

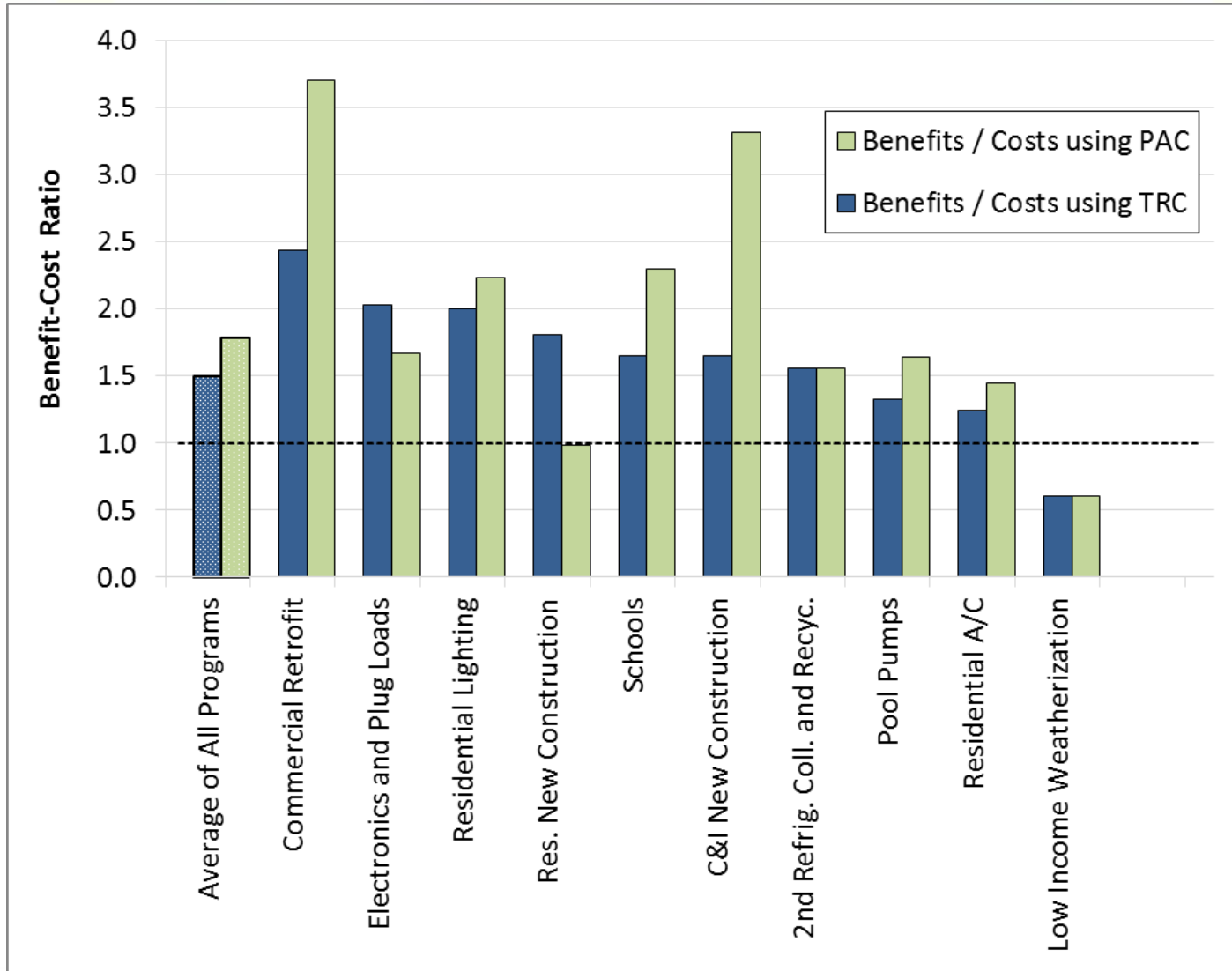


Synapse
Energy Economics, Inc.

Energy Efficiency Cost-Effectiveness Tests

NEEP Annual Public Meeting
October 12, 2011
Tim Woolf

TRC vs PAC: From 2012 Efficiency Plan



MA Non-Energy Impacts (NEI) Study

- August 2011 study prepared by Tetra Tech and NMR
- Goals:
 - Reliably quantify NEIs associated with PA programs.
 - Assess reliability and applicability of NEI values in literature to MA PA programs.
 - Quantify applicable NEI's to residential and low-income programs.
- Reviewed 56 non-energy impacts.
- Quantified 31 non-energy impacts .

MA NEI Study: Non-Energy Categories - 1

Utility Perspective

- Reviewed 11 impacts, quantified 8 distinct impacts
- Arrearages
- Bad debt write-off
- Rate discounts
- Customer calls
- Collection notices
- Insurance savings

Participant Perspective

- Reviewed 29 impacts, quantified 12 distinct impacts
- Improved comfort levels
- Quieter interior environment
- Increased housing property value
- Reduced water and sewer costs
- More durable home and less maintenance
- Health related NEIs
- Improved safety

Societal Perspective

- Reviewed 6 impacts, quantified 1 distinct impact
- National security

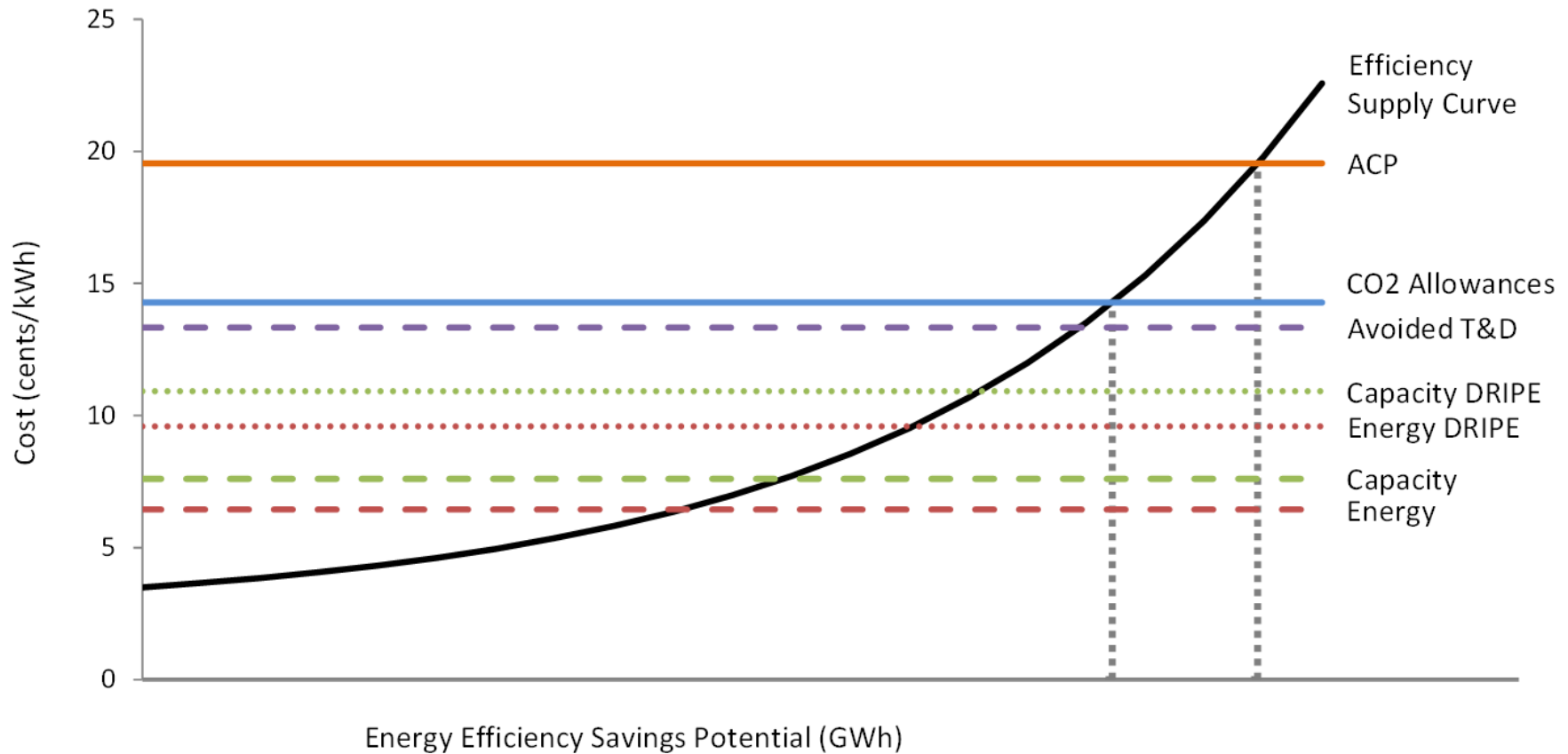
Non-Resource Benefits

- Reviewed and quantified 3 distinct impacts
- Avoided landfill space
- Reduced emissions from recycling and incineration

Participant Perspective (Landlord)

- Reviewed and quantified 7 distinct impacts
- Reduced tenant turnover
- Improved marketability to find renters
- Property values
- Equipment maintenance (HVAC)
- Reduced lighting maintenance
- Reduced tenant complaints
- Durability of property

ACP as a Proxy for the Cost of Compliance with Environmental Regulations – Implications



Cost of Saved Energy for 2010 MA EE Programs

