




aesc IAC-qualified Assessments and IAC Implementation Grant Opportunity


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Today's Speakers



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 Director of
 Business Development



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 Director



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 Senior Project Manager


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What We Do




<p>30+ Supported/Administered Utility EE Programs</p>	<p>120+ Energy and Water Audits Performed Annually</p>	<p>2,500+ Engineering Calculation Reviews Annually</p>
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Engineering


- **Integrated Energy Audits**
- Retrocommissioning (RCx) Studies
- **Project Development**
- Technical Reviews
- Measurement & Verification (M&V)


Technology

- Emerging Technology Studies
- Renewable Technologies
- Grid Intelligence / Grid Integration
- Electric Vehicle Infrastructure
- Electrification / Decarbonization
- Virtual Power Plants
- **Wastewater Treatment**


Software

- Energy Project Management Platform (Praxis)
- Meter-Based M&V
- Utility Application Processing Platforms
- Online Audits and Customer Engagement
- Custom Software Development


Programs

- DSM Program Implementation
- Meter-Based Programs
- Wastewater Treatment Optimization
- Energy Resiliency Services
- Strategic Energy Management (SEM) Programs
- Peak Load Management

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Who We Work With



Investor-Owned Utilities & Program Admins



POUs RENs & CCAs



Federal, State & Local Government



Corporations & Non-Profits



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30 Years of Auditing & Assessments



- Our experience makes AESC ideally qualified to help customers assess energy optimization projects and take advantage of IAC Grants and other incentives. Learn more about AESC at www.aesc-inc.com

AESC's energy engineering expertise:



Engineering and Program Technical Assistance



Integrated Demand Side Management Audits



Retrocommissioning



Measurement & Verification

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DOE IAC Implementation Grant Program

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DOE's IAC Implementation Grant Program



- DOE recently opened a \$400M IAC Implementation Grant program, funded by the Bipartisan Infrastructure Law (BIL), to spur small manufacturer project investment
- Grants cover 50% of project costs, up to \$300,000 per site (lifetime)
- To be eligible, projects must first receive an Industrial Assessment Center (IAC) or IAC-equivalent Assessment



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Plant Eligibility Requirements

To qualify, plants must meet the following criteria:

- U.S. manufacturing or wastewater treatment plant
- annual corporate gross sales <\$100 million
- annual energy bills between \$100,000 - \$3.5 million at assessed plant.
- <500 employees at assessed plant



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Multiple Project Types Qualify for the Grant

Eligible Grant Project Types:

- Improve energy efficiency, productivity or material efficiency
- Reduce waste, GHGs, or non-GHG pollution
- Improve cybersecurity

Example funded projects:

- Process Optimization: monitors, sensors
- HVAC/furnace/boiler/thermostat installation
- LED retrofits
- Onsite Power: Solar, micro-turbines
- Power factor upgrades; Ancillary upgrades

Projects must be listed in an IAC Assessment report to be eligible for the Grant



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IAC-equivalent Assessments

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IAC-equivalent Assessments



- DOE has historically funded 37 university-based Industrial Assessment Centers (IACs) to complete 20 small industrial assessments per year while training engineering students.
- To expand market access to the IAC Implementation Grant program, DOE recently qualified 10 engineering firms as “IAC-equivalent” Assessment Providers.
- AESC was qualified as an IAC-equivalent Assessment provider
- IAC-equivalent Assessments are not funded by DOE but unlock an eligible plant’s ability to apply for the IAC Implementation Grants.

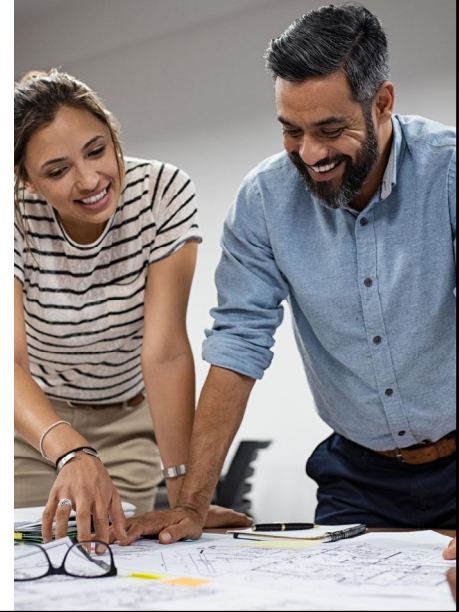


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Assessment Reports

The assessment report identifies:

- Measure recommendations
- Measure descriptions
- Estimated energy and utility cost savings
- Relevant non-energy benefits (e.g., GHG reduction, productivity benefits, etc.)
- Estimated implementation costs
- Available local, state and federal incentives and grants to improve financial feasibility.



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Five Steps of the IAC Assessment Protocol



STEP 1: Pre-Assessment Information Gathering

Client fills out Pre-assessment Form, it includes basic facility, utility, and production information for assessors to begin their audit process.



STEP 2: Ensure that key plant personnel are involved

For the most comprehensive assessment, critical staff in multiple departments will need to be involved, including, the plant and energy managers, and both environmental and maintenance staff.



STEP 3: Pre-Assessment Analysis

The analysis informs the engineers and assessors of the energy system details they will need to be aware of as they tour the facility and meet with staff during their IAC assessment.



STEP 4: Day of the Assessment

These assessments take a full day of on-site tours and interviews with the goal of a thorough data gathering that will serve as the basis for the assessment report.



STEP 5: Post Assessment Activities

Deep analysis of the facility and operations will reveal the most feasible projects, taking into account engineering scope and costs. The results of the assessment will be delivered in an official IAC Assessment Report. This program also requires multiple follow-up touch-points that confirm successful project implementation.

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IAC Assessment & Grant Process



Step	Timeframe
1. Confirm IAC Eligibility: Plant qualifies for IAC Assessment	
2. IAC Assessment: Assesses and documents viable projects, energy/ GHG benefits, and costs	~1 month
3. IAC Implementation Grant Application: Leverages data from IAC Assessment, 50% of project cost up to \$300K/site.	Rolling submittal; Quarterly review by DOE (<u>next review cycle is March 31, 2024</u>)
4. DOE Grant Eligibility Review and Approval	~3 mos. after quarterly deadlines
5. Project Implementation	1-2 years following grant approval (exceptions for complex projects)
6. Submit Cost Documentation; Receive Grant Funding	Grant reimbursement within 30 days of submittal

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Grant Application Overview



Workstream 1: IAC Implementation Grants - 2024 Q1
Ends on Sun, Mar 31, 2024 9:00 PM

Eligible small and medium-sized manufacturers (SMMs) interested in receiving grant funding through the implementation grant program must create a Submittable account to view the application form, download, complete, and upload the following document:

- Assessment report from an Industrial Assessment Center (IAC), Combined Heat & Power Technical Assistance Partnerships (CHP TAPs) Assessment, or qualified third-party assessor. For a list of qualified third-party assessors, please see the bottom of the [page here](#).

I certify that the named applicant is a domestic entity as defined below and is not owned by, controlled by, or subject to the jurisdiction or direction of a government of a Country of Risk and meets the eligibility requirements for this program. I further represent that the information contained in the submission is true and contains no misrepresentations. I understand that any false, fictitious, or fraudulent information, misrepresentations, half-truths, or omissions of any material fact, may subject me to criminal, civil or administrative penalties for fraud, false statements, false claims or otherwise. (18 U.S.C. §§ 1001 and 287, and 31 U.S.C. 3729-3733 and 3801-3812). I further understand and agree that the statements and representations made herein are material to Department of Energy's (DOE) funding decision. *

Yes
 No

Note: To qualify as a domestic entity, the entity must be organized, chartered or incorporated (or otherwise formed) under the laws of a particular state or territory of the United States, have majority domestic ownership and control, and have a physical place of business in the United States.

Next

Grant Application

- Questions on contact, organization and eligibility information
- Upload of IAC or IAC-equivalent assessment
- List measure recommendations you are applying for grant funding
 - Measure Description
 - Cost of Implementation
 - Savings
- Total Grant Funding Requested
- Sources of non-Grant funding (internal capital, loans, incentives, etc)
- Project overview: Please describe the overall technical scope and objectives for the proposed project – including workplan, timelines, & resourcing requirements.*Limit: 500 words
- Need for financial assistance
- Community benefits: How the proposed project will provide benefits to the surrounding community (environmentally and/or economically/create jobs)

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Cost of IAC-qualified Assessments



- A typical IAC-equivalent Assessment would range from \$25K-\$35K depending on plant size, complexity, and location.
- DOE does not fund IAC-equivalent Assessments however your local utility may offer audit funding support, and AESC will identify additional available utility, state and federal incentives (in addition to the 50% IAC Grant) that may further offset project implementation costs.



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Next Steps

- Verify that the site meets IAC Grant eligibility requirements
- Submit an IAC-equivalent Assessment request via this link <https://forms.microsoft.com/r/zcvkdhs8yB> that includes
 - Requester name and contact information
 - Site location
 - Plant type/activity
 - Plant square footage
 - Note if there are specific systems/projects of customer interest
 - Desired timeframe for completing the assessment and applying for the Grant
- Execute an NDA to allow for additional sharing of customer specific information to inform quote.
- AESC will provide a cost quote, timeline, and contract for services for execution.



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