

**ORDINANCE NO. C-2022-02**

**ORDINANCE AMENDING THE HALF MOON BAY MUNICIPAL CODE TO ADD A NEW CHAPTER  
14.06 TO TITLE 14 ENTITLED "ELECTRIFICATION OF BUILDINGS"**

THE COUNCIL OF THE CITY OF HALF MOON BAY DOES ORDAIN AS FOLLOWS:

**Section 1. Findings.** The City Council of the City of Half Moon Bay hereby adds a new Chapter 14.06 ("Electrification of Buildings") to Title 14 of the Half Moon Bay Municipal Code. The City Council finds and declares as follows:

(a) Health and Safety Code Section 18941.5, with reference to Section 17958.7, allows for more restrictive local amendments to the current California Building Standards Code ("Building Codes") that are reasonably necessary because of local climatic, geological, or topographical conditions.

(b) The Half Moon Bay City Council expressly declares that these proposed amendments to the Building Codes are reasonably necessary because of local climatic, topographical, and geological conditions, and hereby adopts the findings of reasonable necessity as set forth in Attachment A accompanying this ordinance.

(c) Express findings that these modifications to the Building Codes are reasonably necessary are hereby made and will be filed with the California Building Standards Commission in accordance with California Health and Safety Code Section 17958.7 before this ordinance takes effect.

(d) Failure to address and significantly reduce greenhouse gas emissions could result in rises in sea level that could put at risk Half Moon Bay homes and businesses, public facilities, and portions of major local and regional transportation infrastructure.

(e) Due to changes in rainfall patterns expected with climate change, the City of Half Moon Bay is likely to be subject to more severe weather events, including droughts as well as more intense storms that increase the risks of, and have actually resulted in, extreme wildfires, erosion, overland local flooding and landslides.

(f) It is expected that climate change will result in further severe and frequent extreme heat events, intensifying local heat islands and putting vulnerable populations at health risk, which has already occurred at unprecedented levels with sea level rise and widespread wildfires in the area.

(g) In 2016, the State of California enacted Senate Bill (SB) 32 to require greenhouse gas emissions to be reduced to 40 percent below 1990 levels by 2030.

(h) In 2018, Governor Brown signed Executive Order (EO) B-55-18 which calls for California to achieve carbon neutrality as soon as possible, and no later than 2045.

(i) The City of Half Moon Bay is preparing its Climate Action and Adaptation Plan to, at minimum meet State emissions goals established in SB32 and EO B-55-18.

(j) Based upon the latest available data, 48 percent of Half Moon Bay's local greenhouse gas emissions came from buildings, with 80 percent of that total coming from onsite Fuel Gas combustion.

(k) The City Council has identified electrifying buildings as a necessary strategy to achieve the City's 2030 and 2045 greenhouse gas reduction targets.

(l) Half Moon Bay primarily receives electricity from Peninsula Clean Energy, whose electricity portfolio is 100% carbon free as of January 2021, prioritizing local renewable generation and local green jobs development.

(m) Onsite Fuel Gas combustion is known to lead to elevated levels of harmful indoor air pollutants that disproportionately affect frontline communities, including people of color, immigrants, indigenous communities, low-income people, those with disabilities, and the unhoused.

(n) The indoor air pollutants that arise from onsite Fuel Gas combustion have been shown to contribute to respiratory ailments such as asthma, such that children living in homes with gas cooking are 42 percent more likely to have asthma.

(o) Fuel Gas infrastructure and pipelines contribute to the risk of fires and explosions such as the 2010 San Bruno pipeline explosion, with the risk magnified in cases of major earthquakes.

(p) Climate disruption is being fueled by the burning of fossil fuels, including "natural gas," oil, and coal, and the disruption is already having devastating impacts on those who can least afford it and are least responsible for the problem.

(q) Requiring all newly constructed buildings to be all-electric will create the groundwork for clean energy technologies to proliferate and become cost-competitive and provide the impetus for workforce development in clean energy technologies and building electrification retrofits.

(r) Highly efficient buildings enhance Half Moon Bay's public health, welfare, and resiliency by promoting environmental and economic health and safety through the design, construction, maintenance, and operation of buildings.

(s) It is reasonably necessary to require buildings to produce renewable, low-carbon electricity and to reduce energy consumption through efficient design in order to reduce the

effects of climate change (which have already been experienced locally through sea level rise and wildfires), reduce regional pollution, improve overall safety, and improve resilience to climate change.

(t) Costs for all-electric new construction have been shown to be on par with or less than those for mixed-fuel construction in the Half Moon Bay climate zone.

(u) On February 2, 2021, the City Council conducted a study session on Building Electrification and directed staff to prepare a draft ordinance for consideration by the community and City Council.

(v) The requirements specified in this Ordinance were the subject of stakeholder outreach from June through September 2021, including public meetings and individual stakeholder interviews.

(w) On September 25 and October 5, 2021, the City Council conducted additional study sessions to provide policy guidance on the draft Building Electrification ordinance.

(x) Half Moon Bay can help lead the climate change movement by implementing climate solutions to benefit all people in our community, particularly those that have been disadvantaged by air pollution and other environmental harms in our most vulnerable communities.

**Section 2. Addition of Chapter 14.06 to Title 14 of the HALF MOON BAY Municipal Code.** The Half Moon Bay Municipal Code is hereby amended with the addition of Chapter 14.06, “Electrification of Buildings,” which is adopted as set forth in Attachment B. Attachment B of this Ordinance is incorporated herein in its entirety.

**Section 3. Severability.** If any section, sentence, clause, or phrase of this Ordinance is for any reason held to be invalid or unconstitutional by a decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance. The City Council hereby declares that it would have passed this Ordinance and adopted this Ordinance and each section, sentence, clause, or phrase thereof, irrespective of the fact that any one or more section, subsections, sentences, clauses or phrases be declared invalid or unconstitutional.

**Section 4. California Environmental Quality Act.** The City Council finds that this Ordinance is exempt from CEQA under CEQA Guidelines section 15061(b)(3) on the grounds that the standards contained therein are more stringent than those set forth in the State Building Standards Code, and as a result there are no reasonably foreseeable adverse impacts or possibility that the activity in question may have a significant effect on the environment. Given Half Moon Bay’s clean energy sources, this Ordinance’s provisions requiring a shift from fuel gas to electricity will not have any significant effect on the environment. In particular, all Half Moon Bay energy customers are automatically enrolled in the Peninsula Clean Energy (PCE) EcoPlus

Service, which provides 100% Carbon Free Electricity. PCE generates electricity from 50% renewable sources, and all customers may opt into PCE's Eco100 tier, which generates energy from 100% renewable sources. There is no reasonable possibility that increasing the City's reliance on these clean and renewable energy sources could have a significant effect on the environment. The Ordinance is also exempt from CEQA under CEQA Guidelines section 15308, because it is a regulatory action for the protection of the environment. The foregoing determination is made by the City Council in its independent judgment.

**Section 5. Publication.** The City Clerk of the City of Half Moon Bay is hereby directed to publish this Ordinance, or the title hereof as a summary, pursuant to Government Code Section 36933, once within fifteen (15) days after its passage in the Half Moon Bay Review, a newspaper of general circulation published in the City of Half Moon Bay.


**Section 6. Effective date.** This Ordinance shall take effect and be in force on the thirtieth (30th) day from and after its final passage.


**INTRODUCED** at a regular meeting of the City Council of the City of Half Moon Bay, California, held on the 1st day of February, 2022.

**ADOPTED** at a regular meeting of the City Council of the City of Half Moon Bay, California, held on the 15<sup>th</sup> day of February, 2022, by the following vote:

Ayes, Councilmembers:	Brownstone, Jimenez, Penrose, Ruddock
Noes, Councilmembers:	Rarback
Absent, Councilmembers:	
Abstain, Councilmembers:	

ATTEST:

  
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Jessica Blair, City Clerk

  
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Debbie Ruddock, Mayor

## **Attachment A**

### **Section 1. Findings:** The City Council hereby finds the following facts to be true:

- A. Scientific evidence has established that natural gas combustion, procurement and transportation produce significant greenhouse gas emissions that contribute to global warming and climate change;
- B. On June 18<sup>th</sup>, 2019, the Half Moon Bay City Council adopted a climate emergency declaration, calling for a mobilization effort to end citywide greenhouse gas emissions as quickly as possible;
- C. The City of Half Moon Bay is preparing its Climate Action and Adaptation Plan to, at minimum meet State emissions goals established in SB32 and EO B-55-18; and
- D. The additions and modifications to the California Building Standards Code listed below are reasonably necessary because of the following local climatic, geologic, and topographical conditions:
  1. The City limits of Half Moon Bay includes and borders areas that are considered by the State Fire Hazard Severity zone mapping system to be of High and Very High fire hazard. As such, the City is extremely vulnerable to wildfires. Human activities releasing greenhouse gas into the atmosphere cause increases in worldwide average temperature, drought conditions, vegetative fuel, and length of fire seasons, all of which have the potential to affect Half Moon Bay;
  2. Half Moon Bay is within the Coastside Fire Protection District, which is located within a high activity seismic Zone 4. The San Andreas Fault, as well as faults that are not fully charted, are within immediate boundaries of the District. The seismic geological conditions present a very severe potential for multiple fires, major breakage of water mains, major breakage of natural gas mains, multiple electrical power failures, multiple collapsed structures, large number of calls for emergency medical aid, all of which may occur simultaneously during a seismic event;
  3. In the event of a natural disaster such as earthquake or fire, the natural gas infrastructure in and around the City of Half Moon Bay presents risks to the life and safety of residents and first responders. Moreover, the electric grid system can be brought back online more swiftly than the natural gas pipeline when the community is recovering from such an event;
  4. Half Moon Bay is situated along the Pacific Coastline and the potential impacts of sea level rise are anticipated to increase the City's exposure to shoreline hazards. Human activities releasing greenhouse gas into the atmosphere contribute to sea level rise. Rising sea levels are likely to affect the amount of area in the City at risk of coastal flooding, the rate of erosion along the shoreline and bluffs, the area of the City's tsunami inundation zone, and potential seawater intrusion into riparian systems and groundwater supplies. Loss of shoreline due to rising waters may also

threaten the stability of coastal habitats, recreation areas, public access, and infrastructure; and

5. It is reasonably necessary to require buildings to produce renewable, low-carbon electricity and to reduce energy consumption through efficient design in order to reduce the effects of climate change (which have already been experienced locally through sea level rise and wildfires), reduce regional pollution, improve overall safety, and improve resilience to climate change.

Based on the above facts, the City Council finds that Half Moon Bay's local, geological, topographical, and climatic conditions require amendments to the California Building Standards Code to establish more restrictive conditions to reduce greenhouse gas emissions in new buildings, thereby reducing the environmental and health hazards produced by the consumption and transportation of natural gas as summarized in the matrix included hereto in Section 2.

**Section 2. Matrix of Justifications.**

<b>Matrix of Justifications for Electrification of Buildings (Half Moon Bay Municipal Code Chapter 14.06)</b>		
<b>Half Moon Bay Municipal Code Section(s)</b>	<b>Title</b>	<b>Justification (see Section 1)</b>
14.06.030	Requirement for All-Electric Newly Constructed Buildings	1-5
14.06.040	Prohibition on Conversion to Mixed-Fuel Buildings	1-5
14.06.050	Termination of Gas Services	1-5

## **Attachment B**

Chapter 14.06 is hereby added to Title 14 of the Half Moon Bay Municipal Code to read as follows:

### **Chapter 14.06 ELECTRIFICATION OF BUILDINGS**

#### **Sections**

#### **14.06.010—Title**

#### **14.06.020—Definitions**

#### **14.06.030—Requirement for All-Electric Newly Constructed Buildings**

#### **14.06.040—Prohibition on Conversion to Mixed-Fuel Buildings**

#### **14.06.050—Termination of Gas Service**

#### **14.06.060—Exceptions**

#### **14.06.070—Periodic Review**

#### **14.06.080—Violations**

#### **14.06.010 Title**

This chapter shall be known as “Electrification of Buildings.”

#### **14.06.020 Definitions**

- A. “Accessory Dwelling Unit” shall have the same meaning as specified in Section 18.02.040 of the Half Moon Bay Municipal Code.
- B. “All-Electric Building” or “All-Electric Design” is a building or building design that uses a permanent supply of electricity as the source of energy for all space heating, water heating (including pools and spas), cooking appliances, and clothes drying appliances, and has no Fuel Gas plumbing installed in the building.
- C. “All-Electric Conversion” shall mean the conversion of a Mixed-Fuel building to a building that uses a permanent supply of electricity as the source of energy for all space heating, water heating (including pools and spas), decorative uses and lighting, cooking appliances, clothes drying appliances, and in which any previously existing Fuel Gas plumbing connection is capped or decommissioned.
- D. “Building” shall have the same meaning as specified in Section 18.02.040 of the Half Moon Bay Municipal Code. Notwithstanding that definition, for purposes of this ordinance, “Building” does not include mobile homes or manufactured homes, pursuant to Health & Safety Code §§ 18015, 18030.5, and 18300(a).

- E. "Commercial Greenhouse" shall have the same meaning as specified in Section 18.02.040 of the Half Moon Bay Municipal Code.
- F. "Dwelling Unit" shall have the same meaning as specified in Section 18.02.040 of the Half Moon Bay Municipal Code.
- G. "Electrically Pre-Wire" shall mean to install necessary electrical components to permit future conversion to electric appliances. The required Pre-Wiring measures shall include the following:
  - a. A dedicated circuit, phased appropriately, for each appliance, with a minimum amperage requirement for a comparable electric appliance (see manufacturer's recommendations) with an electrical receptacle or junction box that is connected to the electric panel with conductors of adequate capacity, extending to within 3 feet of the appliance and accessible with no obstructions. Appropriately sized conduit may be installed in lieu of conductors;
  - b. Both end of the conductor or conduit shall be labeled with the words "For Future Electric appliance" and be electrically isolated;
  - c. A circuit breaker shall be installed in the electrical panel for the branch circuit and labeled for each circuit (i.e., "For Future Electric Range") and;
  - d. All electrical components, including conductors, receptacles, junction boxes, or blank covers related to this section shall be installed in accordance with the California Electric Code.
- H. "Fuel Gas" shall be as defined in the California Plumbing Code Section 208.0 and the California Mechanical Code Section 208.0.
- I. "Junior Accessory Dwelling Unit" means a unit as defined in California Government Code Section 65852.22.
- J. "Mixed-Fuel Building" means a building that uses Fuel Gas as fuel for space heating or cooling, exterior heating, decorative uses or lighting, water heating (including pools and spas), cooking appliances, clothes drying appliances, or onsite generation of electricity (except where primarily fueled by onsite digestion of organic material).
- K. "Mixed-Use Building" shall have the same meaning as specified for "Mixed Use" in Section 18.02.040 of the Half Moon Bay Municipal Code.
- L. "Newly Constructed Building" is a building that has never before been used or occupied for any purpose.



M. “Non-Residential Building” shall have the same meaning as specified in the California Energy Code Section 100.1.

N. “Residential Building” means a building in which sleeping accommodation is provided for normal residential purposes and includes one or more family dwellings, including private garages of such buildings. For purposes of this ordinance, “Residential Building” does not include mobile homes or manufactured homes, pursuant to Health & Safety Code §§ 18015, 18030.5, and 18300(a).

#### **14.06.030 Requirement for All-Electric Newly Constructed Buildings**

Newly Constructed Buildings shall meet the definition of an All-Electric Building and shall be designed using an All-Electric Design.

##### **Exceptions:**

1. Development projects for which all building and related permits have been issued and remain valid prior to January 1, 2023. These projects may be constructed as Mixed-Fuel Buildings; however, they must be Electrically Pre-Wired for future electric appliances in any location where a Fuel Gas appliance is installed.
2. New and existing Accessory Dwelling Units and Junior Accessory Dwelling Units that are attached or wholly within an existing Mixed-Fuel Residential Building may utilize Fuel Gas appliances.
3. This section shall not apply to development projects that have obtained vested rights pursuant to state law prior to the effective date of this Ordinance.

#### **14.06.040 Prohibition on Conversion to Mixed-Fuel Buildings**

- A. Residential Buildings. No existing All-Electric Building may be converted into a Mixed-Fuel Building on or after the effective date of this Chapter.
- B. Non-Residential and Mixed-use Buildings. No existing All-Electric Building may be converted into a Mixed-Fuel Building on or after January 1, 2045.

#### **14.06.050 Termination of Gas Service**

No later than January 1, 2045, all buildings within Half Moon Bay shall be All-Electric Buildings or All-Electric Conversions and all Fuel Gas plumbing lines shall be capped and/or decommissioned.

#### **14.06.060 Exemptions**

- A. Commercial Greenhouses shall be exempt from this Chapter until January 1, 2045.
- B. Wastewater Treatment Facilities shall be exempt from this Chapter until January 1, 2045.

- C. Fuel gas generators shall be exempt from the Chapter until January 1, 2045.
- D. The requirements of this Chapter shall not apply to the use of portable propane appliances for use outside of the building envelope, such as outdoor cooking and outdoor heating appliances.

#### **14.06.100 Infeasibility Waiver**

- A. Waiver. If an applicant for a permit for a Newly Constructed Building believes that physical or technical circumstances exist that make it technically or physically infeasible to meet the requirements of this Chapter in part or in whole, the applicant may request an infeasibility waiver as set forth below. Financial considerations alone shall not be a sufficient basis for technical or physical infeasibility. In applying for an exemption, the burden is on the Applicant to show infeasibility.
- B. Application Process. An applicant may apply for an infeasibility waiver by submitting a written letter of justification for an infeasibility waiver as early as practicable. Where the project involves issuance of a Coastal Development Permit (CDP) the waiver request shall be filed concurrently and considered concurrently with the CDP. The applicant shall indicate in their letter of justification the maximum threshold of compliance he or she believes is feasible for the project and the circumstances that make it infeasible to fully comply with this Chapter. Circumstances that constitute infeasibility include, but are not limited to the following:
  - 1. There is conflict with another City regulation, such as those requiring historic preservation;
  - 2. There is a lack of commercially available materials, appliances, and/or technologies to comply with the requirements of this Chapter;
  - 3. Applying the requirements of this Chapter would effectuate an unconstitutional interference.
- C. Review of Exemption. Where the City Manager or his/her designee determines that it is infeasible for the applicant to fully meet the requirements of this Chapter based on the information provided, the City Manager or his/her designee shall determine the maximum feasible threshold of compliance reasonably achievable for the project and condition the approval accordingly. The decision of the City Manager or his/her designee shall be provided to the applicant in writing. If an exemption is granted but the City Manager or his/her designee determines that the applicant can still achieve a certain threshold of compliance, the applicant shall be required to comply with this Chapter in all other respects and shall be required to achieve, in accordance with this Chapter, the

threshold of compliance determined to be achievable by the City Manager or his/her designee.

- D. Final Determination. If the City Manager or his/her designee determines that it is reasonably possible for the applicant to fully meet the requirements of this Chapter, the request for an exemption shall be denied and the City Manager or his/her designee shall so notify the applicant in writing.
- E. Expiration. The City Manager or his/her designee shall not grant infeasibility waivers on or after January 1, 2045. All Infeasibility Waivers granted previously shall expire on January 1, 2045.

#### **14.06.110 Appeal**

- A. Any aggrieved Applicant may appeal the determination of the City Manager or his/her designee regarding the granting or denial of an exception or infeasibility waiver pursuant to this Chapter.
- B. Any appeal must be filed in writing with the City Clerk not later than fourteen (14) days after the date of the City's determination. The appeal shall state the alleged error or reason for the appeal.
- C. The appeal shall be processed and considered by the City Council in accordance with the provisions of the Half Moon Bay Municipal Code.

#### **14.06.070 Periodic Review**

- A. The City anticipates that all buildings will be required by the State to be fully electrified over time and thus monitoring and managing implementation of this Chapter is necessary.
- B. The City Council shall review the effectiveness of this Chapter in conjunction with the annual review of the City's adopted Climate Action and Adaptation Plan (CAAP).
- C. The City Council shall review this Chapter in conjunction with the triannual building code adoption cycle to ensure it is at least as stringent as State Code and to ensure progress under this Chapter is sufficient in conjunction with the City's Greenhouse Gas Emission Reduction Goals.

#### **14.06.080 Violations**

An owner of a building or property and/or an agent representing the owner subject to this Chapter who fails to comply with any of requirements of this Chapter shall be subject to fines and penalties contained in Title 4 (Code Enforcement) and any other enforcement provisions authorized by the California Building Code or related Codes.