Feasibility Study

Incentive Application

Feasibility Studies are energy audits that determine costs and energy savings of a project. We will help you with templates and guidelines for completing the study, loan you test equipment at no-charge, and cover the full cost of the feasibility study to a maximum of $15,000.

**Eligibility**

Qualifying facilities typically have a peak electrical demand exceeding 250 kW (kVA). Only Feasibility Study costs related to equipment that will save electrical energy are eligible for Incentive.

To qualify for a Feasibility Study Incentive, you must complete the Custom Project Application and this Feasibility

Study Incentive Application, including a Feasibility Study Proposal section that needs to be completed by your chosen consultant. Submit the completed Applications to:

Email: Mail: Fax:

cicustom@efficiencyns.ca Efficiency Nova Scotia 902 470 3599

(Please note that we cannot accept high 230 Brownlow Ave., Suite 300 Attention: Feasibility Study

risk attachments such as ZIP, EXE or files Dartmouth, NS B3B 0G5

that exceed 10MB.) Attention: Feasibility Study

We will notify you of the expected time required for review, typically within five business days after completed

Applications are received. Review times will vary by project.

Please note that to receive your Incentive, the Feasibility Study must meet the requirements described in the

Feasibility Study Guide. We may accept existing Feasibility Studies, although no Incentive will be paid toward the cost.

In this case please provide the Custom Project Application and a copy of your study.

Approved payments will be made in two installments described in the Terms and Conditions section. Funding provided for a Feasibility Study will be deducted from the Total Incentive available for the project.

**Consultant Information**

|  |  |
| --- | --- |
| Company Name: | Click here to enter text. |
| Company Address: | Click here to enter text. |
| Contact Name: | Click here to enter text. |
| Contact Title: | Click here to enter text. |
| Contact Phone: | Click here to enter text. |
| Contact Email: | Click here to enter text.  *I would like to receive email communications (tips, promotions, etc.) from Efficiency Nova Scotia. (You may withdraw your consent at any time.)* |

**Feasibility Study Information**

|  |  |
| --- | --- |
| Company Name: | Click here to enter text. |
| Facility Name: | Click here to enter text. |
| Project Title: | Click here to enter text. |
| Feasibility Study Start Date: | Click here to enter text. |
| Feasibility Study Completion Date: | Click here to enter text. |
| Total of All Feasibility Study Costs: | $ \_\_\_\_\_ |
| Minus Financial Assistance From All Other Sources Toward Feasibility Study: | - $ \_\_\_\_\_ |
| Equals Total Costs Eligible For Incentive: | =$ \_\_\_\_\_ |

**Terms and Conditions**

I hereby consent and acknowledge that:

1. Incentive eligibility is based on eligibility of the facility, the potential electrical energy and demand savings, technical viability of the project, cost-effectiveness, project completion date and other criteria in Efficiency Nova Scotia’s sole discretion.
2. The Incentive provided is one hundred per cent (100%) of Total Costs Eligible for Incentive to a maximum of $15,000. Funding provided for a Feasibility Study will be deducted from the Total Incentive available.
3. Approved payments will be made in two instalments as follows: The first instalment will be paid within 45 days

after Efficiency Nova Scotia approves the Feasibility Study Report submitted pursuant to this Application. The

first instalment will be fifty per cent (50%) of the Incentive Amount. If, within a time period defined by

Efficiency Nova Scotia in its sole discretion, the Company and Efficiency Nova Scotia execute a Project

Development Agreement (PDA) that incorporates the Feasibility Study Report, the final instalment will be paid within 45 days after execution by both parties of the PDA.

1. When requesting payment of the Incentive amount, I will provide a copy of the Feasibility Study Report to

Efficiency Nova Scotia, with copies of invoices to support all claimed costs. Efficiency Nova Scotia may request additional information as needed to verify savings calculations and eligibility of the claimed costs.

1. Efficiency Nova Scotia may, in its sole discretion, accept other projects (e.g., facilities with a peak electrical demand below 250 (kVA), or studies not prepared or signed by a Professional Engineer).
2. Eligible Feasibility Study costs are disbursements (excluding staff labour costs) directly related to the Feasibility Study. Harmonized Sales Tax (“HST”) is eligible unless a customer is exempt from payment of HST, or a customer

is eligible for a refund of the HST paid.

1. I submit this application as a duly authorized representative of the Company and that I have the authority to bind the Company. The information given in this application is accurate in all respects. I agree to all terms and conditions set out in this application.
2. Efficiency Nova Scotia has no responsibility for false or misleading information in the Feasibility Study. Professional Engineer was selected by the Company to conduct the Feasibility Study.
3. If this application is approved, the Feasibility Study will be completed by the Feasibility Study Completion Date.
4. It is understood that the agreement resulting from the written acceptance of this Application by

Efficiency Nova Scotia will be subject to and governed by the laws of Nova Scotia and shall not be assigned

by the Customer, in whole or in part, without the written consent of Efficiency Nova Scotia.

1. Efficiency Nova Scotia is a franchise operated by EfficiencyOne, official Licensee of the Province of Nova Scotia.

By completing and submitting this form, I agree to release my company information to the current and successive holders of the Efficiency Nova Scotia franchise.

1. By completing and submitting this form, I hereby consent to the purposes for which Efficiency Nova Scotia is collecting, using and disclosing company information as set out in Efficiency Nova Scotia’s Privacy Policy. More information on Efficiency Nova Scotia's Privacy Policy can be found online, efficiencyns.ca/privacy-policy or by email, privacy@efficiencyns.ca.

By signing below, I agree to the above terms and conditions and confirm the information provided is complete and accurate.

**X**Click here to enter text. **DD / MM / YY**

Signature

**X**Click here to enter text. **X**Click here to enter text.

Name (Please Print) Title (Please Print)

Feasibility Study

Proposal

­­­­­­­­­­The Feasibility Study Proposal is to be completed by your chosen consultant.

The content in this example is for illustrative purposes only. Replace the information with your project facts. The Feasibility Study Guide, provided by Efficiency Nova Scotia, describes the information that should be supplied in each section of the Proposal and the Report.

Application/Process Description

ABC Manufacturing operates a hardwood furniture manufacturing facility in Anytown, Nova Scotia. The plant has a wood dust collection system consisting of 10 exhaust fans and two dust collectors. The fans have a total air flow capacity in excess of 100,000 l/s, with a motor load of approximately 500 kW.

Wood dust is collected from the various manufacturing processes within the plant and conveyed to the dust collectors where it is transferred to the cyclone and eventually into silo storage for disposal.

A system schematic is shown in Figure 1.

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| --- |
| Figure 1 |

The system operates for roughly 6,000 hrs per year (2 shift basis, seven days per week). The system requires a constant air flow rate and the fans operate under a steady load. They are started and stopped on a fixed schedule by programmable-logic controllers.

Electricity Saving Opportunity

ABC plans to upgrade this system to meet increased production levels. They will add capacity when replacing the oldest of the exhaust fans, which has been in service for the past 20 years. This study will evaluate two replacement fan models, one of which is more efficient and also more expensive. As a preliminary estimate, the more efficient fan would save about 50,000 kWh of electrical energy per year in comparison with the lower cost model. The electrical demand savings would be approximately 8 kVA.

The more efficient fan would have an installed cost of roughly 50% more than the alternative. Based on past installations by ABC, the less-expensive fan will cost approximately $30,000 installed, so the more efficient option can be expected to cost approximately $45,000.

Other Project Benefits

ABC expects a moderate savings in maintenance costs. The value of this benefit, if any, will be estimated during the detailed analysis.

Scope of Work

The main study activities will include:

* Site visit to ABC Manufacturing, to verify suitability of the two options under consideration;
* Analysis of options for energy savings;
* Preparation and delivery of the Feasibility Study Report.

Schedule

The Feasibility Study report will be completed within four weeks after approval from ENS to proceed. ABC Manufacturing will install the new fan during a planned maintenance shutdown in August, 2008.

Study Team

The study and report will be completed by Mr. John Smith, P.Eng. a Senior Mechanical Engineer with 20 years of experience in designing industrial ventilation and dust collection systems.

Test Equipment

No test equipment will be needed for this study.

Study Cost

The total cost for the work is estimated at $2,500 plus HST. ABC Manufacturing is not seeking any other funding assistance for this study.

END OF FEASIBILITY STUDY PROPOSAL