Evaluation’s Role in Reducing GHG: Yes, it matters...A Lot!

Mike Rufo
Executive Consultant
Itron Inc.
Evaluation, It Cycles

- Historic booms and busts
- Shifting objectives and rationales
- Changing industry structures
- Changing paradigms and technologies

GHG Reduction Policies
CA GHG Goals & Policies (CA GHG Scoping Plan)

California’s Climate Policy Portfolio

- Double building efficiency
- 50% renewable power
- More clean, renewable fuels
- Cleaner zero or near-zero emission cars, trucks, and buses
- Walkable/Bikeable communities with transit
- Cleaner freight and goods movement
- Slash potent “super-pollutants” from dairies, landfills and refrigerants
- Cap emissions from transportation, industry, natural gas, and electricity
- Invest in communities to reduce emissions
CA GHG Goals & Policies (CA GHG Scoping Plan)
Evaluation and the Climate Change Challenge

- Cost of mitigation options vary widely
- GHG sources are silo’d, despite interdependencies
- Magnitude/pace of change could limit or expand evaluation
Evaluation Should Be Expanding…

Integrate GHG Evaluation

- Across GHG sources
- Utilizing new, integrated metrics
- Into new program and policy domains

DER Eval

EE Eval
For Example...

“Beneficial Electrification, Building Decarbonization

Behind-the-Meter Battery Storage

Alternative Transportation Fuels and Modes

Agricultural and Food Consumption Shifts

Cross source impacts & interdependencies

Embedded GHG/Lifecycle Analysis

More Effective Policies & Programs, Better, Faster GHG Reductions

Measures

Net impacts (Additionality)

Market Effects/Market Transformation

Incremental Costs

Indirect Costs & Benefits

Cost effectiveness (SCT, RVT, TRC, PAC)

More Effective Policies & Programs, Better, Faster GHG Reductions

$ per metric ton of carbon equivalent avoided