ACEE ENERGY EFFICIENCY FINANCE FORUM Tarrytown NY, May 2018

COST EFFECTIVENESS TESTING OF FINANCING PROGRAMS

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DUNSKY OVERVIEW



EXPERTISE



SERVICES



ASSESS opportunities

DESIGN strategies

EVALUATE performance



FINANCING COST-EFFECTIVENESS TESTING

WHAT IS IT, AND WHY DO I CARE?



- Cost-Effectiveness Tests assess the ratio of: Present Value of Benefits Present Value of Costs
- Three test, three perspectives
 - ► Global: Total Resources Costs Test or Societal Cost Test (TRC or SCT)
 - ► Utility: Program Administrators Cost (PAC)
 - ► Participant Cost Test (PCT)
- Why its important for Financing programs?
 - Used to measure the economic merits of a program
 - Applied as screens for rate-payer supported programs
- Today's Question: can cost-effectiveness test fairly be applied to financing, and if so under what circumstances and by what methods?





FINANCING COST-EFFECTIVENESS

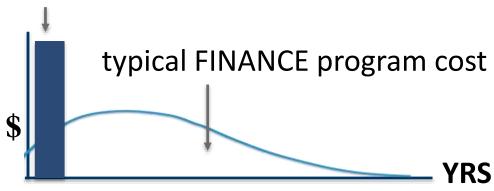
THE CHALLENGES



Fundamental differences between finance and incentives

1. TIME

typical INCENTIVE cost



2. SCOPE: Includes additional factors such as participant interest rate reductions and non-energy investments.

To help the CPUC address this challenge, in 2014 Dunsky prepared an CE framework tailored for financing



CALIFORNIA REGIONAL PILOTS



OBJECTIVES

- Apply financing-specific CE framework and compare with current Standard Practice Manual (SPM) interpretation
 - Non-energy investments (benefits)
 - Reduced interest rates (APR benefits)
 - Loan Loss Reserve costs/losses
 - Applied TRC and PAC
- Compare cost-effectiveness of financing + incentives versus the incentive alone.
- Test cost-effectiveness sensitivity to key metrics that may change over time (post program year) or require interpretation.
- Identify implications for other financing programs determining when and how cost-effectiveness testing may be appropriately applied.

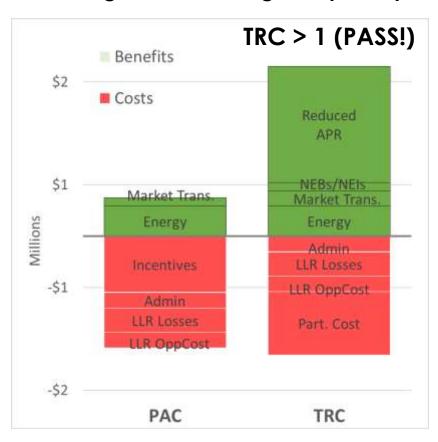


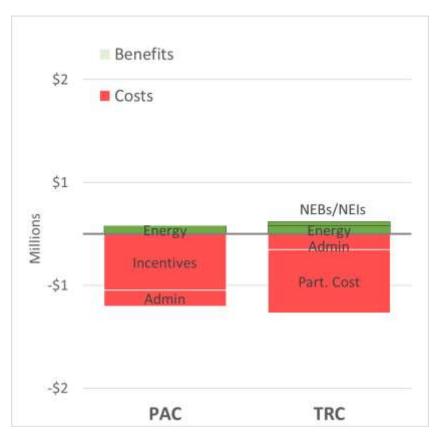
CASE STUDY: REGIONAL FINANCING PILOTS

FINANCING VS INCENTIVES



Financing + Incentives proved to be much more cost effective than incentives alone for the Regional Financing Pilot participants.





Financing + Incentives

Incentives alone

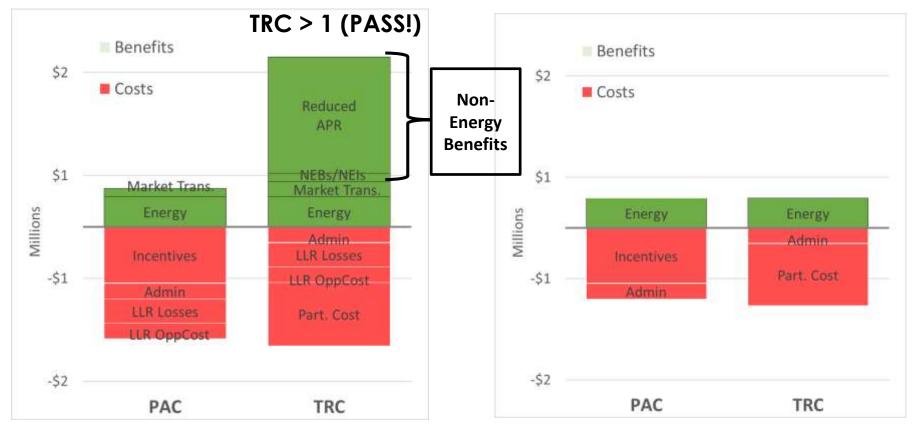


CASE STUDY: REGIONAL FINANCING PILOTS

FINANCING-SPECIFIC FRAMEWORK



Non-energy (financial) benefits far outweigh the energy benefits under TRC allowing Financing + Incentive program combination to Pass the CE test.



Financing-Specific CE Framework

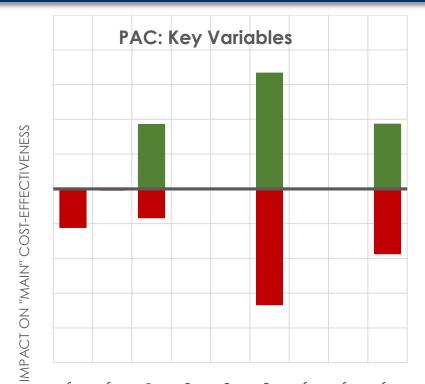
Standard Framework (CA SPM)



FINANCING COST-EFFECTIVENESS

CE TEST SENSITIVITIES







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KEY TAKE AWAYS



- Whenever possible assess CE of Financing together with Incentives.
- Financing can be tested independently only when there are participants who took only financing but no incentives (e.g. no incentives offered)
- Where Financing is included in CE testing

Program Type	Non-Energy Investments/Benefits	APR Reduction	Early or Non Repayment
Interest Rate Buydown	Yes	No	No
Direct lending (or co-lending)	Yes	Maybe	Yes
Loan Loss Reserve (Guarantees)	Yes	Yes	Yes



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