

Case Study: Clinton Climate Initiative

- CCI combats climate change by helping cities reduce their greenhouse gas emissions
- Energy Efficiency Building Retrofit Program aims to reduce energy consumption in existing buildings

CCI's UNIQUE APPROACH

Urban areas are responsible for approximately 75 percent of all greenhouse gas emissions in the world. Therefore, reducing energy use and emissions in cities is fundamental to any effort to slow the pace of global warming.

In its first phase, CCI is working with the C40 Large Cities Climate Leadership Group, an association of large cities that have pledged to accelerate their efforts to reduce greenhouse gas emissions and serve as models for other cities.

To enable its partner cities to reduce energy use and greenhouse gas emissions, CCI is:

- Creating a purchasing consortium to pool the buying power of cities in order to lower the prices of energy-efficient products and to accelerate the development of new energy-saving technologies.**
- Mobilizing the best technical experts in the world and creating local capacity to develop and implement programs that result in reduced energy use and greenhouse gas emissions.**
- Developing common measurement and information flow tools that allow cities to track the effectiveness of their programs and share what works and does not work with each other.**

Project

Objective

Define framework for an improved model that building owners can use to analyze costs and benefits of building retrofit projects

Approach

- Determine user requirements
- Identify gaps in existing models
- Create and test framework for improved model

Recommendations

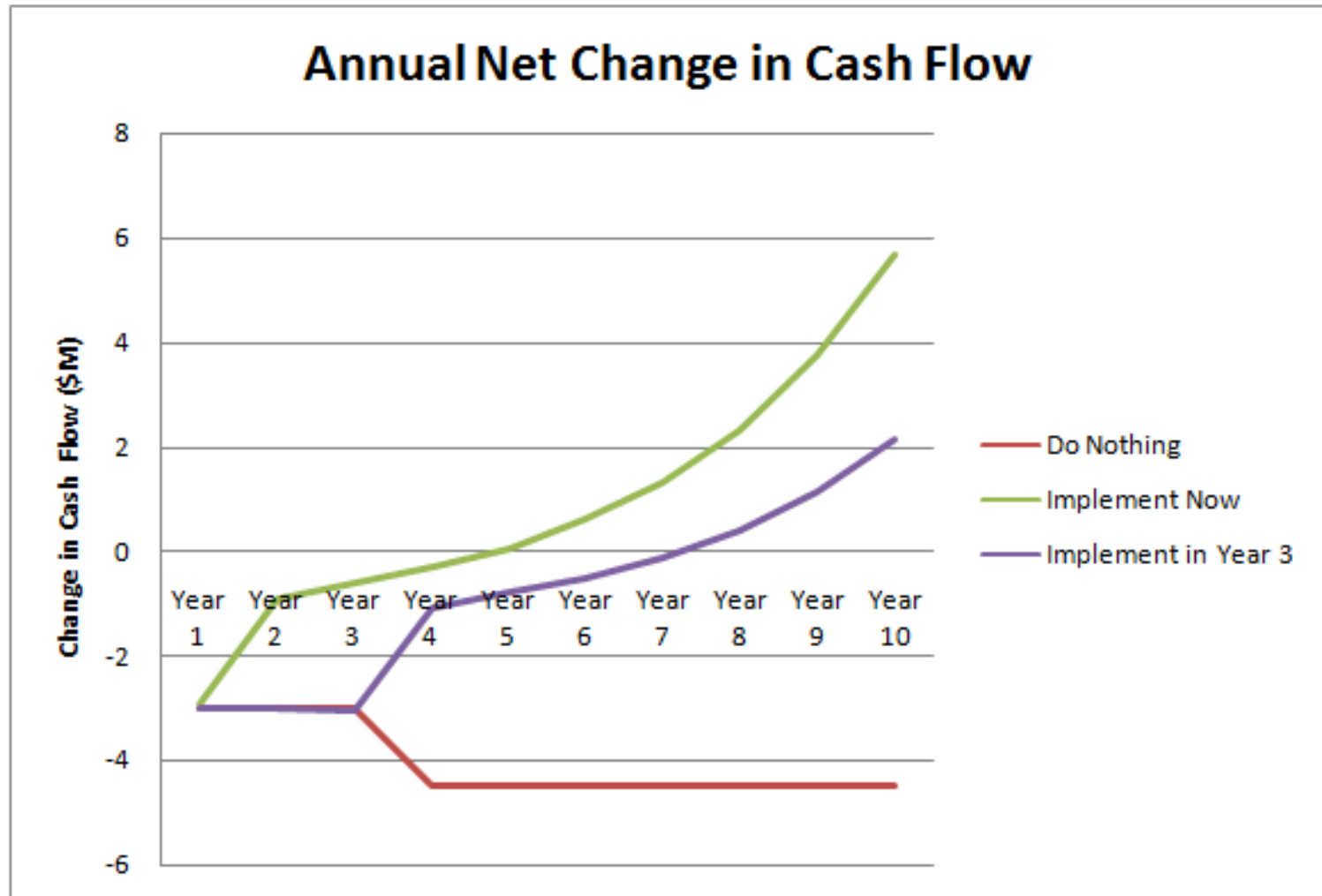
Additions to Model Inputs

- Timing of outlays and savings
- Mixed capital funding sources
- Tax shields from accelerated depreciation
- Variable annual savings (energy & O&M)

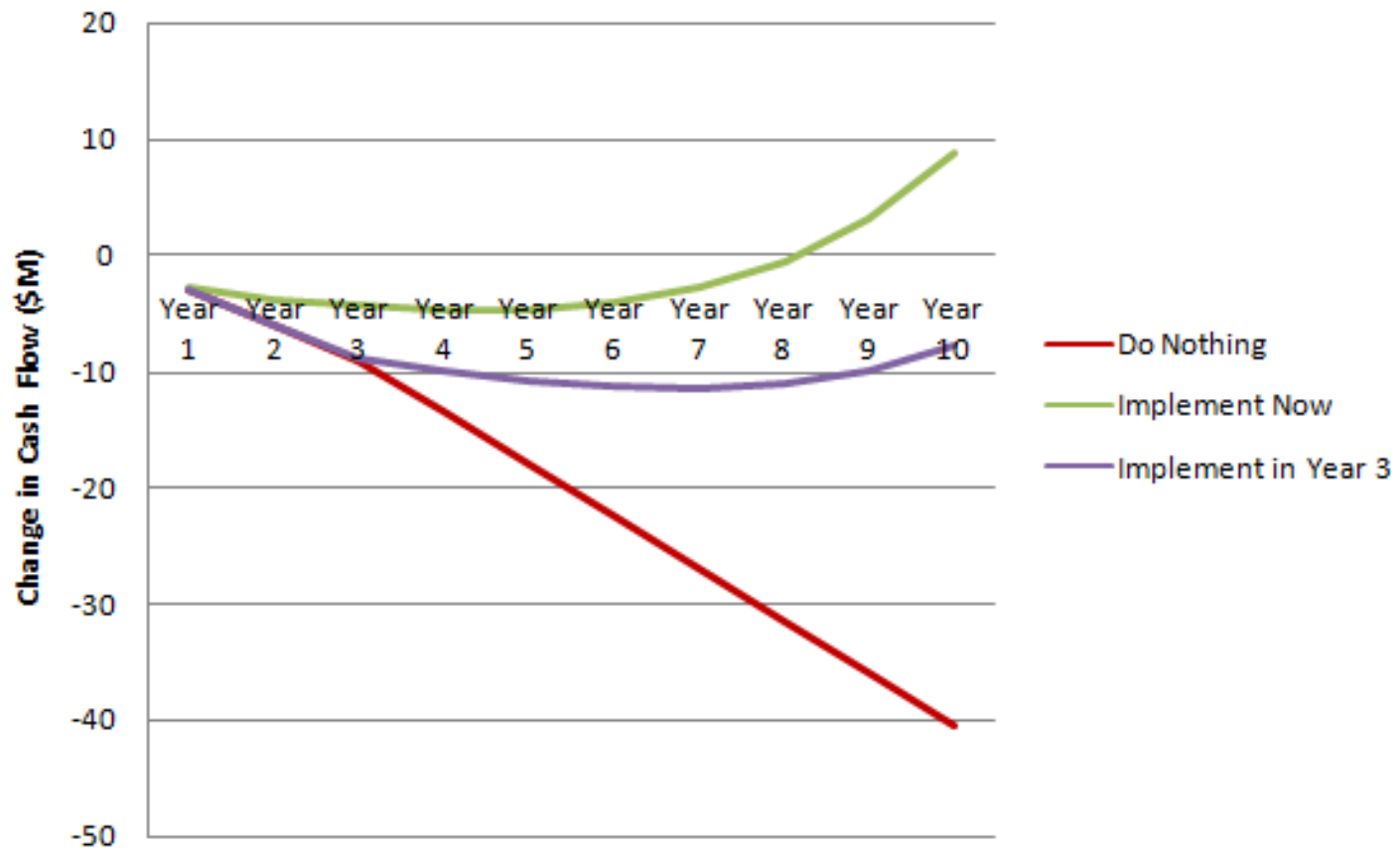
Additions to Model Outputs

- Comparison on annual cash flows
- Highlight energy savings potentially lost

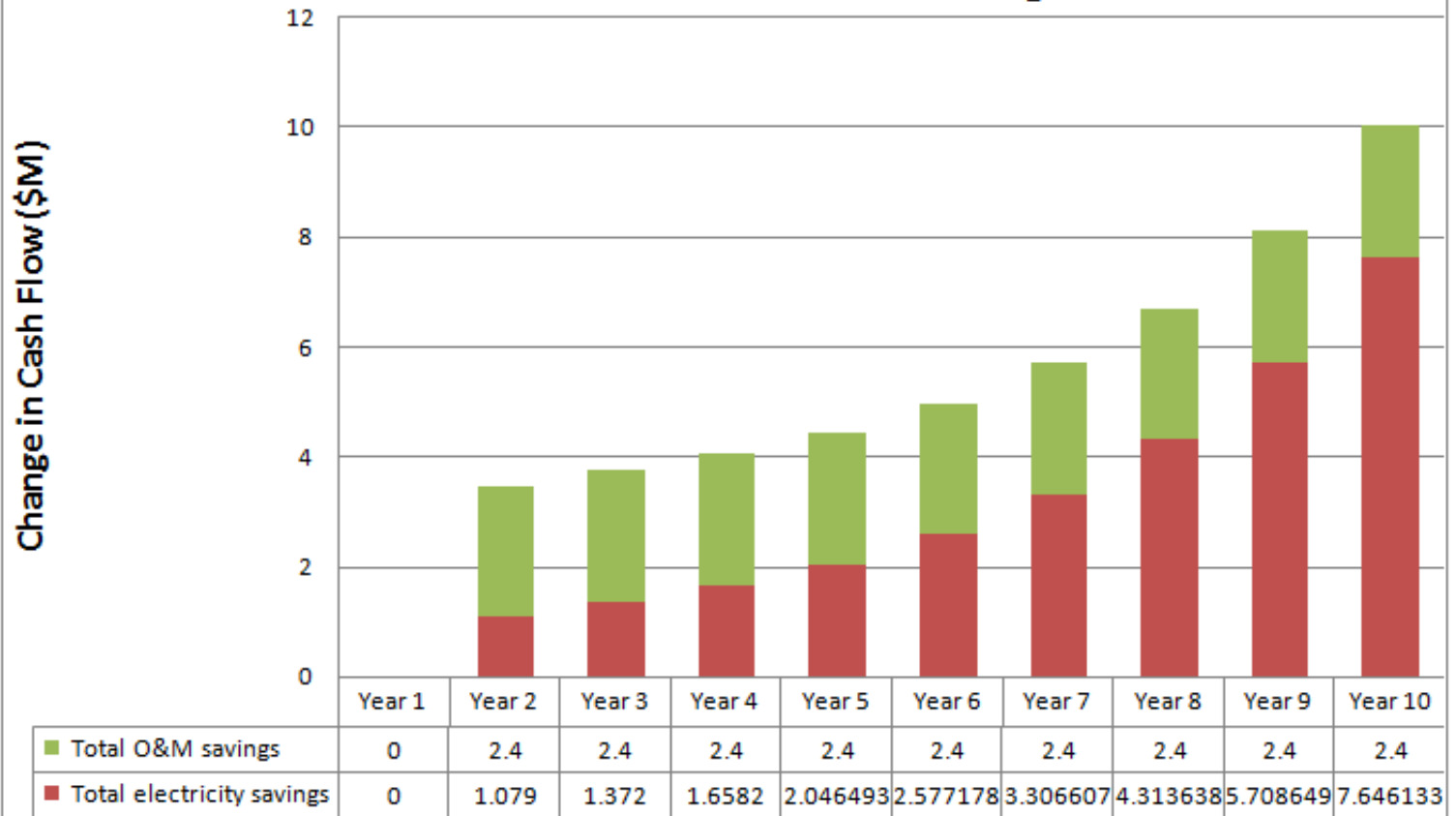
Sample Model Output



Cumulative Net Change in Cash Flow



Annual Savings



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