$PROJECT\_NAME$
$PROJECT\_LOCATION$

Xcel Energy’s Energy Design Assistance Program

$REPORT\_TYPE$

$DATE$

**Prepared for:**

$CLIENT\_NAME$

$CLIENT\_BUSINESS\_NAME$

$CLIENT\_ADDRESS$

$CLIENT\_PHONE$

$CLIENT\_EMAIL$

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Energy Design Assistance Program Process & Timeline

Xcel Energy’s Energy Design Assistance (EDA) process is designed to assist the Owner and Design Team in making decisions concerning energy-efficiency measures for the project. The main steps are:

|  |  |  |
| --- | --- | --- |
| **Construction stage****(ESTIMATE)** | ENERGY DESIGN ASSISTANCE STATE | **DATE** |
| **aPPLICaTIon****Design phase** | Step 1: APPLICATIONComplete applicationXcel Energy accept/reject of application | **$APPROVAL\_DATE$** |
| **PRE/EARLY SCHEMATIC DESIGN PHASE** | Step 2: INTRODUCTIONIntroductory meeting* EDA Program overview
* Energy efficiency measure discussion

Begin collection of building and incremental cost dataEnergy Consultant (EC) submits introductory report | **$INTRO\_DATE$** |
| **Schematic Design phase** | Step 3: PRELIMINARY ENERGY ANALYSIS (PEA)Early massing, HVAC, daylighting (Enhanced Track only)Preliminary energy analysis meeting* Review of analysis results in PEA report
* Selection of measures to be included in final energy analysis

EC submits PEA report | **$ PEA\_DATE $** |
| SD completion |  |
| **Design Development phase** | Step 4: FINAL ENERGY ANALYSIS (FEA)Final energy analysis meeting* Review of updated whole building analysis in FEA report
* Review of program incentives
* Introduction to verification process

Customer selects an energy design alternative, showing an intent to move forward with selected measuresEC submits FEA report | **$BUNDLE\_DATE$** |
| DD completion |  |
| **Construction Document phase** | Step 5: CONSTRUCTION DOCUMENT (CD)Customer sends final design CDs to Measurement & Verification Company (MVC)**Measurement & Verification Company:*** Confirms measures included in final design documents.
* Sends to EC to update model

 **Energy Consultant:*** Submits CD report with updated model results and incentive
* EC complete green certification docs (Enhanced Track only)

Design team completes documentation for fee reimbursement | **$CD\_DATE$** |
| **CD Completion** |  |
| **Construction** | **Construction Occurs. Estimated construction completion date** |  |
| **Construction ends** |  |
| **Post-Occupancy** | MVC conducts on-site measurement and verification. Sends M&V results to EC to update modelEC submits M&V report with updated model results and incentiveEDA project complete. | **$MV\_DATE$** |
| **Incentive payment to customer is received approximately two months post-verification** |

Xcel Energy, through the EDA program, has qualified energy consultants to provide our customers with a service that includes an integrated design process. This integration includes using an energy model to compare building energy scenarios and estimate energy savings. The energy model itself is an instrument to project results and review different energy efficiency opportunities. The results of these models belong to Xcel Energy and their customers as participants through the EDA program.

Xcel Energy customers participating in the EDA program may distribute the results of their model to anyone they choose.  Xcel Energy will not release this information unless written permission from the customer has been obtained.  Xcel Energy also cautions the use of these reports; data is based on an analysis done for a specific time frame.  Buildings naturally adjust as occupancy reaches its full potential, causing variations from pre-construction data.

Project Summary

|  |  |
| --- | --- |
| **Project Name** | **$PIF\_PROJECT\_NAME$** |
| Xcel Energy Project # | $XPF\_XCEL\_PROJECT\_NUMBER$ |
| Location | $PROJECT\_LOCATION$ |
| Building Type | $PIF\_BUILDING\_TYPE$ |
| Conditioned Floor Area | $PIF\_FLOOR\_AREA\_CONDITIONED$ |
| Unconditioned Floor Area | $PIF\_FLOOR\_AREA\_UNCON$ |
| Above-Grade Stories | $PIF\_STORIES\_ABOVE\_GRADE$ |
| Below-Grade Stories | $PIF\_STORIES\_BELOW\_GRADE$ |
| Electricity Provided by Xcel | $APP\_BOOLEAN\_ELECTRICITY$ |
| Natural Gas Provided by Xcel | $APP\_BOOLEAN\_GAS$ |
| District Heating Gas Provided by Xcel | $APP\_BOOLEAN\_DH$ |
| District Cooling Electricity Provided by Xcel | $APP\_BOOLEAN\_DC$ |
| EDA Baseline | $RULE\_BASELINE$ |
| Track (Basic, Express or Enhanced) | $PIF\_TRACK$ |
| Certification (Enhanced Only) | $APP\_CERTIFICATION\_GOAL$  |
| Early Analysis (Enhanced Only) | $PIF\_EARLY\_ANALYSIS$ |
| Estimated Savings (vs. baseline) |  |
|  Demand (kW) | $ESTIMATED\_KW$ |
|  Energy (kWh) | $ESTIMATED\_KWH$ |
|  Gas (Dth) | $ESTIMATED\_DTH$ |
| Estimated Construction Completion Date | $PIF\_COMPLETION\_DATE\_ESTIMATE$ |
| Estimated 80% Occupancy Date | $PIF\_OCCUPANCY\_DATE\_ESTIMATE$ |
| Estimated Verification Date | $PIF\_VERIFICATION\_DATE\_ESTIMATE$ |

|  |
| --- |
| **Customer incentive calculations are based on the following dollar amounts** |
|  Demand ($/kW) | $ $RULE\_ELEC\_DEMAND\_INCENTIVE$ |
|  Energy ($/kWh) | $ $RULE\_ELEC\_ENERGY\_INCENTIVE$ |
|  Gas ($/Dth) | $ $RULE\_GAS\_ENERGY\_INCENTIVE$ |

Project Participants

Project participants include:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Company | Role | E-Mail | Phone | In Attendance |
| $CONTACT\_NAME$ | $CONTACT\_COMPANY$ | $CONTACT\_ROLE$ | $CONTACT\_EMAIL$ | $CONTACT\_PHONE$ |  |

Building Energy Goals Summary

Provide description of energy goals

Analysis Results Summary and Key Findings

Provide summary of analysis results, payback times, and/or key findings of this project

Table ‑ Summary of Financial Impact vs. Proposed Baseline

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Measure | EnergyCost ($) | EnergyCost Savings($)1 | Total % Energy CostSavings(%)2 | Incremental Capital Cost ($)3 | Simple Payback(years)4 |
| $S\_CB\_ID$ | $S\_CB\_NAME$ | $$S\_CB\_COST$ | $$S\_CB\_SVG$ | $S\_CB\_SVGP$ | $$S\_CB\_ICC$ | $S\_CB\_SP$ |

1. Energy Cost Savings = Energy CostProposed Baseline – Energy CostMeasure
2. Total % Energy Cost Savings = (Energy CostEDA Baseline – Energy CostMeasure)/Energy CostEDA Baseline
3. Incremental Capital Cost = Capital CostMeasure – Capital CostProposed Baseline
4. Simple Payback = (Capital CostMeasure – Capital CostProposed Baseline)/(Energy CostProposed Baseline – Energy CostMeasure)

Table ‑ Summary of Savings vs. EDA Baseline

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Measure | PeakDemand (kW) | Electric Consumption (kWh) | Natural Gas Consumption (Dth) | Peak Demand Savings (kW)1 | Electric Consumption Savings(kWh)1 | Natural Gas Savings (Dth)1 |
| $S\_EB\_ID$ | $S\_EB\_NAME$ | $S\_EB\_PD$ | $S\_EB\_EC$ | $S\_EB\_GC$ | $S\_EB\_PDS$ | $S\_EB\_ECS$ | $S\_EB\_GCS$ |

1. Savings relative to EDA Baseline

$CHART\_ANNUAL\_ENERGY\_COSTS\_BY\_END\_USE$

Figure ‑ Annual Utility Cost Breakdown by End Use ($/year)

 Summary information

Table ‑ LEED Summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Measure | EnergyCost ($) | LEED EnergyCost Savings ($)1 | LEED Energy Cost Savings (%)1 | LEED Points2  |
| $S\_LB\_ID$ | $S\_LB\_NAME$ | $$S\_LB\_COST$ | $$S\_LB\_SVG$ | $S\_LB\_SVGP$ | $S\_LB\_LP$ |

1. Savings relative to LEED Baseline
2. Based on LEED Version $LEED\_VERSION$

# Energy Modeling Overview

Xcel Energy and its consultants analyze energy efficiency measures for buildings using OpenStudio, an open source application suite and software development kit (SDK) aimed at accelerating the production of analysis and design tools for the built environment. OpenStudio was developed by the Commercial Buildings Group at the National Renewable Energy Laboratory (NREL) with funding from the Department of Energy (DOE) with the goal of making analysis-driven decision making easier and more common during the building design process. OpenStudio uses DOE’s state-of-the-art EnergyPlus whole-building hourly energy simulation engine.

**Building Characteristics** - Consultants gather building description data and assumptions from the owner and design team to construct models. Energy models are simulated using CO Typical Meteorological Year weather files.

**Incremental Costs and Payback Analysis** - The design team supplies incremental construction costs for each energy efficiency measure in order to make informed decisions about energy measures and the paybacks. Gathering building data and costs are some of the required tasks of the design team in order to receive a design team incentive.

## Baseline Models

**EDA Baseline** – This building energy analysis uses a baseline model as a benchmark to compare energy performance for energy efficiency measures. Models follow the Xcel Energy EDA protocol, which is based on an ASHRAE 90.1compliant baseline building energy model developed following Appendix G energy modeling requirements, with modifications for Xcel Energy’s utility purposes.

This Base model will match the space heating energy source of the proposed building: either electricity or fuel. If the design team is considering scenarios with all electric heating as well as scenarios with natural gas or hybrid heating, two different EDA Base models will be required to calculate energy and cost savings for the different proposed buildings. The baseline model calculates kWh electricity, kW electric demand, and dekatherm (10 therms) natural gas usage. This is the baseline to calculate savings for incentives from Xcel Energy.

**Certification Baseline** – When a 3rd party-verified certification is being pursued (such as LEED) under the EDA enhanced track, a separate baseline and modeling will be conducted using the certification requirements.

**Proposed Baseline** – The Cost Base model is developed to be used by the Design Team and Owner to calculate energy cost savings and payback periods for various energy efficiency strategies. Energy consultants guide teams through the process of using the economics of energy efficiency to make design decisions.

.

## EDA Baseline Model Description and Assumptions

Provide baseline envelope, lighting, and HVAC system description

See Modeling Inputs and Assumptions for more details on the EDA Baseline Model.

## Certification Baseline Model Description and Assumptions

The Certification Baseline differs from the EDA baseline in the following ways:

* List
* List

See Modeling Inputs and Assumptions for more details on the Certification Baseline Model.

## Proposed Baseline Model Description and Assumptions

The Proposed Baseline differs from the EDA/Certification baseline in the following ways:

* List
* List

# EDA Baseline Results

The following figures show the energy cost, demand, and consumption breakdowns for the EDA Baseline building model. Baselines assume all energy design parameters meet the prevailing energy code and provide for comparison for all modeled energy measures.

$CHART\_BASELINE\_ENERGY\_COSTS$

Figure ‑ EDA Baseline Annual Utility Cost Breakdown by Fuel Type ($/year)

$CHART\_BASELINE\_ENERGY\_COSTS\_BY\_END\_USE$

Figure ‑ EDA Baseline Annual Utility Cost Breakdown by End Use ($/year)

$CHART\_BASELINE\_MONTHLY\_ELECTRICITY\_DEMAND$

Figure ‑ EDA Baseline Peak Electric Demand per Month by End Use (kW)

$CHART\_BASELINE\_MONTHLY\_ELECTRICITY\_CONSUMPTION$

Figure ‑ EDA Baseline Electricity Consumption per Month by End Use (kWh)

$CHART\_BASELINE\_MONTHLY\_GAS\_CONSUMPTION$

Figure ‑ EDA Baseline Natural Gas Consumption per Month by End Use (Dth)

# Energy Efficiency Measure Analysis

The following tables show results for each of the measures modeled and analyzed, including:

* Building envelope
* Interior loads
* HVAC systems
* Other

Annual energy cost savings are shown for each measure, along with cost premium estimates. These values were used to calculate simple paybacks.

## Building Envelope Energy Efficiency Measures

Describe the measures, modeling approaches, how cost estimates were obtained, etc.

Table ‑ Envelope Measures - Annual Savings vs. Proposed Baseline

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Measure | EnergyCost ($) | Energy CostSavings($)1 | Total % Energy Cost Savings(%)2 | Incremental CapitalCost ($)3 | Simple Payback(years)4 |
| $ENV\_ID$ | $ENV\_NAME$ | $$ENV\_COST$ | $$ENV\_SVG$ | $ENV\_SVGP$ | $$ENV\_ICC$ | $ENV\_SP$ |

1. Energy Cost Savings = Energy CostProposed Baseline – Energy CostMeasure
2. Total % Energy Cost Savings = (Energy CostEDA Baseline – Energy CostMeasure)/Energy CostEDA Baseline
3. Incremental Capital Cost = Capital CostMeasure – Capital CostProposed Baseline
4. Simple Payback = (Capital CostMeasure – Capital CostProposed Baseline)/(Energy CostProposed Baseline – Energy CostMeasure)

### Discussion of Building Envelope Measures

**$M\_ENV\_NAME\_0$**

$M\_ENV\_DESC\_0$

**$M\_ENV\_NAME\_1$**

$M\_ENV\_DESC\_1$

**$M\_ENV\_NAME\_2$**

$M\_ENV\_DESC\_2$

**$M\_ENV\_NAME\_3$**

$M\_ENV\_DESC\_3$

**$M\_ENV\_NAME\_4$**

$M\_ENV\_DESC\_4$

**$M\_ENV\_NAME\_5$**

$M\_ENV\_DESC\_5$

**$M\_ENV\_NAME\_6$**

$M\_ENV\_DESC\_6$

**$M\_ENV\_NAME\_7$**

$M\_ENV\_DESC\_7$

**$M\_ENV\_NAME\_8$**

$M\_ENV\_DESC\_8$

**$M\_ENV\_NAME\_9$**

$M\_ENV\_DESC\_9$

**$M\_ENV\_NAME\_10$**

$M\_ENV\_DESC\_10$

**$M\_ENV\_NAME\_11$**

$M\_ENV\_DESC\_11$

**$M\_ENV\_NAME\_12$**

$M\_ENV\_DESC\_12$

**$M\_ENV\_NAME\_13$**

$M\_ENV\_DESC\_13$

**$M\_ENV\_NAME\_14$**

$M\_ENV\_DESC\_14$

**$M\_ENV\_NAME\_15$**

$M\_ENV\_DESC\_15$

**$M\_ENV\_NAME\_16$**

$M\_ENV\_DESC\_16$

**$M\_ENV\_NAME\_17$**

$M\_ENV\_DESC\_17$

**$M\_ENV\_NAME\_18$**

$M\_ENV\_DESC\_18$

**$M\_ENV\_NAME\_19$**

$M\_ENV\_DESC\_19$

## Lighting and Interior Load Energy Efficiency Measures

Describe the measures, modeling approaches, how cost estimates were obtained, etc.

Table ‑ Lighting and Interior Load Measures - Annual Savings vs. Proposed Baseline

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Measure | EnergyCost ($) | Energy CostSavings($)1 | Total % Energy Cost Savings(%)2 | Incremental CapitalCost ($)3 | Simple Payback(years)4 |
| $LTG\_ID$ | $LTG\_NAME$ | $$LTG\_COST$ | $$LTG\_SVG$ | $LTG\_SVGP$ | $$LTG\_ICC$ | $LTG\_SP$ |

1. Energy Cost Savings = Energy CostProposed Baseline – Energy CostMeasure
2. Total % Energy Cost Savings = (Energy CostEDA Baseline – Energy CostMeasure)/Energy CostEDA Baseline
3. Incremental Capital Cost = Capital CostMeasure – Capital CostProposed Baseline
4. Simple Payback = (Capital CostMeasure – Capital CostProposed Baseline)/(Energy CostProposed Baseline – Energy CostMeasure)

### Discussion of Lighting and Interior Load Measures

**$M\_LTG\_NAME\_0$**

**$M\_LTG\_DESC\_0$**

**$M\_LTG\_NAME\_1$**

**$M\_LTG\_DESC\_1$**

**$M\_LTG\_NAME\_2$**

**$M\_LTG\_DESC\_2$**

**$M\_LTG\_NAME\_3$**

**$M\_LTG\_DESC\_3$**

**$M\_LTG\_NAME\_4$**

**$M\_LTG\_DESC\_4$**

**$M\_LTG\_NAME\_5$**

**$M\_LTG\_DESC\_5$**

**$M\_LTG\_NAME\_6$**

**$M\_LTG\_DESC\_6$**

**$M\_LTG\_NAME\_7$**

**$M\_LTG\_DESC\_7$**

**$M\_LTG\_NAME\_8$**

**$M\_LTG\_DESC\_8$**

**$M\_LTG\_NAME\_9$**

**$M\_LTG\_DESC\_9$**

**$M\_LTG\_NAME\_10$**

**$M\_LTG\_DESC\_10$**

**$M\_LTG\_NAME\_11$**

**$M\_LTG\_DESC\_11$**

**$M\_LTG\_NAME\_12$**

**$M\_LTG\_DESC\_12$**

**$M\_LTG\_NAME\_13$**

**$M\_LTG\_DESC\_13$**

**$M\_LTG\_NAME\_14$**

**$M\_LTG\_DESC\_14$**

**$M\_LTG\_NAME\_15$**

**$M\_LTG\_DESC\_15$**

**$M\_LTG\_NAME\_16$**

**$M\_LTG\_DESC\_16$**

**$M\_LTG\_NAME\_17$**

**$M\_LTG\_DESC\_17$**

**$M\_LTG\_NAME\_18$**

**$M\_LTG\_DESC\_18$**

**$M\_LTG\_NAME\_19$**

**$M\_LTG\_DESC\_19$**

## HVAC & DHW Efficiency Measures

Describe the measures, modeling approaches, how cost estimates were obtained, etc.

Table ‑ HVAC & DHW Measures - Annual Savings vs. Proposed Baseline

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Measure | EnergyCost ($) | Energy CostSavings($)1 | Total % Energy Cost Savings(%)2 | Incremental CapitalCost ($)3 | Simple Payback(years)4 |
| $HVAC\_ID$ | $HVAC\_NAME$ | $$HVAC\_COST$ | $$HVAC\_SVG$ | $HVAC\_SVGP$ | $$HVAC\_ICC$ | $HVAC\_SP$ |

1. Energy Cost Savings = Energy CostProposed Baseline – Energy CostMeasure
2. Total % Energy Cost Savings = (Energy CostEDA Baseline – Energy CostMeasure)/Energy CostEDA Baseline
3. Incremental Capital Cost = Capital CostMeasure – Capital CostProposed Baseline
4. Simple Payback = (Capital CostMeasure – Capital CostProposed Baseline)/(Energy CostProposed Baseline – Energy CostMeasure)

### Discussion of HVAC & DHW Measures

**$M\_HVAC\_NAME\_0$**

**$M\_HVAC\_DESC\_0$**

**$M\_HVAC\_NAME\_1$**

**$M\_HVAC\_DESC\_1$**

**$M\_HVAC\_NAME\_2$**

**$M\_HVAC\_DESC\_2$**

**$M\_HVAC\_NAME\_3$**

**$M\_HVAC\_DESC\_3$**

**$M\_HVAC\_NAME\_4$**

**$M\_HVAC\_DESC\_4$**

**$M\_HVAC\_NAME\_5$**

**$M\_HVAC\_DESC\_5$**

**$M\_HVAC\_NAME\_6$**

**$M\_HVAC\_DESC\_6$**

**$M\_HVAC\_NAME\_7$**

**$M\_HVAC\_DESC\_7$**

**$M\_HVAC\_NAME\_8$**

**$M\_HVAC\_DESC\_8$**

**$M\_HVAC\_NAME\_9$**

**$M\_HVAC\_DESC\_9$**

**$M\_HVAC\_NAME\_10$**

**$M\_HVAC\_DESC\_10$**

**$M\_HVAC\_NAME\_11$**

**$M\_HVAC\_DESC\_11$**

**$M\_HVAC\_NAME\_12$**

**$M\_HVAC\_DESC\_12$**

**$M\_HVAC\_NAME\_13$**

**$M\_HVAC\_DESC\_13$**

**$M\_HVAC\_NAME\_14$**

**$M\_HVAC\_DESC\_14$**

**$M\_HVAC\_NAME\_15$**

**$M\_HVAC\_DESC\_15$**

**$M\_HVAC\_NAME\_16$**

**$M\_HVAC\_DESC\_16$**

**$M\_HVAC\_NAME\_17$**

**$M\_HVAC\_DESC\_17$**

**$M\_HVAC\_NAME\_18$**

**$M\_HVAC\_DESC\_18$**

**$M\_HVAC\_NAME\_19$**

**$M\_HVAC\_DESC\_19$**

## Early Analysis

Describe the types of early analysis performed, the outcome of discussing these results with the design team and customer, and the modeling results as compared to an EDA baseline.

1. Modeling Inputs and Assumptions

Show summary info about models. Format is up to the Energy Consultant. Generally good practice to point out differences between the EDA Baseline, Proposed Baseline, and LEED Baseline.

* 1. Location and Climate Data

Summary Info

* 1. Utility Rates

Summary Info

* 1. Building Envelope Model Inputs

Summary Info

* 1. Lighting and Internal Load Inputs

Summary Info

* 1. HVAC and DHW Inputs

Summary Info

1. Modeling Results Summary
	1. Master Results Table – Individual Measures

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Measure | EnergyCost ($) | ElectricityCost($) | GasCost($) | DistrictHeatingCost($) | DistrictCoolingCost($) | OtherEnergyCost($) | ProposedBaselineEnergy Cost Savings($)1 | EDABaselineEnergy Cost Savings($)2 | LEED BaselineEnergy CostSavings($)3 | LEED Points4 | PeakDemand (kW) | Electric Consumption (kWh) | Natural Gas Consumption (Dth) | Peak Demand Savings(kW)5 | ElectricConsumption Savings(kWh)5 | Natural Gas Savings (Dth)5 | EUIReduction(kBtu/ft2-yr)5 | IncrementalCapitalCost ($)6 | Simple Payback(years)7 |
| $MR\_ID$ | $MR\_NAME$ | $$MR\_COST$ | $$MR\_ELEC\_COST$ | $$MR\_GAS\_COST$ | $$MR\_DH\_COST$ | $$MR\_DC\_COST$ | $$MR\_O\_COST$ | $$MR\_CB\_SVG$ | $$MR\_EB\_SVG$ | $$MR\_LB\_SVG$ | $MR\_LP$ | $MR\_PD$ | $MR\_EC$ | $MR\_GC$ | $MR\_PDS$ | $MR\_ECS$ | $MR\_GCS$ | $MR\_EUI\_R$ | $$MR\_ICC$ | $MR\_SP$ |

1. Proposed Baseline Energy Cost Savings = Energy CostProposed Baseline – Energy CostMeasure
2. EDA Energy Cost Savings = Energy CostEDA Baseline – Energy CostMeasure
3. LEED Energy Cost Savings = Energy CostLEED Baseline – Energy CostMeasure
4. Based on LEED Version XYZ
5. Energy, Demand, and EUI Savings relative to EDA Baseline
6. Incremental Capital Cost = Capital CostMeasure – Capital CostProposed Baseline
7. Simple Payback = (Capital CostMeasure – Capital CostProposed Baseline)/(Energy CostProposed Baseline – Energy CostMeasure)