ DoB, Place of Birth
	☐ Employment Information
	☐ Criminal History
	☐ Name, Phone, Address
	☒ Other – Macro-economic national energy modeling data, carbon emissions data, powerplant and pipeline information, results of statistical analysis

Has there been any attempt to verify PII does not exist on the system? **DOE Order 206.1,** *Department of Energy Privacy Program,* **defines PII as** *any information collected or maintained by the Department about an individual, including but not limited to, education, financial transactions, medical history and criminal or employment history, and information that can be used to distinguish or trace an individual's identity, such as his/her name, Social Security number, date and place of birth, mother's maiden name, biometric data, and including any other personal information that is linked or linkable to a specific individual.*	**NO**
If "Yes," what method was used to verify the system did not contain PII? (e.g. system scan)	

Threshold Questions

1. Does system contain (collect and/or maintain), or plan to contain any information about individuals?	NO
2. Is the information in identifiable form?	NO
3. Is the information about individual Members of the Public?	NO
4. Is the information about DOE or contractor employees?	NO (If Yes, select with an "X" in the boxes below) ☐ Federal Employees

PRIVACY PROGRAM

MODULE I – PRIVACY NEEDS ASSESSMENT

☐ Contractor Employees

If the answer to **all** four (4) Threshold Questions is "**No**," you may **proceed to the signature page** of the PIA. Submit the completed PNA with signature page to the CPO.

Module II must be completed for all systems if the answer to any of the four (4) threshold questions is "Yes." All questions must be completed. If appropriate, an answer of N/A may be entered.

The goal of the threshold questions is to legitimately and efficiently determine whether additional assessment is necessary. If there is doubt, it is in the System Owner's best interest to complete Module II.

PIAs affecting Members of the Public are posted on the DOE Privacy website. For this reason, PIAs affecting Members of the Public should be written in plain language and at a high level so they are easily understandable and do not disclose sensitive information.

END OF PRIVACY NEEDS ASSESSMENT

SIGNATURE PAGE

	Signature	Date
System Owner	_____ (Jose Benitez) _____ (Signature)	_____
Local Privacy Act Officer	_____ (Pamela Gentel) _____ (Signature)	_____
Ken Hunt **Chief Privacy Officer**	_____ (Print Name) _____ (Signature)	_____