NET ZERO

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NZR

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CODE

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Energy Efficiency Capital Costs

Commercial 20-Year Costs

Community
NET ZERO

NZR

CODE

Commercial 20-Year Costs

Community
NZR commercial buildings saves $3.3 million over 20 years.
NET ZERO

NZR

CODE

Community Commercial 20-Year Costs

NZ-with-the-Federal-tax-credit-saves-$4.8-million-over-20-years

Tax Credit for PV with 30% Federal
Net Zero saves over $8 million in 30 years for multiple owners.
Open Office with Natural Gas

- 1st-year costs
  - $1.43/therm (VT Sept 15 price)
Open Office with Natural Gas

20-YR

$130,000 Savings

$800,000

$600,000

$0

$200,000

$400,000

$800,000

$830,000

$0

$200,000

$400,000

$800,000

$830,000

Propane

Natural

GAS

CODE

NZR

NET ZERO

CODE

NZR

NET ZERO

20-year costs

$1.43/therm (V/ Sep, 15 price)
Cumulative costs for Net Zero Ready Office in 2014 dollars

- 20 yr Cumulative Savings of NZR above code: $280,000
- Source: Medley Architects

Cumulative energy and financing costs for Propane

Years from project start

Code Open

NZR Code Ready - Financed

$0 $100,000 $200,000 $300,000 $400,000 $500,000 $600,000 $700,000 $800,000 $900,000 $1,000,000
Overall Lessons

- Interest rates likely to rise
- Fuel volatility and current low cost of fossil fuels
- Appraisals typically do not value NZR construction rebates unknown
- Future of Federal Renewable Tax Credits and rebates and incentives make a difference
- Financing options impact ROI
- Building type affects costs and ROI
- Stability
- Reduces operating cost volatility and provides
Additional NZR construction is $13-16 / st (~10%) marketplace
Cost for ASHP are low and established in the excellent investment (low 30-yr mortgage rates)
Residential owner occupied buildings are an

Lessons Learned - Residential
Lessons Learned – Commercial

- Additional NZR construction is $9-$17 / sf (~10%) VEBA improve NZR financial performance
- Longer term fixed commercial loans with SBA and ASHPs
- In buildings with AC, there is no additional cost for closed offices
- Open offices are cheaper to own and operate than NZR office/manufacturer are cash flow neutral
- NZR offices are a very good investment
To access the Summary Report and the Full Report, visit:

https://www.energycirclevermont.com/news-blog/whitepapers/net-zero-energy-

Read / Share the Study

Feasibility Study