

Doubling Down on Decarbonization Programs

Board of Directors
November 10, 2021

SILICON VALLEY CLEAN ENERGY

Objectives – seeking Board input

Feedback on **direction** – specifics still to be fleshed out

- Discuss SVCE program approach/focus
- Reactions to “double down” program ideas

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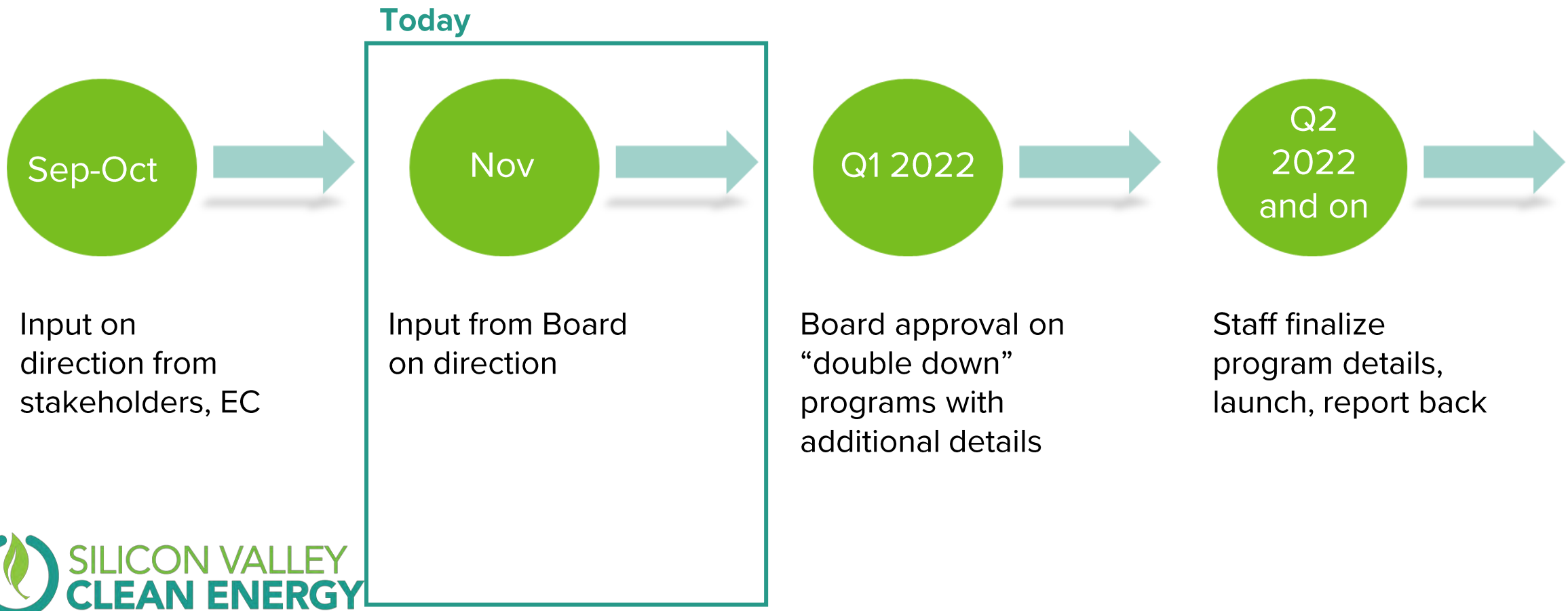
Where are we in the process?

Timeline



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Key takeaways on doubling down

Target barriers that SVCE (and member agencies) are best positioned to tackle

Program areas to prioritize:

- Multifamily tenant EV access
- Natural gas phase-out

Focus on **programs** that further create the foundation to enable new **policy** for big impacts

Programs are an emphasis in the 2021-22 strategic focus areas

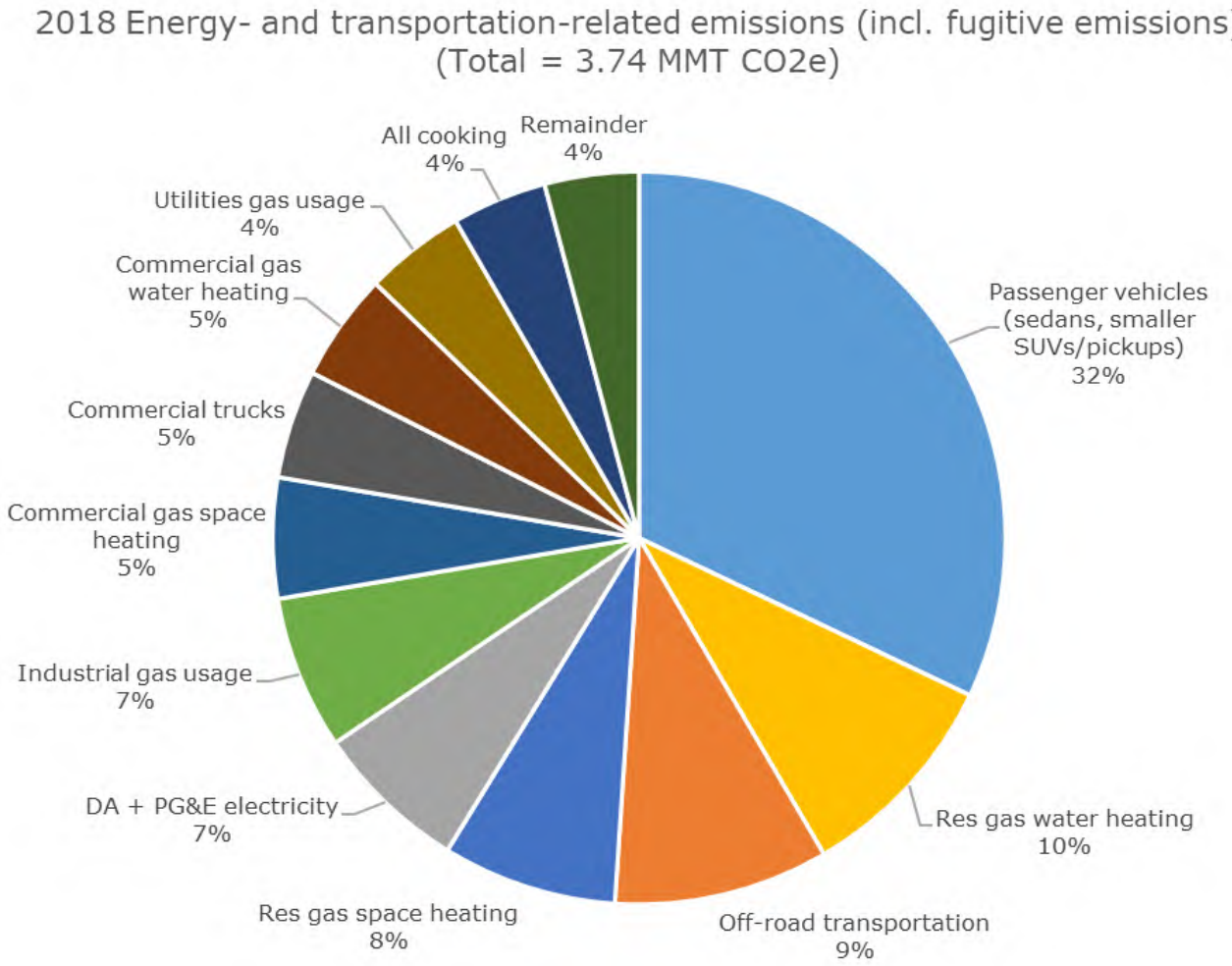
Support local agency work and leverage close ties to staff

1. Additional staffing
2. Bring PPAs into operations mode
3. Procurement and integration
4. Financial stability
5. Operations and cyber risk management
6. **Grow organization to expand efforts on climate change and decarb**

We will need to bend a lot of different carbon curves

Mix of shared and unique challenges across sources

SVCE's sector-specific Joint Action Plans identify top barriers



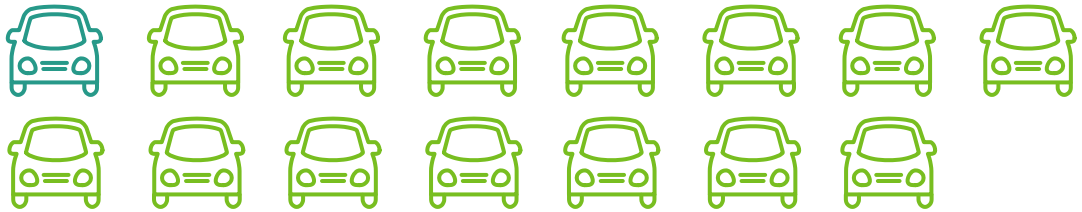
Fugitive emissions account for ~32% of total natural gas emissions

Major leaps in adoption are needed – residential EV example

On the order of $10B to buy EVs; $1B to install EVI

(total cost)

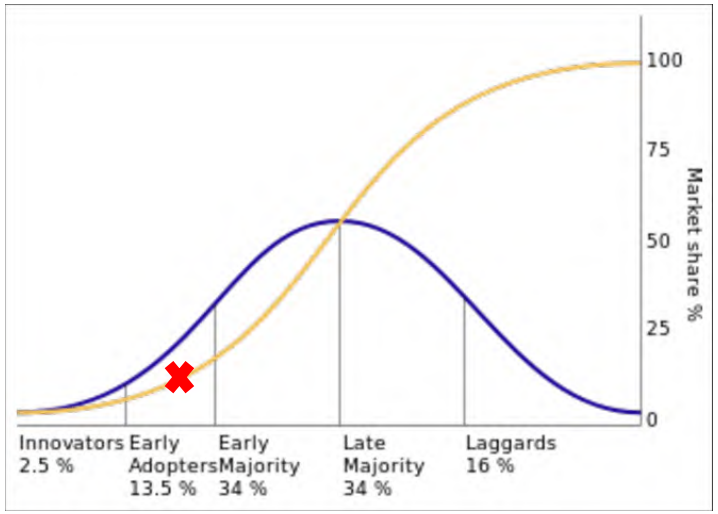
Some customers face bigger barriers



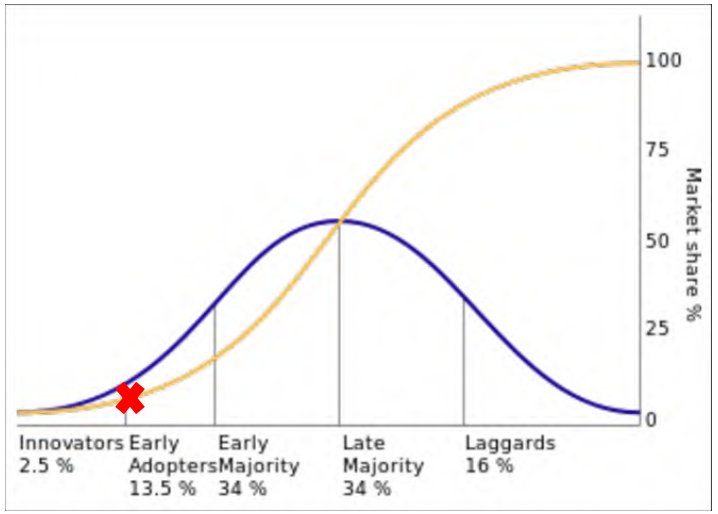
32,000 EVs today…

…and 440,000 conversions to go

Single-Family EVs: 8%



Multi-Family EVs: 3%



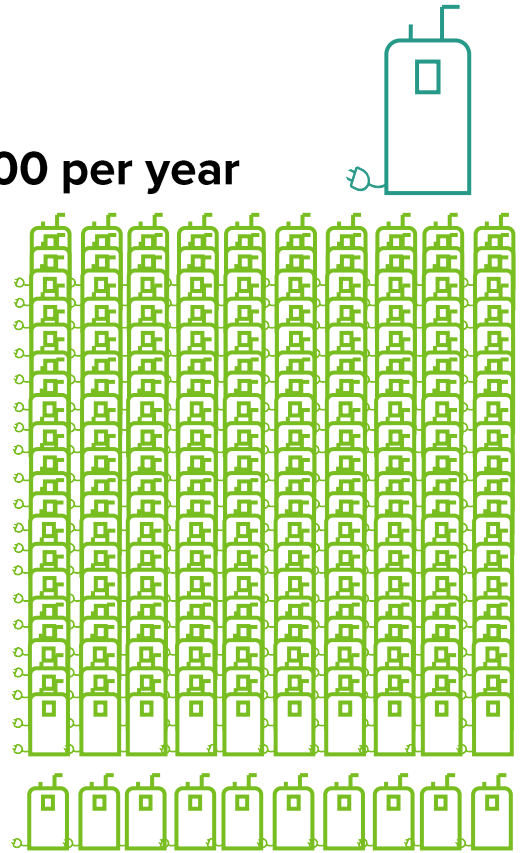
Major leaps in adoption are needed – residential heat pump water heater example

SVCE program very successful, compared to historical deployment

Similar scaling needed for other building technologies

SVCE HPWH program install rate: **100 per year**

To replace all gas water heaters by 2030: **21,000 per year**



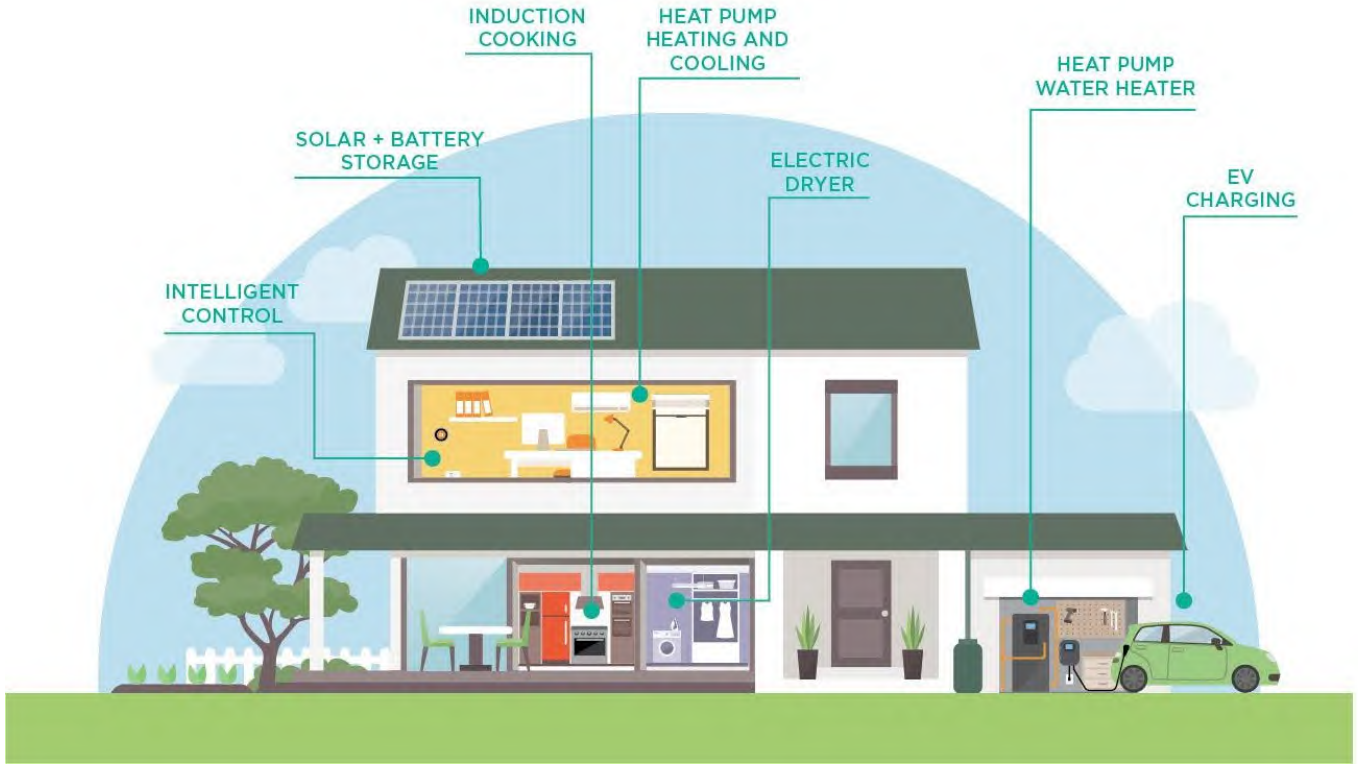
	Adoption rate, target 2030
Water Heating	21,000 per year
Space Conditioning	17,000 per year
Stovetops	11,000 per year
Dryers	5,000 per year
Panel Upgrades	13,000 per year

SVCE Program Approach

To succeed, policy/mandates need a support structure

- Incentives, rebates and financing lower customer bills and upfront costs
- Communication and marketing increase awareness
- Available and competitive products enable uptake
- Efficient permitting processes reduce time and costs
- Trained & available workforce with inclusive, high-quality jobs
- Pilot demonstrations prove viability and benefits





SVCE will “double down” on key programs with more resources and staff focus

Lay the **foundation** for rapid, smart adoption of policy

- Based on learnings from programs so far
- Additional programs budget may be available
- Key barriers and approaches already identified
- Focus on SVCE and city roles

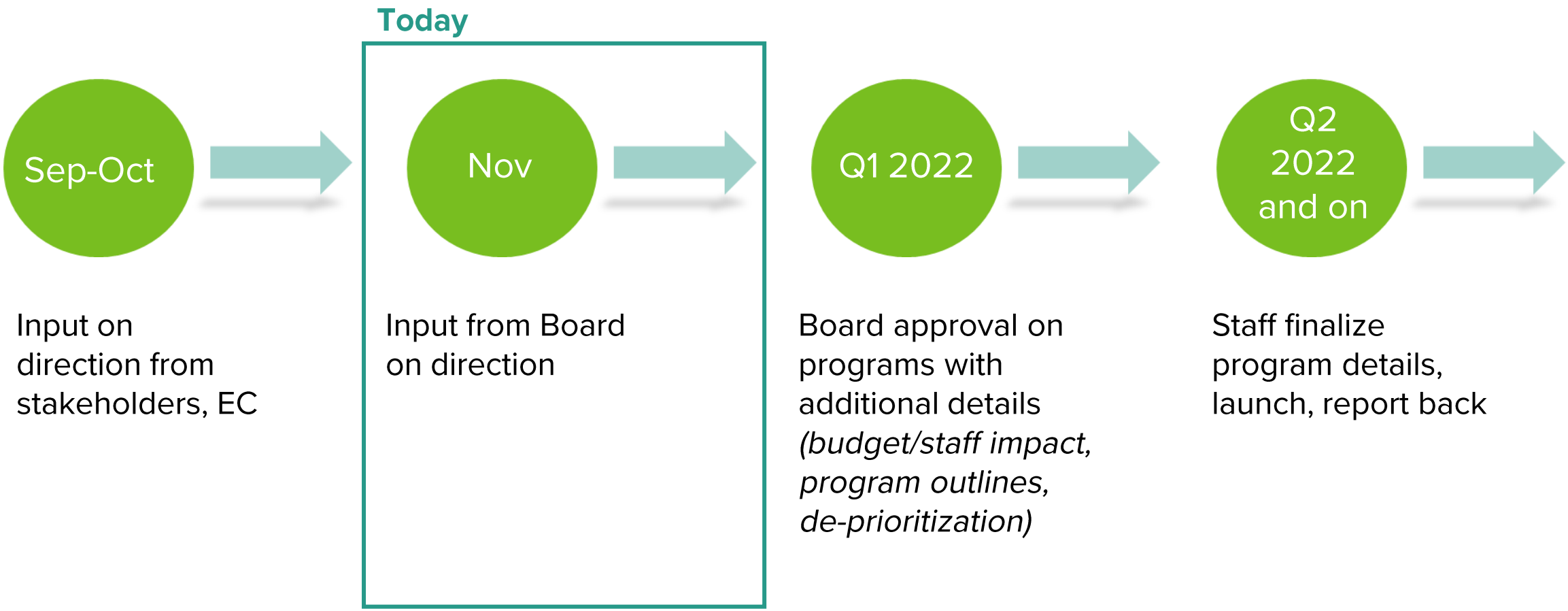
Proposed programs to expand

Focus efforts on two key areas, across a suite of programs

SVCE Programs	Multifamily EV Access	Natural Gas Phase-Out
• Multifamily EV Charging Assistance and Grants/Incentives		
• Whole-Building Electrification Grants/Incentives		
• Reach Codes 2.0 and pilot policy		
• Permitting Simplification		
• Accessible Financing		

Next steps

Timeline



Discussion

Appendix



Putting “double down” in context

What about programs not listed as priorities?

Double effort on:

- Multifamily EV charging assistance and grants/incentives
- Whole-building electrification grants/incentives
- Reach codes 2.0 and pilot policy
- Permitting simplification
- Accessible financing

De-prioritize:

- Limit # of small innovation pilots
- Fleet electrification grants
- HPWH-only incentive program

Continue the rest of programs at planned levels:

- Municipal resilience grants
- Online contractor training
- CALeVIP EV charger incentives
- eHub
- Virtual power plant programs
- and others…