



# Evaluation in a Changing and Messy Environment

Ingo Bensch

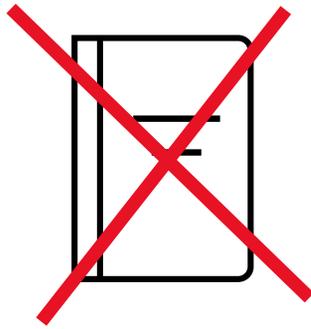
Presented at IEPEC 2025

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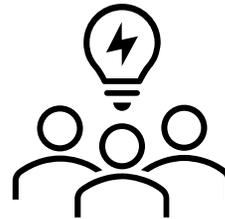
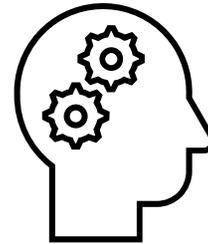


# This is intended to be a **thought piece** about the future directions of energy evaluation.

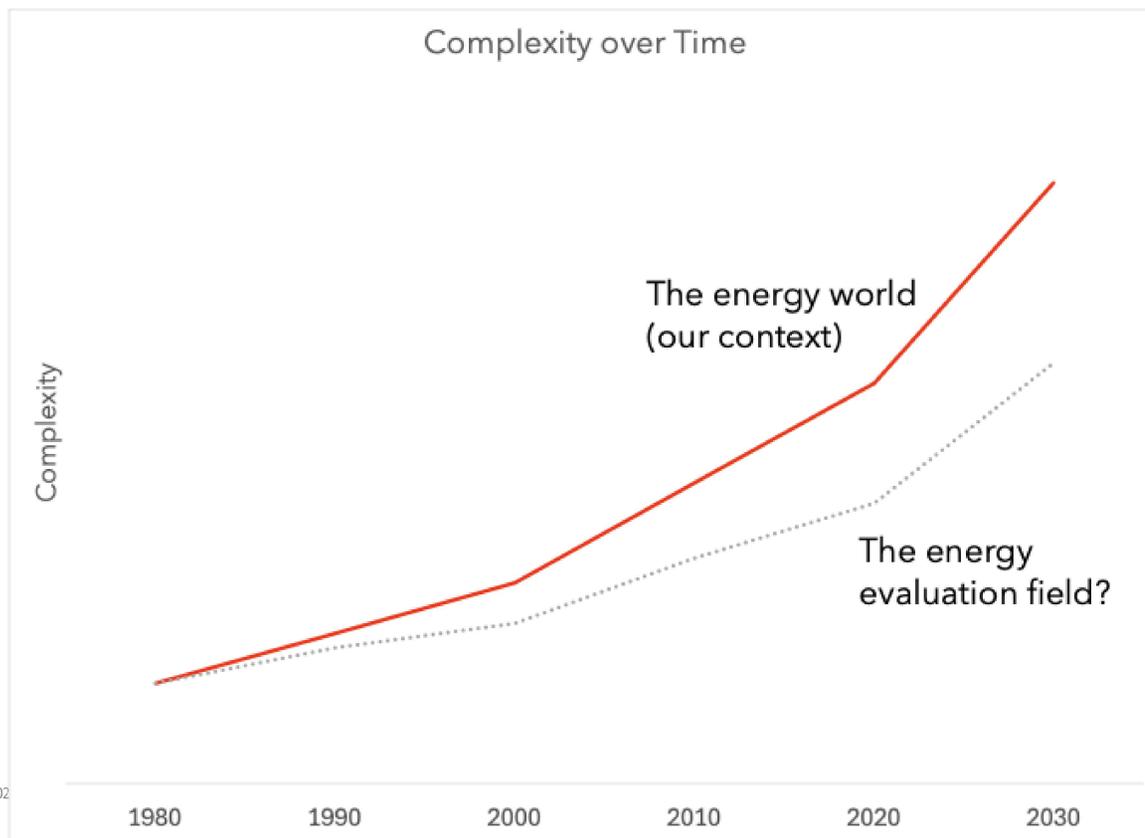
There is no project, client, or report.



Just a paper intended to get us thinking about change and where we are going.



**New demands and challenges** for energy evaluation require us to **evolve** as a professional field.

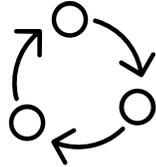


Increased complexity in

- Industry structure
- Energy sources feeding the grid
- Policy goals driving programs
- Program goals
- Roles evaluators play on programs
- Topics evaluators are asked to address
- Topics for which evaluators could provide useful input

# The plan

- 1/ Set the context
- 2/ Highlight a few challenges we face
- 3/ Suggest some solutions
- 4/ Spur dialogue and thinking



# Preview (for slide readers)



Energy programs are trying to do new and different things

Programs now come with multiple policy goals

Programs are being used to contribute to complex policy needs collectively

Complex energy objectives in a changed societal landscape



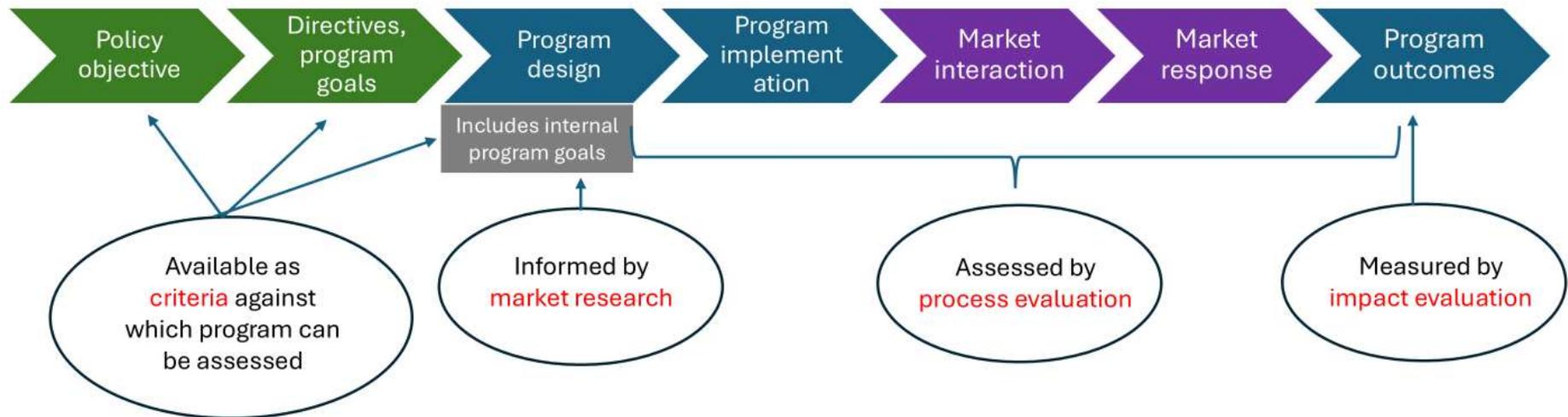
# Level Setting on Evaluation (abbreviated)

# Level-setting on evaluation concepts

**Evidence-based inquiry** that seeks to document and enhance the effectiveness of programs, initiatives, or interventions

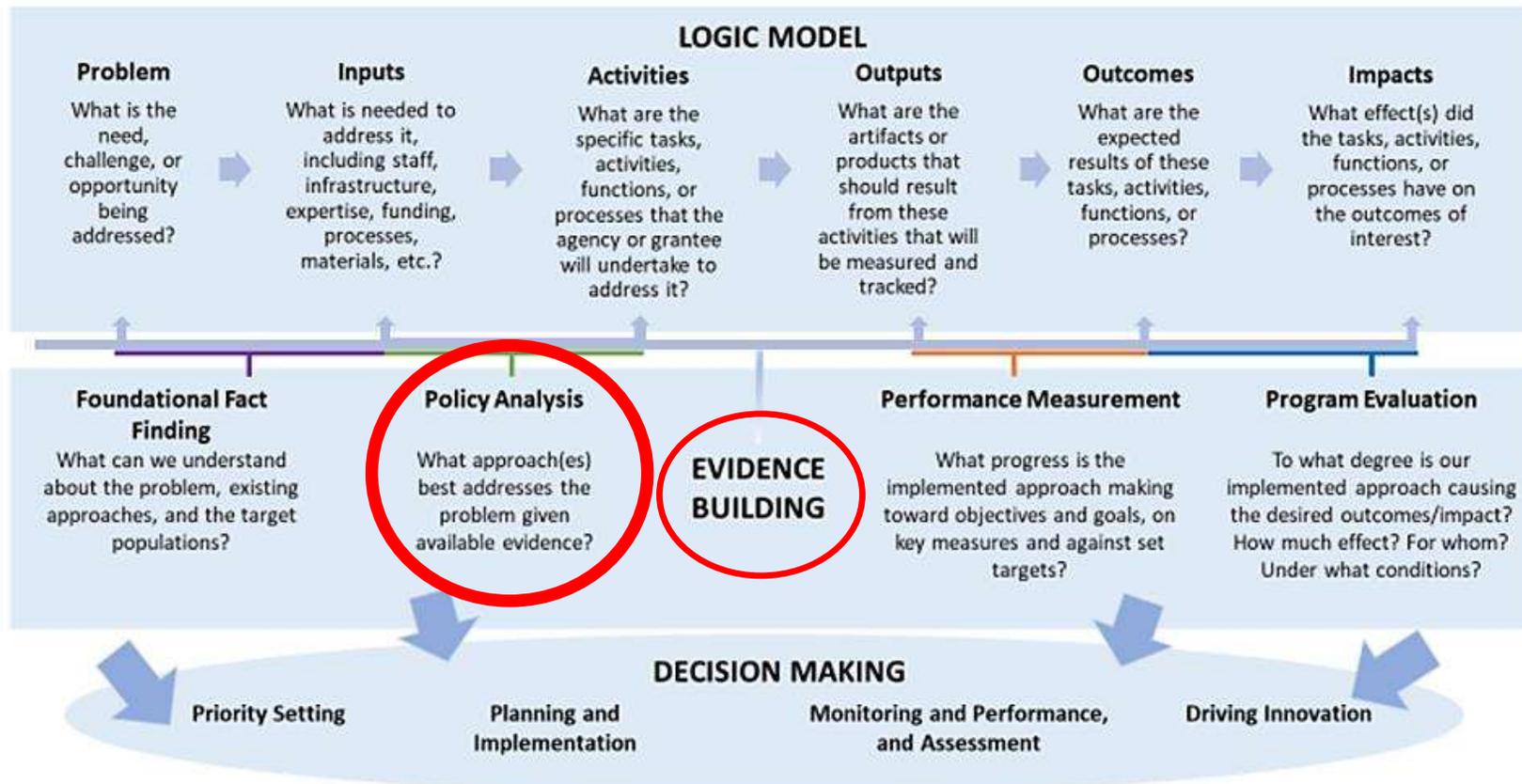
**Evaluators may serve various functions at different times:** formative evaluation / market research, process evaluation, impact evaluation

**Criteria** against which programs are judged **are essential**



# Level-setting on evaluation concepts

## Tackling the policy objective IS part of evaluation



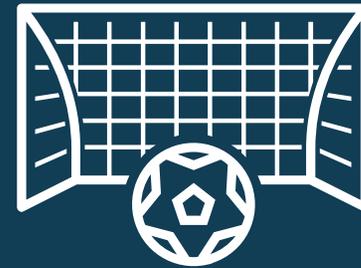
# 2/

## Thoughts on a Few Emerging Issues and Needs

Energy programs are trying to do new and different things (and our evaluation approaches do not go far enough)



# New goals



# Energy programs are trying to do new and different things (and our evaluation approaches do not go far enough)

Illustrative Example: **Equity**

What we do:

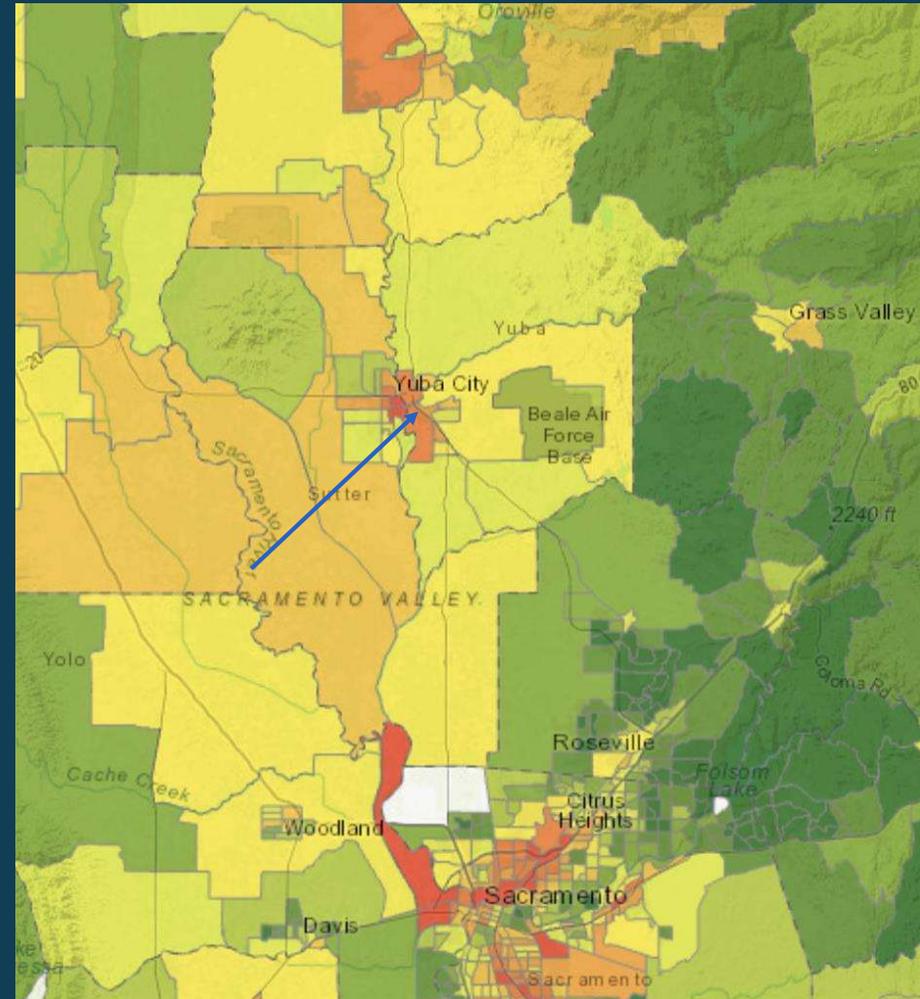
**Account for activity in targeted areas**

What we can't / don't do well (yet):

- 1. Make DACs meaningful for business programs**
- 2. Account for what is program-actionable**

Our challenge:

- 1. Fine-tune our use of targeted communities**
- 2. Be more thoughtful about what programs can accomplish for whom**



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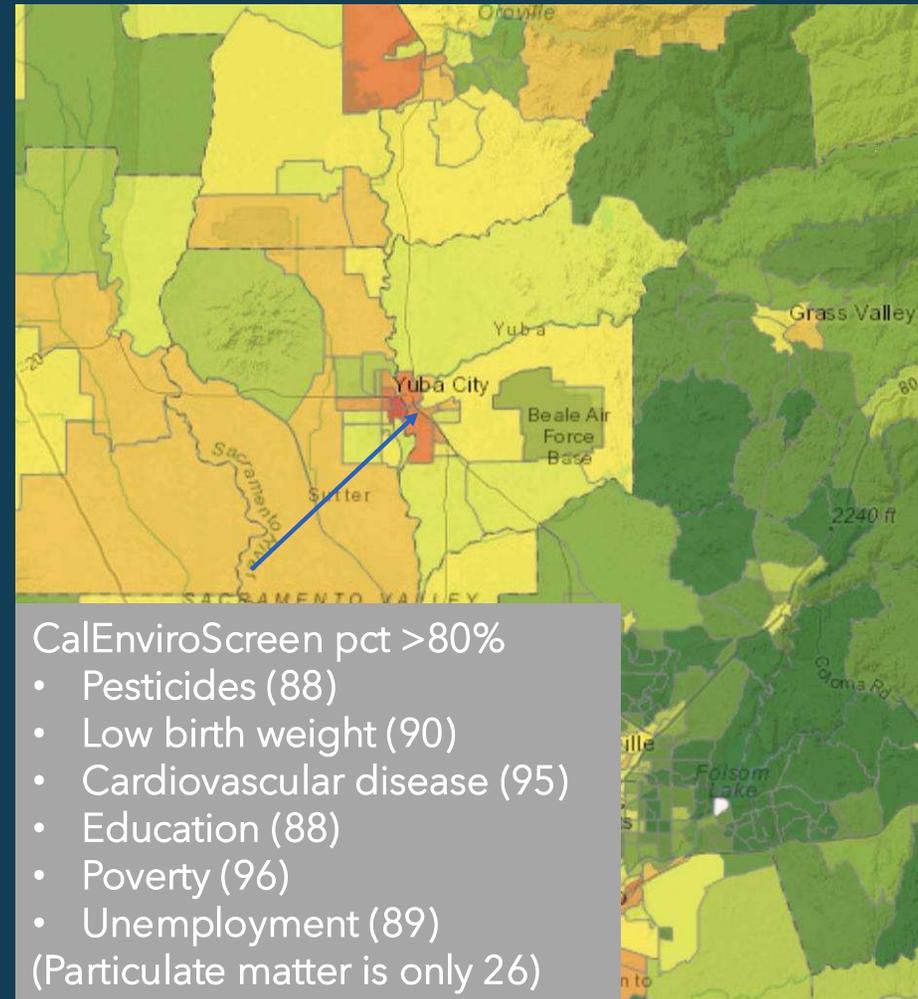
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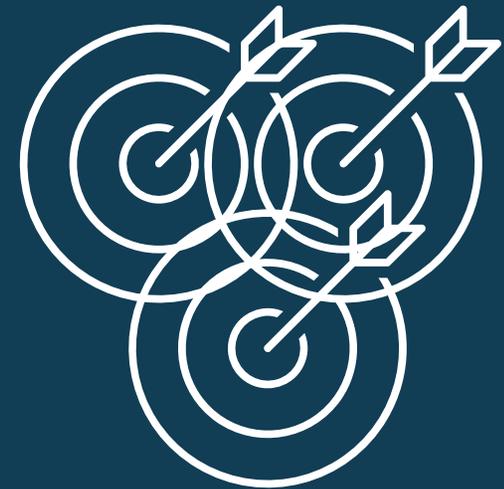
Our challenge:

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## CalEnviroScreen Scores Yuba City Area



Programs now come with multiple policy goals



Which goal do you maximize?

Or do you compromise and go for a little bit of everything?

# Programs now come with multiple policy goals

Illustrative Example: **Energy / Climate / Equity**

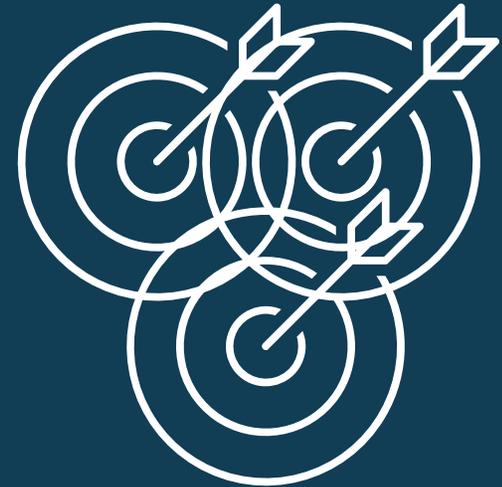
What we do: **Measure each objective**

What we can't / don't do well (yet):

- 1. Communicate the trade-offs**
- 2. Help programs optimize outcomes**

Our challenge:

- 1. Develop metrics that communicate the trade-offs**
- 2. Speak to policy makers when reporting to program administrators**



Which goal do you maximize?

Or do you compromise and go for a little bit of everything?

Programs are being used to contribute to complex policy objectives collectively



Is anyone considering whether the triathlon relay team will work well together?



Team float



Team ride



Team sprint

Programs are being used to contribute to complex policy objectives collectively

Illustrative Example: **Energy Affordability / Human Needs**

What we do: **Report on a program level (siloes)**

What we can't / don't do well:

- 1. Address interrelationships among energy and non-energy programs**
- 2. Help policy makers understand the collective picture**

Our challenge:

- 1. Investigate, measure the full human condition**
- 2. Overcome siloes in programs and studies**
- 3. Speak to policy makers when reporting to program administrators**

10/6/2021



Is anyone considering whether the triathlon relay team will work well together?



Team float



Team ride



Team sprint

# Complex energy objectives in a changed societal landscape



## THEN

Save energy,  
save money

## NOW

Save energy,  
save money

Electrify for  
the planet

Our device will  
manage your  
energy use for  
you

Use renewable  
energy for \_\_\_\_\_

- Self-sufficiency?
- Climate?
- Reliability?
- Savings?
- Energy independence?

Let the utility  
tap into your  
battery

Let the utility  
control your  
appliances

We want your  
data

Use AI

Wise energy use caught  
in the culture wars

Doing this for  
marginalized  
communities

Doing this for  
a strong  
America

# Complex energy objectives in a changed societal landscape

The issue: **The energy ask is no longer just “get CFLs” and “turn off the lights”**

**ri**

**THEN**

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**NOW**

Save energy, save money	Electrify for the planet	Our device will manage your energy use for you
Use renewable energy for _____ <ul style="list-style-type: none"><li>• Self-sufficiency?</li><li>• Climate?</li><li>• Reliability?</li><li>• Savings?</li><li>• Energy independence?</li></ul>	Let the utility tap into your battery	Let the utility control your appliances
	We want your data	Use AI
Doing this for marginalized communities	Wise energy use caught in the culture wars	Doing this for a strong America

# Complex energy objectives in a changed societal landscape

The issue: **The energy ask is no longer just “get CFLs” and “turn off the lights”**

The context: **Consider the reality that a plurality of voters checked a box that included *drill baby drill, energy dominance, no DEI***

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A possible solution: **Collaborative, big picture research to set a base understanding from which programs can operate and tailor**

**National, multi-funder, multi-provider, coordinated**

10/6/2025



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# Call to Action for Energy Evaluators

## Call to action

Take some time to think about the bigger picture issues and needs

If you are so inclined ... read the paper and reach out to discuss more



**What are your examples of industry challenges ... and opportunities?**



**How do you think we need to evolve?**



**How can we collaborate as a professional practice and as an industry?**



# Thank you for choosing our session!

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