

California Statewide Gas Emerging Technologies

Technology Priority Map (TPM) Update 2026

Alyza Kashmiri– Lincus, Inc.
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Agenda

- TPM Purpose
- TPM Organization
  - Simplify columns
  - Adoption Readiness Level (ARL) in place of Program Readiness Level
- TPM Updates
  - Define prioritization for new and existing technologies
  - Confirm which items from ideation list will be in TPM
  - Add in new technologies for 2026

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 and ET project status
- Updated annually



TPM Organization

TPM – Organization

TPM Category

- Appliances, Commercial Foodservice, HVAC
- Misc, Process Loads, Water Heating
- Whole Building

Technology Family

- Examples: Appliances –Cooking, Appliances- Dishwashing
- Controls-Water Heating, Controls-Whole Building
- Heat Recovery – Hot Water, Heat recovery - HVAC

Sub Group

- Examples: Controls, Condensing Storage Water Heaters, Duct Sealing
- Boilers, Catalyst, Greenhouse HVAC

Technology Name

- Examples: Smart Pump, Gas Engine Heat Pump Water Heater,
- Self Powered Furnaces, Residential Gas-Engine Heat Pump Combi System, Fryer, Commercial

TPM Organization- Simplify Columns

2025 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)	Program Readiness Level	Possible Next Steps	Key Barriers	Comments	New or Retrofit Applications	Public References

2026 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)	Adoption Readiness Level (ARL)	Possible Next Steps	Key Barriers	Comments	New or Retrofit Applications	Public References

TPM Updates

TPM Update – 2026

- Process Updates:
  - Updated Ideation List reviewed along with TPM to identify new and updated technology opportunities
  - 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
Maroon	Rejected due to low TRL	Not added into TPM

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TPM Update- 2026- New & Updates Technologies added

- Gas Absorption Heat Pump (GAHP) Applications
  - Includes GAHP design guidance and greenhouse heating applications to support technology assessment and future deployment.
- Hybrid Chillers and Combi Units
  - Integrated heating and cooling systems offering operational flexibility, redundancy, and potential peak-load management benefits.
- HVAC Controls and Optimization
  - Includes Kenergy AI HVAC optimization, right-sized furnaces, and radiant heating controls to improve system operation and efficiency.
- Heat Recovery and Agricultural HVAC
  - Includes swimming-pool heat recovery, ground-to-air heat transfer, and greenhouse environmental-control technologies.
- Water Heating Analysis and Technical Tools
  - Includes spa-heating analysis and DHW sizing assessments to support system design and future research opportunities.

SoCalGas

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Get in touch with us:
Anoushka Grossheim

Program Manager
Anoushka.Grossheim@icf.com

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