

## Technical Guidelines for an Industrial Incentive Application

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### Introduction

An application may be made to Power Smart by any industrial customer for a financial incentive to implement energy conservation measures. If the application makes reference to a prior energy study or similar document that calculated the predicted savings and costs with adequate accuracy, the requirement for additional documentation is brief. Otherwise, the essential components of an energy study must be provided with the incentive application.

### Guidelines

#### 1. Summary

- 1.1. A brief description of the proposed Energy Conservation Measure
- 1.2. Annual electrical energy savings (kWh/y)
- 1.3. Demand reduction (kW)
- 1.4. Energy Conservation Measure costs
- 1.5. Other benefits and savings

#### 2. Background

- 2.1. The site name and location
- 2.2. A brief history or discussion relevant to the proposed projects
- 2.3. The applicant's contact information

#### 3. Per Energy Conservation Measure

- 3.1. A brief description
- 3.2. Project cost
- 3.3. Incremental cost
- 3.4. Further information, depending on the following documentation scenarios:
  - 3.4.1. If the savings and cost estimates in the application are supported by an Energy Study, Energy Audit, End-use Assessment or Customer Site Investigation with valid results, the required documentation must contain
    - 3.4.1.1. Updated costs;
    - 3.4.1.2. The title, date and author of the supporting Energy Study, Energy Audit, End-use Assessment or Customer Site Investigation and
    - 3.4.1.3. A copy of the supporting document.

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3.4.2. In the absence of an Energy Study, Energy Audit, End-use Assessment or Customer Site Investigation with valid results, if estimated savings are less than 300,000 kWh/y, the required documentation must contain

- 3.4.2.1. Energy consumption (kWh/y) and demand (kW) before and after implementation and
- 3.4.2.2. Analysis methodology, calculations and assumptions.

3.4.3. In the absence of an Energy Study, Energy Audit, End-use Assessment or Customer Site Investigation with valid results, if estimated savings are greater than 300,000 kWh/y, the required documentation must contain

- 3.4.3.1. Process and instrumentation diagrams, if applicable;
- 3.4.3.2. General arrangement diagrams;
- 3.4.3.3. Operating hours, loading and relevant process data;
- 3.4.3.4. Comments on production level patterns, seasonality and load characteristics;
- 3.4.3.5. Measured or estimated equipment and system efficiencies;
- 3.4.3.6. Control system and operating strategy;
- 3.4.3.7. Energy consumption (kWh/y) and demand (kW) before and after implementation. Accuracy target:  $\pm 10\%$ ;
- 3.4.3.8. Methodology, calculations and assumptions and
- 3.4.3.9. Alternative energy conservation measures considered.

### 4. Details to be included in costs

- 4.1. Engineering;
- 4.2. Equipment including shipping and taxes ( $\pm 10\%$ );
- 4.3. Installation ( $\pm 30\%$ );
- 4.4. Commissioning, training and demolition costs ( $\pm 30\%$ ) and
- 4.5. A quotation if available.

### 5. Additional data requirements for New Plant Design Incentive Application

For an incentive application involving a New Plant Design (the design of part or all of a new plant or a plant that is undergoing expansion or improvement that will lead to a production increase) the form "Supplementary Data for New Plant Design Projects" must be completed by the applicant and submitted with the incentive application.