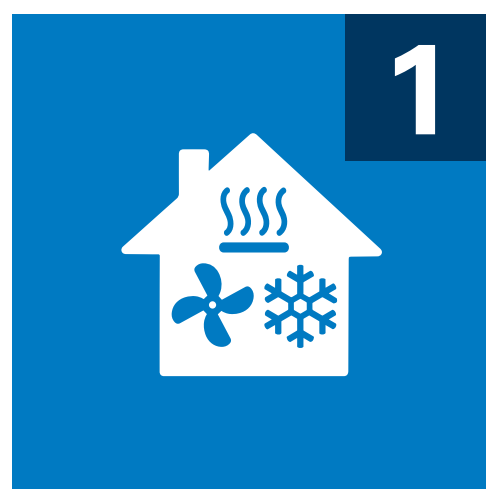


Getting smart

Smart home trends and codes

Learn what smart home technologies are in high demand and which building codes apply.



1

HVAC and climate control systems

[Energy efficiency](#) and the ability to maintain comfortable humidity levels are key benefits of owning a smart home.

- **2019 California Title 24**
Read about [duct testing](#), [HVAC sizing](#) and [thermostats](#)
- **2021 IECC** Find out more about [energy efficiency](#)
- **ENERGY STAR®** Stay up to date on [energy-efficiency certifications](#)



2

Programmable lighting and window coverings

Automation is key for home buyers wanting to adjust these features at set times.

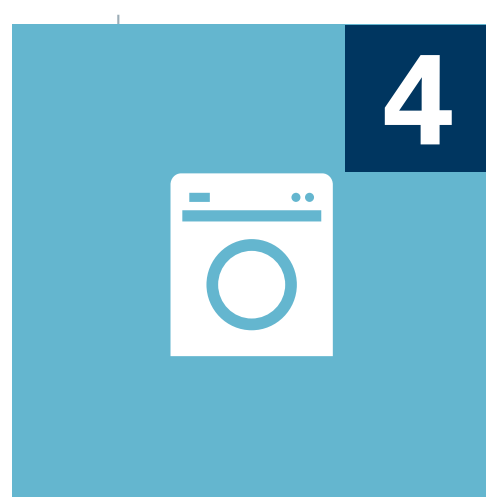
- **2019 California Title 24**
Read about major changes to: Light source markings and [JA8 performance requirements](#)
- New exterior and interior [light source categories and compliances](#)
- Interior switching devices and controls [language clarification](#)



3

Security and surveillance

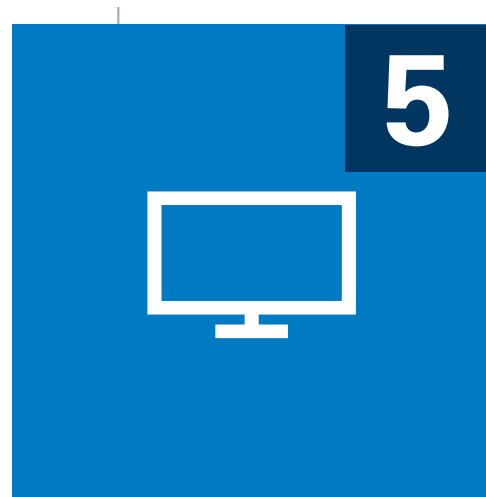
For most homeowners, [security is the top benefit](#) for owning a smart home. Building codes for cybersecurity may be developed soon to address smart locks, garage door openers and video doorbells.



4

Kitchen and laundry appliances

Smart appliances adhere to [California Title 20](#), [ENERGY STAR ratings](#) and [UL®](#) tests for product interoperability and cybersecurity.



5

Entertainment systems

Building codes do not apply to smart TVs, smart speakers and gaming consoles. However, [UL](#) tests these devices so they connect seamlessly, perform as featured and function safely.



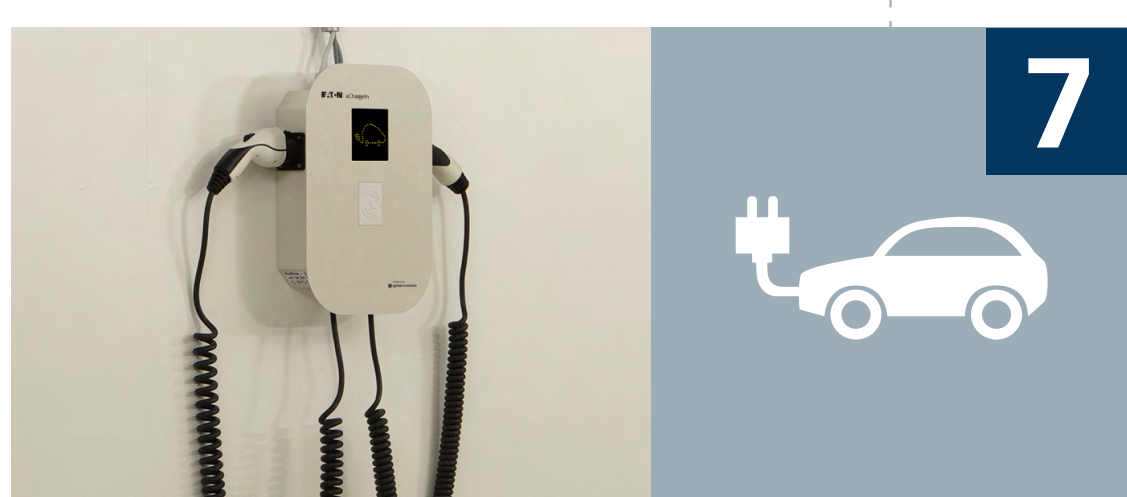
6

Renewable energy

A new [solar roof](#) needs distribution and storage components that operate in parallel with the grid. This requires safe connections of PV equipment to electrical systems.



- **2020 NEC® Article 690**
Learn how to [safely install various PV components](#)
- **2020 NEC Article 691**
Get guidance for [installing large-scale PV electric supply stations](#)
- **2020 NEC Article 705**
Make [safe interconnections](#) of grid and off-grid equipment
- **2020 NEC Article 706** Know where [energy storage systems](#) are located and used



7

Electric vehicle (EV) charging systems

California requires all new home construction to be prepared for [Level 2](#) vehicle chargers.

- **2019 California Title 24** Install a [service panel and conduit](#) that can support a 32-A Level 2 charging station
- **2020 NEC Article 625** Make sure the Level 2 charger meets several [safety requirements](#)

Check with your local utility and permitting authorities for approvals before building.



Learn how our **Home as a Grid** approach helps you safely and securely integrate renewable energy sources, reduce energy costs and support a low-carbon energy future.

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See how at Eaton.com/EnergyTransition

We're applying our Everything as a Grid approach to:

