

California Statewide Gas Emerging Technologies

Technology Priority Map (TPM) Update 2025



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Agenda

- TPM Purpose
- TPM Organization
 - Simplify and Remove low value columns
- TPM Updates
 - Define prioritization for new and existing technologies
 - Confirm which items from ideation list will be in TPM
 - Add in new technologies for 2025

TPM – Purpose

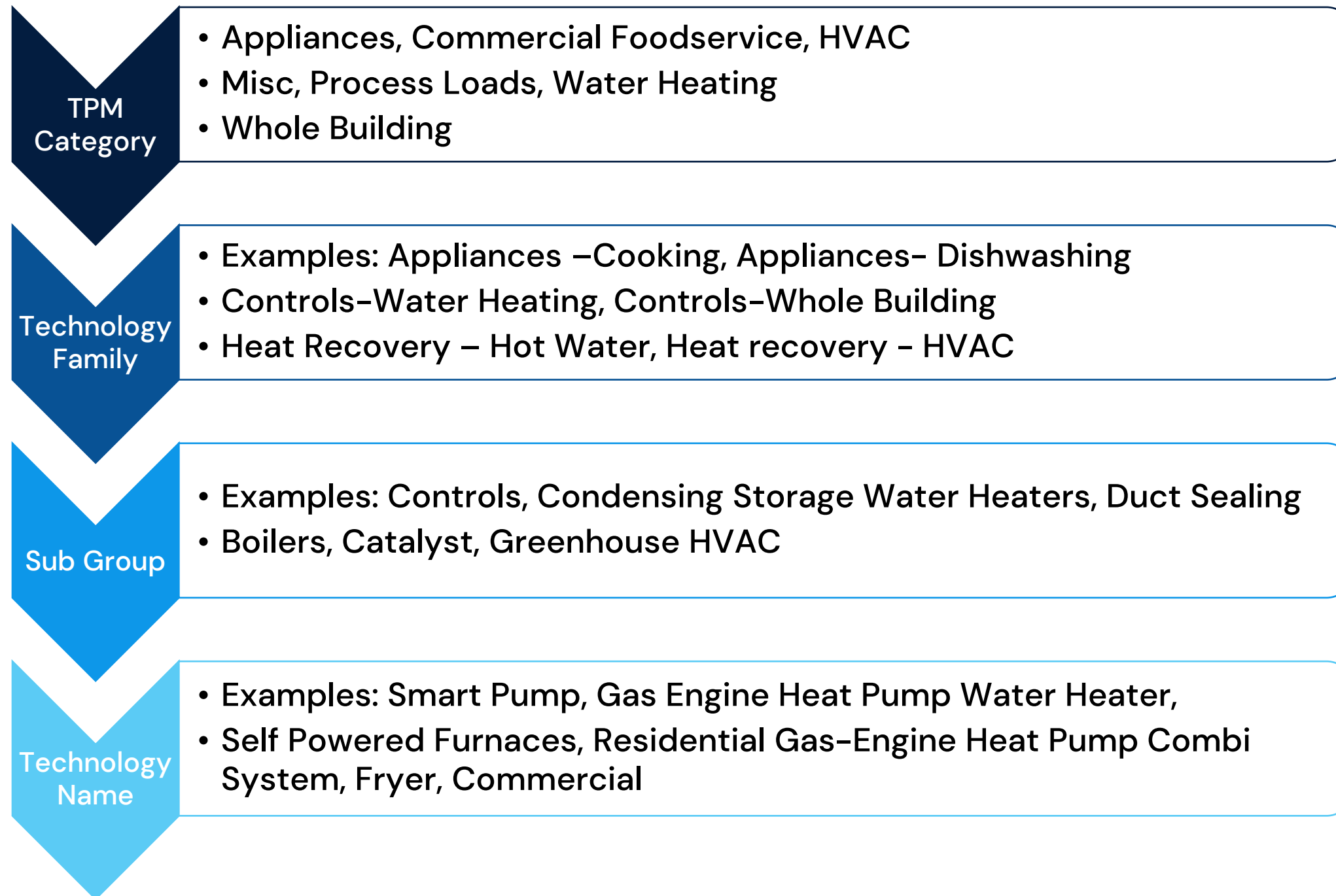
- Technology Priority Maps (TPMs) are used as part of the “Technology Screening” process in Gas Emerging Technologies
- Identify high priority technology needs
- Drive project ideation
- TPMs are living documents
- Support measure package development and potential pilots
- Maintain alignment with Ideation List, Research Plan, and ET project status
- Updated at least annually





TPM Organization

TPM – Organization



TPM Organization– Simplify Columns

2024 Columns

TPM Category Priority	Technology Family	Sub Group	Sector (s)	Technology Name	Technology Study Status	Description	Measure Package ID	Current Status	ET Priority (High/Medium/Low)	Technology Readiness Level (TRL)	Product Readiness	Market Readiness	Program Readiness	Possible Next Steps	Key Barriers	Stakeholder Interest	Comments (with respect to emerging opportunities)	Other Opportunities	Potential High-Level ET Role(s)	Duration to Level 5 Program Readiness	Non-Energy Benefits and Prioritization Factors	New or Retrofit Applications	Potential Impact (next 10 Years)	Potential impact notes	Public References
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2025 Columns

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TPM Updates

TPM Update – 2025

- Process Updates:
 - Updated Ideation List used as a direct input into TPM updates
 - New technologies added using:
 1. Ideation list for new technologies
 2. ET Project → Findings → TPM Entry + References
- Ideation List
 - Projects from ideation list were added/ modified via color coordination

Ideation Color	Meaning	TPM Action
 Dark Green	Completed ET project	Included in TPM, usually Low priority unless ongoing relevance
 Light Green	Active / in-progress ET project	Included, usually High priority
 Yellow	Strong candidate idea	Included if technology-focused; usually Medium/High
 White/ Red	Early concept or rejected	Not added into TPM

TPM Update– 2025– New Technologies added

- Gas Absorption Heat Pumps (GAHP) – Lab & Field Testing
 - Consolidated multiple ideation items; includes hydrogen-blend testing and NEC/VNEC units.
- Hydrogen Ultra-Low NOx Burners
 - High-priority combustion technology to support decarbonization and reduced emissions.
- Smart Steam Traps
 - Included as a high-priority industrial/process technology due to strong savings potential.
- GAHP for Pool Heating Applications
 - New addition under Miscellaneous; rising program and customer interest.
- Sizing & Technical Tools (e.g., TSB Tool, Pool Dehumidification Tool)
 - High-priority analytical tools supporting program design and technology deployment.



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