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# Analysis in support of Building Decarbonization

## **Energy Assessments Division (EAD)**

Ingrid Neumann, Ph.D. May 25, 2021



#### **Strategies Analyzed for AB 3232 Building Decarbonization Assessment**

2030 Statewide GHG Emissions: Using a Systemwide Emissions Baseline





### Next Steps... EAD Decarbonization Activities

- Expand on our technical capabilities for Energy Efficiency (EE) tracking and scenario projections/forecasts
  - incorporate new data such as from utility and other incentive programs to update historical savings as improve projections
  - add new EE programs savings projections
  - · incorporate updates to code and standards in savings projections
  - consider overlap in customer segments being targeted by different programs
  - consider market based activities that may result in EE savings that are not being captured elsewhere

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SB 350 tracking to	wards EE doublir	ig goal		
2015	2020	2025	2030	2035
		Additional Achievable Energy Efficiency (AAEE) load modifier to IEPR forecast		AAEE)



## Next Steps... EAD Decarbonization Activities

- Expand our technical capabilities for Electrification scenarios from a "what-if" analysis to projections
  - Further disaggregation of low-income single family and low-income multifamily as separate Residential sectors for analysis
  - incorporate new data such as from utility and other on ground incentive programs into our analysis
  - incorporate electrification resulting from local ordinances, as well as the proposed 2022 T24 updates encouraging electrification
  - incorporate more diversity in space heating/cooling load profiles
  - explore additional end-uses and fossil fuels for electric technology substitution
  - explore various contributions to building electrification as load modifiers to our IEPR forecast

AB 3232	"what-if scenarios"	3	
2020	2025	2030	2035
	& electrification load	I modifiers to IEPR	forecast

2015



- Continue growth in California economywide analytical capacity
  - new tools being developed in support of policy development towards California's mid-century climate goals
  - long term demand scenarios to complement the traditional 10-year gas and electricity demand forecast used for energy planning and procurement purposes

