



**General Services Administration**  
**Federal Supply Service**  
**Authorized Catalog and Price List**  
**Contract Period: December 1, 2011 – November 30, 2016**

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**Schedule Title and FSC Group:**  
**03FAC Facilities Maintenance and Management**

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**Taitem Engineering, PC**  
110 South Albany Street  
Ithaca, New York 14850  
[www.taitem.com](http://www.taitem.com)

Jan S. Schwartzberg  
Contract Administrator  
607-277-1118 x109  
[jschwartzberg@taitem.com](mailto:jschwartzberg@taitem.com)



**Schedule**  
**Contract GS21F0026Y**

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For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at [fss.gsa.gov](http://fss.gsa.gov).  
Online access to contract ordering information, terms, and conditions, up-to-date pricing, and the option to create an electronic  
delivery order is available through GSA Advantage!, a menu-driven database system. The URL for GSA Advantage! is:  
<http://www.gsa.gov>

## Taitem Engineering: Who We Are

Taitem Engineering, PC, is a consulting engineering firm based in Ithaca, New York, specializing in mechanical, electrical, and structural design, energy consulting, and energy research. Founded in 1989, the firm has established a reputation for innovation and excellence. "Taitem" stands for "Technology As If The Earth Mattered," reflecting the firm's commitment to the environment.

Our staff of highly qualified engineers, analysts, and technicians ensures that your project will be handled by an expert from start to finish. The Taitem project team brings broad experience that enhances its energy-related work, including in-depth experience in several key technologies, including ventilation and high-efficiency heating and cooling applications.

Taitem's experience in energy-related services includes audits, carbon-footprint studies, and benchmarking. We have also provided quality control for a large statewide energy-conservation/incentive program.



Our energy-related and engineering services have been demonstrated through extensive work in commissioning, retro-commissioning, and Leadership in Energy and Environmental Design (LEED). Our collaborative process includes observations, extensive testing, and training. Our commissioning group has commissioned energy, mechanical, and electrical systems for hundreds of thousands of square feet of buildings. Our project teams have experience both with advanced building energy modeling, such as DOE-2, as well as stand-alone calculations.

Taitem's staff includes five licensed professional engineers, six LEED-accredited professionals, several certified energy managers, commissioning professionals, and building energy analysts, as well as a master plumber and a master electrician.



Varyap Meridian, Istanbul, Turkey

Taitem modeling and commissioning project for 4.2 mm SF complex seeking LEED certification

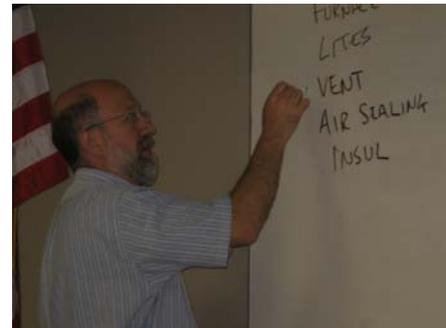
## Awarded SINs: Description of Services

### 871-202, Energy Management Planning and Strategies

Our staff conducts strategic planning, energy assessments, including evaluation of renewables, and other detailed assessments, for example, cogeneration feasibility. We develop and execute energy audits, audit plans, and energy management solutions and we will analyze audit results and requirements to design a detailed energy management project concept. Taitem creates detailed worksopes for and managed implementation of energy-efficiency improvements. We provide expert technical assistance services during all phases of a project, both pre- and post-construction. We also provide complete measurement and verification (M&V) services.

### 871-203, Training on Energy Management

Our experienced staff has trained auditors, building owners, and facilities managers. Training topics include: conducting thorough site visits, analysis of building data, interpreting results of energy models, and identifying building-specific energy conservation measures; understanding USGBC LEED; managing energy efficiency improvement projects with an emphasis on construction-phase steps to ensure high-quality energy saving measures are completed and the building's energy usage is reduced. *Shown at right: Taitem President Ian Shapiro, PE delivers training to Weatherization Assistance Program personnel.*



### 871-204, Metering Services

Taitem Engineering provides metering services, including installation of equipment and deployment of software to monitor and analyze energy use in a building before, during, and after an energy-efficiency construction project. Example services provided include: monitoring of air temperature, natural gas consumption, boiler run times, water supply and return temperature, flue gas temperature, electricity use, relative humidity; installation of metering equipment, data loggers, and software for the collection and analysis of data. Taitem staff includes a master electrician and plumber.

### 871-205, Energy Program Support Services

Taitem Engineering supports the development of energy programs through technical assistance in adopting and implementing standards or seeking compliance with energy and building codes. Our work includes billing analysis and development of utility bill allowances. Our staff performs cost assessments, economic feasibility studies, and cost-benefit analyses for proposed energy conservation measures as potential incentives are developed. Taitem Engineering is the Quality Assurance consultant for a major statewide energy program with responsibility for disbursing over \$125 million in energy-efficiency incentives.

## 871-206, Building Commissioning Services

Taitem's certified staff provides building commissioning services for both new and existing buildings. Our staff includes USGBC LEED AP's, BCA, and AEA Certified Commissioning Professionals and has exceptional expertise in HVAC systems and BAS/DDC. Several Taitem projects have attained LEED certification at Platinum, Silver, or Gold level.

## 871-207, Energy Audit Services

Taitem provides comprehensive energy audit services for all building types; includes developing, executing, and reporting on an audit plan; data collection, data analysis, and written recommendations of suggested upgrades of electrical and mechanical infrastructure, taking into account their impact on energy consumption and pollution; benchmarking using EPA Portfolio Manager; operation and maintenance (O&M) and low-cost/no-cost improvements; industrial process efficiency studies; alternative-fuel vehicle fleet studies; and evaluations of and recommendations for using alternative and renewable energy sources, including solar-thermal, solar photovoltaic, biomass, and wind.



## 871-209, Innovations in Renewable Energy

Taitem staff are experts in the design, deployment, and evaluation of solar photovoltaic systems, solar-thermal service hot water systems, solar-thermal ventilation systems, small wind, and geothermal. Sample project: Taitem piloted design and implementation of a solar-thermal ventilation makeup air preheater in a high-rise building with funding from the New York State Energy Research and Development Authority. Taitem President Ian Shapiro, PE, developed and patented a new ultra-efficient air-conditioning system with net-zero energy potential.

## 871-210, Water Conservation

Taitem's staff evaluates opportunities for water conservation in a variety of building settings and has a record of identifying significant opportunities for reduction of water use. Taitem has also designed rainwater catchment systems and other water-conserving designs for buildings.

## 871-211, Energy Consulting Services

Taitem Engineering performs work in a myriad of energy-related areas, including greenhouse gas (GHG) surveys, carbon footprint studies, agency-wide quality assurance services, energy code compliance, and consulting for agencies seeking a holistic approach to energy conservation.

# Customer Information

<b>Maximum order*</b>	\$1,000,000
<b>Minimum order</b>	\$100
<b>Geographic coverage</b>	domestic
<b>Basic discount</b>	2%
<b>Quantity discounts</b>	none
<b>Prompt payment terms</b>	.5%-15, net 30
<b>Government credit cards accepted</b>	Yes (excludes prompt payment discounts)
<b>Foreign items</b>	none
<b>Time of delivery after receipt of order (ARO)</b>	See terms below **
<b>FOB point:</b>	Destination
<b>Ordering address</b>	Same as contractor
<b>Payment address</b>	Same as contractor
<b>Warranty provision</b>	Standard Commercial Warranty
<b>Terms and conditions of GCCC acceptance</b>	(any thresholds above the micropurchase level)
<b>DUNS number</b>	625024781
<b>CCR registration notification</b>	Taitem Engineering has current registration in the Central Contractor Registry (CCR).

\*If the "best value" selection places your order over the Maximum Order, identified in this catalog/price list, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the aforementioned contractor for a better price. The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the Schedule contract in accordance with FAR 8.404.

\*\*Normal: Varies per service performed

Emergency: Shipment within n/a days ARO for in stock at time of order

Expedited: Items available for expedited delivery are noted in this price list.

Overnight and 2-day Delivery:

Urgent Requirement: Clause I-FSS-140-B of the contract applies. Agencies can contact contractor's representative to possibly affect a faster delivery.

## Contract Price List

Title	GSA Hourly Rate Through 11/31/2012
Principal / President	\$165.88
Principal / Vice President	\$147.12
Senior Engineer	\$122.44
Project Engineer	\$78.01
Engineering Associate	\$75.04
Senior Energy Analyst	\$81.95
Energy Analyst	\$69.11
Energy Technician	\$58.83

## Labor Category Descriptions

### Principal / President

Manages the day-to-day operations of the company and serves as Principal-in-Charge for all projects. Provides expert opinions and interpretation on building codes and other regulatory requirements related to work undertaken by Taitem. Leads advanced energy analysis for Taitem. Also performs duties as Senior Engineer, including overall supervision of program and project assignments.

*Minimum Educational Requirements:* BS in engineering-related field

*Minimum Experience Requirements:* Minimum 5 years engineering experience and demonstrated ability to work independently, mastery of specialty area, ability to review and supervise the work of others.

Licensing Requirement: Must possess a valid professional engineering (PE) license.

### Principal / Vice President

Manages the day-to-day operations of the company and serves as Principal-in-Charge for all projects. Provides expert opinions and interpretation on building codes and other regulatory requirements related to work undertaken by Taitem. Leads advanced energy analysis for Taitem. Also performs duties as Senior Engineer, including overall supervision of program and project assignments.

*Minimum Educational Requirements:* BS in engineering-related field

*Minimum Experience Requirements:* Minimum 5 years engineering experience and demonstrated ability to work independently, mastery of specialty area, ability to review and supervise the work of others.

Licensing Requirement: Must possess a valid professional engineering (PE) license

### Senior Engineer

A Senior Engineer is responsible for the overall supervision of assigned projects. The Senior Engineer must ensure his/her assigned projects conform to rigid engineering standards as well as to commitments made to our client. Additionally, the Senior Engineer must ensure that his/her assigned projects are completed within the agreed-upon timeline and within the agreed-upon budget.

*Minimum Educational Requirements:* BS in engineering-related field or equivalent

*Minimum Experience Requirements:* Minimum 5 years engineering experience and demonstrated ability to work independently, mastery of specialty area, ability to review and supervise the work of others

## Project Engineer

A Project Engineer is responsible for the entire day-to-day administration and operations of an assigned project. The project engineer is also responsible for the direct supervision of all project staff assigned to a project. He/she must ensure that the assigned project meets all project goals, including project timelines and budgetary requirements. Additionally, the Project Engineer establishes and maintains direct contact with clients' representatives.

*Minimum Educational Requirements:* BS in engineering-related field or equivalent

*Minimum Experience Requirements:* Minimum 3 – 5 years engineering experience, demonstrated ability to work independently, mastery of specialty area, ability to review and supervise the work of others

## Engineering Associate

The Engineering Associate position is one for an individual currently pursuing a bachelor's degree in engineering and who works under direct supervision of a company Engineer or Project Engineer.

*Minimum Educational Requirements:* Associates Degree in Engineering Technology or related field

*Minimum Experience Requirements:* 3 – 12 months as a trainee or intern

## Senior Energy Analyst

The Senior Energy Analyst is responsible for ensuring that Taitem Engineering's energy-related programs/projects conform to specific client-project requirements. He/she is responsible for analysis for energy asset upgrade projects, energy studies, building systems analysis/computer simulations, alternative energy studies and project planning and cost estimating.

*Minimum Educational Requirements:* BS in technical field or equivalent

*Minimum Experience Requirements:* 5 years experience in energy management/auditing or equivalent



## Energy Analyst

The Energy Analyst is responsible for ensuring that his/her assigned energy-related projects conform to specific client-project requirements. He/she is responsible for project analysis of energy asset upgrade projects, energy studies, building systems analysis / computer simulations, alternative energy studies and project planning and cost estimating. Works under supervision of the Senior Energy Analyst.

*Minimum Educational Requirements:* BS in technical field, or equivalent

*Minimum Experience Requirements:* 2 years energy audit or related experience

## Energy Technician

The Energy Technician is a training position under direct supervision of an Energy Analyst or Senior Energy Analyst.

*Minimum Educational Requirements:* Associate's degree in a technical field, or equivalent

*Minimum Experience Requirements:* This is an entry-level position with very limited experience requirements