Town of Windsor
CALIFORNIA

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CEQA Greenhouse Gas Consistency Determination

How to Use This Document

Development projects proposed within the Town of Windsor (Town) that are subject to discretionary review may follow the guidance contained in this document for California Environmental Quality Act (CEQA) streamlining. Applicants shall provide to the Town responses to each applicable step on the following pages and a completed Greenhouse Gas (GHG) Policy Consistency Checklist (Appendix A).

Table A
Summary of Checklist Applicability

Project Type	Discretionary Approval Required?	Checklist Required?	Streamlining Path
Project Consistent with General Plan (Category A)	Yes	Yes	Tier from General Plan EIR under *State CEQA Guidelines* Section 15152
Project Involving General Plan Amendment (Category B)	Yes	Yes	Tier from General Plan EIR under *State CEQA Guidelines* Section 15152, with Air District analysis
By-Right Projects (ministerial approval only)	No	No	Exempt (apply Building Code)

Source: Compiled by LSA (2025).
CEQA = California Environmental Quality Act
EIR = Environmental Impact Report
General Plan = Town of Windsor 2040 General Plan

Purpose and Background

The purpose of this CEQA GHG Consistency Determination document is to help the Town provide an efficient review process for new development projects that are subject to discretionary approval. This document also serves to implement the Town of Windsor 2040 General Plan (General Plan) Policy ER-5.3, Greenhouse Gas Target, and Policy ER-5.10, Energy Performance Standards, as well as General Plan Implementation Measure ER-5.

Defined as Category A Projects, projects that are consistent with the General Plan land use designation for a project site and implement all applicable policies included in the GHG Policy Consistency Checklist will be deemed to be consistent with the GHG section of the General Plan. These projects would therefore be consistent with the conclusions of the General Plan Environmental Impact Report (EIR), may rely on the tiering mechanism set forth in *State CEQA Guidelines* Section 15152, and can be found to have a less than significant impact related to GHG emissions (i.e., the project's incremental contribution to cumulative GHG effects would not be cumulatively considerable).

Defined as Category B Projects, projects that are not consistent with the General Plan land use designation for a project site and/or do not implement all applicable policies included in the GHG Policy Consistency Checklist will be deemed to be inconsistent with the Town's efforts to reduce GHG emissions and must prepare a project-specific analysis of GHG emissions. The requirements of the analysis are described below.

This document may be updated by Town staff to reflect adoption of new GHG reduction strategies or to comply with any changes and updates in the General Plan or local, State, and federal regulations. Note that not all the measures in the checklist are applicable to all discretionary projects and applicability shall be determined by the Town.

GHG Consistency Steps

The following steps outline the process for GHG CEQA Streamlining in the Town of Windsor:

Determine Land Use Consistency: Is the proposed project consistent with the approved General Plan land use designation(s)? Consistency shall be demonstrated by showing that the proposed project complies with the allowed land use type, density, and floor-area ratio (FAR) of the designated land use.

A. **Category A Projects:** If the answer is Yes, the project is consistent with the approved General Plan land use designation, the project applicant shall complete the Town of Windsor General Plan GHG Policy Consistency Checklist (see Appendix A) and submit the Checklist for Town staff review and approval.

   If the project does not comply with all applicable Checklist items, streamlining is not possible. Proceed to Step 2 below (Bay Area Air Quality Management District Thresholds).

B. **Category B Projects:** If the answer is No, the project is not consistent with the approved General Plan land use designation, the project applicant shall complete Steps 1 and 2 below:

   1. Complete the Checklist. The project applicant shall complete the Town of Windsor General Plan GHG Policy Consistency Checklist (see Appendix A) and submit the Checklist for Town staff review and approval.

   2. Bay Area Air Quality Management District Thresholds. For land use development projects, the Bay Area Air Quality Management District (BAAQMD) considers a project to have a less-than-significant impact related to GHG emissions if it meets specific project design elements related to buildings and transportation.[1] These design elements are:

      a) Buildings

         (1) The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).

         (2) The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under *State CEQA Guidelines* Section 21100(b)(3) and Section 15126.2(b).

      b) Transportation

         (1) Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:

            (a) Residential projects: 15 percent below the existing VMT per capita

            (b) Office projects: 15 percent below the existing VMT per employee

            (c) Retail projects: No net increase in existing VMT

         (2) Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of California Green Building Standards Code (CALGreen) Tier 2.

[1] Bay Area Air Quality Management District. 2022. *2022 CEQA Guidelines: Thresholds of Significance.* April 20. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/ceqa-guidelines-chapter-3-thresholds_final_v2-pdf.pdf (accessed October 2025).

The BAAQMD has provided substantial evidence that, if a project meets the criteria outlined above, the project would be consistent with State climate goals.[2] Accordingly, to ensure that new development projects in the Town of Windsor support consistency with State and local climate goals, a project may proceed as follows:

Compliance with BAAQMD Design Elements: If the proposed project demonstrates compliance with all applicable BAAQMD design elements identified above, the project would result in a less-than-significant impact related to GHG emissions and would be considered consistent with State and local climate goals. The project applicant shall submit documentation demonstrating compliance with each BAAQMD design element.

If the proposed project is not able to fully comply with the BAAQMD design elements, the following alternative process may be used. The project applicant shall provide an explanation to the Town as to why it cannot comply with the BAAQMD design elements. Subject to Town approval, the project applicant may demonstrate that alternative project features or strategies would achieve GHG emission reductions equivalent to those that would result from implementation of the BAAQMD design elements. If equivalent GHG reductions are demonstrated, the project would result in a less-than-significant impact related to GHG emissions. The project applicant shall submit documentation describing the alternative GHG emissions reduction strategy to be implemented, along with quantitative analysis or modeling sufficient to demonstrate GHG equivalency, for Town staff review and approval.

If the proposed project does not meet the BAAQMD design thresholds or show alternative compliance by demonstrating equivalent GHG emissions reductions, the project would result in a potentially significant impact, and further environmental review would be required.

[2] Bay Area Air Quality Management District. 2022. *Justification Report CEQA Thresholds for Evaluating the Significance of Climate Impacts*. April 20. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-b-thresholds-for-evaluating-significance-of-climate-impacts_final-pdf.pdf (accessed October 2025).

Appendix A: Town of Windsor General Plan GHG Policy Consistency Checklist

Town of Windsor General Plan GHG Policy Consistency Checklist

Instructions: Each checklist item included in this table corresponds to specific policies and measures that are required by the Town of Windsor (Town). For each checklist item, the Applicant shall identify whether the proposed project complies with the item by checking "Yes" or "No" and provide a detailed explanation of the selected response. For checklist items that are not applicable, enter "Not applicable" in the "Explanation" column and provide a detailed explanation of why the measure is not applicable. The completed checklist will be reviewed by Town Planning staff, and the ultimate consistency determination will be made by the Community Development Director.

Checklist Item	Relevant GP Policy, GP EIR Mitigation Measure, or Town Policy	Complies with Checklist Item?		Explanation
		Yes	No	
Construction				
Implement construction emissions measures: • Limit construction equipment idling time to 5 minutes or less. • Maintain construction equipment per manufacturer's specifications.	GP EIR Mitigation Measure AQ-1	☐	☐	
Land Use and Site Design				
Provide Shade: Project includes shade trees to provide at least 50% shade coverage within 10 years of planting in public rights-of-way, public spaces, and parking lots. Shade may also be provided in part by carports and shade structures if they are equipped with rooftop solar panels.	GP Policies M-6.3, ER-5.16, ER-5.17, and DRAFT ER-5.22	☐	☐	
Facilitate Multimodal Travel: Where appropriate, project provides transit facilities, including, but not limited to, drop-off/parking facilities for ridesharing and car-sharing services, bus turnouts, shelters, and benches. Project provides facilities to support multimodal travel, including, but not limited to, adequate bicycle parking facilities, secure long-term bicycle parking, and streetlights.	GP Policies M-1.3, M-1.4, M-2.6, M-2.10, M-3.2, M-4.4, M-4.5, M-4.6, M-4.10, M-4.11, M-5.3, and M-5.5	☐	☐	
Street Design: New or modified streets comply with the Town's *Complete Streets Design Guidelines* (and *Old Redwood Highway Corridor Enhancement Plan* where applicable).	GP Policies M-2.1, M-2.2, and M-2.3	☐	☐	
Street Connectivity: New or modified streets provide bicycle and pedestrian connection(s) from a street or driveway to the nearest public street.	GP Policies M-1.4, M-3.4, and M-3.7	☐	☐	
Development Patterns: Project siting and design supports compact development; mixed land uses; or transit-oriented development. *(Consider the standards listed below for the applicable land use type.)* • Residential: encourage high-density residential uses to be located in areas close to services and transit. • Commercial: encourage commercial areas to be linked to adjoining residential neighborhoods by well-designed and attractive streetscapes that have well-designed buildings fronting on tree-lined sidewalks with bicycle paths and street amenities. • Mixed-Use: Mixed use projects shall comply with the following objectives: • A blend of uses that are physically and functionally integrated to create a synergy between different uses and a unique sense of place;	GP Policies LU-2.5, LU-3.2, LU-4.1, LU-5.5, LU-6.1, M-5.1, ER-5.4, ER-5.9, H-8.2, and H-8.5	☐	☐	

Checklist Item	Relevant GP Policy, GP EIR Mitigation Measure, or Town Policy	Complies with Checklist Item?		Explanation
		Yes	No	
• Compact development that reduces reliance on automobiles and promotes transit, walking, and biking; • Pedestrian-oriented design with active uses built up to the sidewalks; • Industrial: discourage new industrial land uses designed or operated in a manner that produces hazardous materials/waste, vibration, noise, glare, heat, and/or air emissions at levels that adversely affect surrounding land uses.				
Water				
Indoor Water Use: The project incorporates water efficient appliances and fixtures and meets CALGreen Code Chapter 4, Section 4.303, indoor water-efficiency standards.	GP Policies DRAFT ER-5.23, PFS-2.8 and H-8.3; CALGreen Code	☐	☐	
Outdoor Water Use: Project landscape irrigation system complies with the minimum requirements of the State Model Water Efficient Landscape Ordinance (MWELO) and Town of Windsor Water Efficient Landscape Ordinance (WELO). The most conservative requirements are applicable, in case of a discrepancy. Projects shall consider installation of gray water systems for irrigation.	GP Policy DRAFT ER-5.23, PFS-2.9; State MWELO; Town WELO	☐	☐	
Energy Efficiency				
Tier 1 CALGreen Code Compliance: Consistent with Title VII Article 12 - California Green Building Code—Title 24, Part 11 of the Town Municipal Code, the project meets Tier 1 CALGreen Code requirements. The requirements to achieve Tier 1 of the 2025 CALGreen Code are outlined in Appendix B.[3]	GP Policies ER-5.15 and H-8.1; CALGreen Code	☐	☐	
Energy Efficiency: Project meets or exceeds minimum energy-efficiency standards such as those contained in Title 24, Part 6 of the California Code of Regulations (Energy Efficiency Standards for Residential and Nonresidential Buildings) and the Town's Green Building Ordinance, including in the area of passive design to reduce cooling loads. For commercial buildings, project meets or exceeds minimum energy-efficiency standards.	GP Policies ER-5.15 and H-38; 2019 Windsor Climate Emergency Resolution 3548-19; Title 24 Building Energy Efficiency Standards	☐	☐	
Energy Performance Standards and Zero Net Energy Advancement: To further support the Town's General Plan policy to strive toward Zero Net Energy (ZNE) buildings, the project incorporates one or more of the following measures from each category (A, B, C, D, and E), to the extent feasible. **A. Enhanced Building Efficiency (Above Tier 1)** 1. Energy Code Performance Exceedance: Project exceeds the applicable Title 24, Part 6 Energy Code performance requirements by 10% or more. 2. Advanced Building Envelope Measures: Project incorporates envelope improvements beyond CALGreen Tier 1, including one or more of the following: • Increased wall, roof, or floor insulation above Title 24 baseline • High-performance windows (improved U-factor/SHGC performance) • Cool roof materials exceeding Title 24 cool-roof criteria • Exterior shading design (overhangs, fins, or similar)	GP Policies ER-5.11 andER-5.10; Implementation Program ER-5; 2019 Windsor Climate Emergency Resolution 3548-19	☐	☐	

[3] The 2025 CALGreen Code will go into effect January 1, 2026.

Checklist Item	Relevant GP Policy, GP EIR Mitigation Measure, or Town Policy	Complies with Checklist Item?		Explanation
		Yes	No	
3. High-Efficiency HVAC and Water-Heating Equipment: Project installs high-efficiency systems exceeding CALGreen Tier 1 assumptions, such as: • Heat-pump HVAC with variable-speed compressors (≥ 18 SEER or equivalent) • Heat-pump water heaters with high UEF ratings (≥ 3.3 UEF) • Smart or adaptive controls (advanced thermostats, control meters, occupancy-based ventilation) • Duct leakage ≤ 3% to outside				
B. Renewable Energy, Storage, and Grid Support 1. On-Site Solar PV Above Minimum Code: Installs on-site solar PV sized at least 10% above Title 24 minimums. 2. Battery Storage: Installs on-site battery storage sized to reduce peak load or increase utilization of on-site renewable energy. 3. Solar-Ready/Battery-Ready Infrastructure: Provides solar-ready and/or battery-ready infrastructure beyond the minimum code requirements. 4. Grid-Harmonizing Controls: Installs demand-response capable or load-shifting controls (e.g., smart thermostats, load management systems). 5. Purchase Renewable Electricity: For non-residential projects, demonstrate a commitment to purchase electricity generated from renewable sources (i.e., Sonoma Clean Power EverGreen Service enrollment). 6. Participate in alternative electricity grid systems, such as community or privately-funded solar and/or microgrid programs.		☐	☐	
C. Voluntary Electrification and Load Reduction 1. High-Efficiency Electric Appliances: All installed appliances (i.e., space conditioning, water heating, cooking, and laundry, as applicable) are high-efficiency electric models. 2. Electrification of Non-Building Loads: Electrifies non-building loads (e.g., outdoor equipment, forklifts, landscaping tools, process loads) where feasible. 3. Enhanced EV Infrastructure: Provides EV-capable or EV-ready spaces at least 10 percent above what is required under Tier 1 minimums, rounded up to the nearest whole number of spaces.		☐	☐	
D. Low Emissions Construction and Building Materials 1. Prohibit construction equipment and truck idling beyond two minutes. 2. Use low-emissions construction materials, such as low-carbon concrete and recycled steel, or other materials that sequester carbon.		☐	☐	
E. Additional High-Performance Design Enhancements 1. Advanced Lighting and Controls: Installs advanced lighting and control systems that exceed Title 24 requirements by at least 10% Lighting Power Density. This can be achieved by measures such as, but not limited to, providing 100% LED lighting;		☐	☐	

Checklist Item	Relevant GP Policy, GP EIR Mitigation Measure, or Town Policy	Complies with Checklist Item?		Explanation
		Yes	No	
incorporating daylighting controls with automatic dimming during daylight hours; and installing occupancy sensors such that lighting automatically turns off in vacant areas. 2. Enhanced Temperature Regulation Measures: Integrates passive cooling or cool-community strategies (e.g., cool paving, shade trees, reflective hardscape) that reduce building energy loads to at least 10% below demand that would occur under baseline Title 24 requirements. The project applicant shall indicate which measure(s) from each category the proposed project would include. Supporting documentation must be included as an attachment to this Checklist. If the applicant demonstrates that the above measures are physically, technically, or financially infeasible (due to site constraints, shading, operational needs, disproportionate cost, etc.), the project may submit documentation of the infeasibility and comply with Tier 1 CALGreen Code (and other mandatory building codes) only, subject to review and approval by the Community Development Director.				

EIR = Environmental Impact Report
GP = Town of Windsor 2040 General Plan

This Checklist shall be reviewed at least every 5 years to incorporate new Town programs, implementation updates, and State regulations. Updates to this Checklist are subject to approval by the Community Development Director and/or the Town Manager. The Town Planning and Building Divisions will maintain a master version and a summary of approved projects demonstrating compliance.

Appendix B: Outline of 2025 CALGreen Tier 1 Requirements

Outline of 2025 CALGreen Tier 1 Requirements

Chapter 4: Mandatory Residential Measures

4.1: Planning and Design

Section 4.106: Site Development

4.106.2: Storm Water Drainage and Retention during Construction. Projects that disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, should implement the following:

1. Retention basins to retain storm water on the site
2. Filtration barriers (e.g. wattles) before discharge to public systems
3. Compliance with a lawfully enacted storm water management ordinance

4.106.3: Grading and Paving. Construction plans should indicate how the site grading or drainage system will manage all surface water runoff. (e.g. Swales, French drains, water retention gardens to prevent flooding and erosion).

4.106.4.1: EV Charging for New One- and Two-Family Dwellings and Townhouses with Attached Private Garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The service panel should provide capacity to install a 40-ampere 208/240-volt minimum. The raceway termination location must be labeled as "EV CAPABLE"

4.106.4.1: EV Charging for New Multifamily Dwellings, Hotels and Motels, and New Residential Parking Facilities. When parking is provided, parking spaces for new multifamily dwellings, hotels, and motels must meet the requirements of Section 4.106.4.2.2.

4.106.4.2.2: Multifamily Dwellings.

EV Ready Parking Spaces with Receptacles.

a. Multifamily parking facilities with assigned parking. Where the total number of units exceeds the number of assigned parking spaces, all assigned parking spaces shall be provided with one low power Level 2 EV charging receptacle.
b. Multifamily parking facilities with unassigned parking. Where the total number of units exceeds the number of unassigned parking spaces, all unassigned parking spaces shall be provided with one Level 2 EV charging receptacle.
c. Multifamily parking facilities with assigned and unassigned parking. Where multifamily buildings are provided with both assigned and unassigned parking spaces equal to or greater than the number of units provided, then at least one low power Level 2 EV charging receptacle shall be provided for each unit at either assigned or unassigned parking space, but not both.
d. Receptable power source. EV charging receptacles in multifamily parking facilities at assigned parking spaces shall be provided with a dedicated branch circuit connected to the unit's electrical panel.
e. Receptacle configurations. All 208/240 EV Charging receptacles should comply with the following configurations:
    a. For 20-ampere, NEMA 6-20R
    b. For 30-ampere, NEMA 14-30R
    c. For 50-ampere, NEMA 14-50R

EV Ready Parking Spaces with EV Chargers

a. Multifamily parking facilities with unassigned parking or common use parking. In addition to the one low Level 2 EV charging receptacle, 25% of unassigned or common use parking spaces not already provided with a low Level 2 EV charging receptacles, shall be equipped with low Level 2 EV charging receptacle and made available for all residents or guests

b. EV charger connectors shall be equipped with J1772 or J3400 connectors

c. An automatic load management system (ALMS) may be used to reduce electrical capacity

EVCS spaces shall be designed to comply with the following:

- EVCS shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A. EVCS shall also be located on an accessible route, as defined in California Building Code, Chapter 2. Electric vehicle ready spaces shall be identified by signage or pavement markings

4.106.4.4: Bicycle Parking.

- Short term bicycle parking: provide on-site parking at a ratio of one parking space per 10,0000 sq ft. short term parking shall be located within 200 ft of building entrances
- Long term parking: provide on-site parking at a ratio of one for every two dwelling units. Facilities shall be conveniently accessed from the street and may include lockable, covered enclosures.

4.2: Energy Efficiency

Refers to compliance with California Energy Code (Title 24, Part 6) for mandatory energy efficiency standards.

4.3: Water Efficiency and Conservation

Sets maximum flow rates for fixtures (lavatories, showers, toilets) and requires water-conserving landscaping practices.

4.303: Indoor Water Use

4.303.1: Water Conserving Plumbing Fixtures and Fittings. Fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.1.4.

4.303.1.1: Water Closets. Volume shall not exceed 1.28 gallons per flush.

4.303.1.2: Urinals. Wall mounted urinals shall not exceed 0.125 gallons per flush, all other urinals shall not exceed 0.5 gallons per flush

4.303.1.3: Showerheads. Single showerheads shall not exceed 1.8 gallons per minute at 80 psi and should be certified by the EPA WaterSense specifications. When a shower is served by multiple showerheads, the combined flow rate of all showerheads/outlets shall not exceed 1.8 gallons per minute at 80 psi or the shower should be designed to only allow one showerhead to be in operation at a time.

4.303.1.4: Faucets. Faucets should have the following:

- Residential lavatory faucets should not exceed 1.2 gallons per minute at 60 psi. minimum flow rate should be no less than 0.8 gallons per minute at 20 psi.
- Lavatory faucets in common areas and public uses should not exceed 0.5 gallons per minute at 60 psi
- Metering faucets when installed in residential buildings shall not exceed 0.2 gallons per cycle
- Kitchen faucets when installed in residential buildings shall not exceed 1.8 gallons per minute at 60 psi. kitchen faucets can temporarily increase to 2.2 gallons per minute, but should be reverted back to default at 1.8 gallons per minute for maximum flow

4.304: Outdoor Water Use

4.304.1: Outdoor Potable Water Use in Landscape Areas. Residential developments shall comply with local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

4.4: Material Conservation and Resource Efficiency.

4.408: Construction Waste Reduction, Disposal and Recycling

4.408.1: Construction Waste Management. Recycle and/or salvage for reuse a minimum of 65 percent of nonhazardous and demolition waste in accordance with sections 4.408.2, 4.408.3, or 4.408.4 or meet a more stringent local ordinance plan

4.408.2: Construction Management Plan. Submit a construction waste management plan

4.408.3: Waste Management Company. Utilize a waste management company to provide verifiable documentation to comply with the 65% percent waste diverted requirement under 4.408.1

4.410: Building Maintenance and Operation

4.410.1: Operation and Buildings Manual. At the time of final inspection, a manual, compact disc, or other web-based reference media should be placed in the building containing the operation and maintenance instructions as well as other relevant operational information (e.g. available public transportation, local utility, water and waste recovery providers, educational materials, etc.).

4.401.2: Recycling by Occupants. Where 5 or more multifamily dwelling units are constructed, provide readily accessible areas for depositing storage and collection of nonhazardous materials for recycling.

4.5: Environmental Quality

4.503: Fireplaces

Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with US EPA New Source Performance Standards (NSPS) emission limits as applicable.

4.504: Pollutant Control

4.504.1: Covering of Duct Openings and Protection of Mechanical Equipment during Construction. At the time of rough installation, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust and debris, which may enter the system.

4.504.2.1: Adhesives, Sealants and Caulks. Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds except for aerosol products, as specified in Subsection 2 below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds shall comply with statewide VOC standards, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

4.504.2.2: Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure (Table 4.504.3) unless more stringent local limits apply.

4.504.2.3: Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

4.504.3: Carpet Systems. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).

4.505: Interior Moisture Control

4.505.2: Concrete Slab Foundations. Concrete slab foundations required to have a vapor retarder by the California Building Code, Chapter 19 or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5.

4.505.3: Moisture Content of Building Materials. Building materials with visible signs of water damage should not be installed. Wall and floor framing should not be enclosed when the framing members exceed 19 percent moisture content.

4.506: Indoor Air Quality and Exhaust

4.506.1: Bathroom Exhaust Fans. Each bathroom shall be mechanically ventilated and shall comply with the following:

1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.

4.507: Environmental Comfort

4.507.2: Heating and Air-Conditioning System Design. Heating and air-conditioning systems shall be sized, designed and have their equipment selected using the following methods:

1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J—2016 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
2. Duct systems are sized according to ANSI/ACCA 1 Manual D—2016 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.
3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S—2014 (Residential Equipment Selection) or other equivalent design software or methods.

Chapter 5: Mandatory Non-Residential Measures

5.1: Planning and Design

5.105: Deconstruction and Reuse of Existing Structures

Effective **July 1, 2024**: Alterations ≥100,000 sq. ft. must comply with reuse/recycling requirements. Effective **Jan 1, 2026**: Threshold lowers to ≥50,000 sq. ft.

5.105.2: Reuse of Existing Buildings. An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements and existing building enclosure. Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project are not included in the calculation.

5.106: Site Development

5.106.1: Stormwater Pollution Prevention for Projects that Disturb Less than One Acre of Land. Newly constructed projects and additions which disturb less than one acre of land and are not part of a larger common plan of development or sale should comply with either the local ordinance or Best management practices.

5.106.2: Stormwater Pollution Prevention for Projects that Disturb One or More Acres of Land. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development or sale.

5.106.4: Bicycle Parking:

- Short-term bicycle parking. If the project is anticipated to generate visitors, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 20 percent of the peak daily visitors, with a minimum of one two-bike capacity rack.

- Long-term bicycle parking. 10 percent of the tenant-occupants, with a minimum of one bicycle parking facility.
- Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
- Staff bicycle parking. Minimum of two staff bicycle parking spaces per new building

5.106.5.3: *Electric Vehicle (EV) Charging.* Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6, and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

5.106.5.3.1: EV Capable Spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.3.1

5.106.5.3.2: Electric Vehicle Charging Stations (EVCS). EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC

Receptacle configurations should comply with the following:

- For 20 ampere receptacles, NEMA 6-20R
- For 30 ampere receptacles, NEMA 14-30R
- For 50 ampere receptacles, NEMA 14-50R

EV Charger Connectors: When using level 2 SAE J3400 SAE connectors, supplied by a 480 V 3-phase service, at least 20% of the EV charger connector should be J1772 with a mx output of 240 volts AC.

5.106.5.6.3 EVCS Alternative Compliance. Compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility

5.106.8: Light Pollution Reduction. Requires cutoff luminaires and compliance with outdoor lighting zones.

5.106.10: Grading and Paving. Must prevent stormwater intrusion into buildings

5.106.12: Shade Trees.

5.106.12.1: Surface Parking Areas. Shade tree plantings to provide shade over 50 percent of the parking area within 15 years.

5.106.12.2: Landscape Areas. Shade tree plantings to provide shade of 20% of the landscape area within 15 years.

5.106.12.3: Hardscape Areas. Shade tree plantings installed to provide shade over 20 percent of the hardscape area within 15 years.

5.2: Energy Efficiency

General compliance with energy efficiency standards

5.3: Water Efficiency and Conservation

5.303: Indoor Water Use

5.303.1.1: New Buildings or Additions in Excess of 50,000 Square Feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.

5.303.1.2: Excess Consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3: Water Conserving Plumbing Fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

- **Water Closets:** Flush volume not to exceed 1.28 gallons per flush
- **Wall Mounted Urinals:** Effective flush not to exceed 0.125 gallons per flush
- **Floor Mounted Urinals:** Effective flush not to exceed 0.5 gallons per flush
- **Single Showerhead:** Maximum flow rate of 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the US EPA WaterSense Specification
- **Multiple Showerheads:** When a shower is served by more than one showerhead, the combined flow rate of all showerheads should not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
- **Nonresidential Lavatory Faucets:** Not to exceed more than 0.5 gallons per minute at 60 psi.
- **Kitchen Faucets:** Not to exceed more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.
- **Wash Fountains**: Maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].
- **Metering Faucets:** Metering faucets shall not deliver more than 0.20 gallons per cycle.
- **Metering Faucets for Wash Fountains:** Maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi].

5.303.4.1: Food Waste Disposers. Disposers should either modulate the use of water to no more than 1 gpm when the disposer is not in use or automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.

5.304: Outdoor Water Use

Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO)

5.4: Material Conservation and Resource Efficiency.

Achieve material conservation and resource efficiency through protection of buildings from exterior moisture; construction waste diversion; employment of techniques to reduce pollution through recycling materials; and building commissioning or testing

5.407 Water Resistance and Moisture Management

5.407.1: Weather Protection. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance.

5.407.2: Moisture Control. Employ moisture control measures by implementation of sprinkles, entries and openings, exterior door protection, or flashing.

5.408: Construction Waste Reduction, Disposal and Recycling

5.408.1: Construction Waste Management. Recycle and/or salvage for reuse a minimum of 65 percent of nonhazardous and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent. *5.408.1.1: Construction Waste Management Plan.* Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

4.408.3: Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

5.408.1.3: Waste Stream Reduction Alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

5.408.3: Excavated Soil and Land Clearing Debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, material may be stockpiled on site until the storage site is developed.

5.409: Life Cycle Assessment

Nonresidential projects over 100,000 sq. ft. (and schools over 50,000 sq. ft.) must comply with one of three pathways:

1. **Building Reuse (Section 5.105.2)**
   - Reuse at least 45% of an existing structure and exterior enclosure.
   - Limits apply when combining reuse with new construction.
2. **Performance Path – Whole Building Life Cycle Assessment (Section 5.409.2)**
   - Conduct a cradle-to-grave Whole Building Life Cycle Assessment (WBLCA):
     - Must follow ISO 14040 and ISO 14044 standards.
     - Excludes operating energy in mandatory measure (Appendix A adds optional operating energy impacts).
     - Demonstrate ≥10% reduction in Global Warming Potential (GWP) compared to a baseline building of similar size, type, and location.
   - **Software Requirements**:
     - Data sets must comply with ISO 14044 and ISO 21930 or EN 15804.
     - Software must conform to ISO 21931 and/or EN 15978.
     - Examples: Athena Impact Estimator (free), OneClick LCA Planetary (free), SimaPro, GaBi, Tally for Revit.
   - **Documentation:**
     - Worksheet WS-9 may be required by the enforcing agency.
     - ASTM E2921-22 can be consulted for comparison criteria.
3. **Prescriptive Path (Section 5.409.3)**
   - Provide Environmental Product Declarations (EPDs) for specified materials (steel, glass, mineral wool, concrete).
   - EPDs must show GWP values below specified thresholds

5.410: Building Maintenance and Operation

5.410.1: Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, or meet a lawfully enacted local recycling ordinance, if more restrictive.

5.410.2: Commissioning. New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements.

5.410.4: Testing and Adjusting. New buildings Less than 10,000 Square Feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.5: Environmental Quality

5.503: Fireplaces

Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the *California Energy Code*, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1: Woodstoves. Woodstove and pellet stoves shall comply with US EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

5.504: Pollutant Control

5.504.1: Temporary Ventilation. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 13, based on ASHRAE 52.2. Replace all filters immediately prior to occupancy

5.504.3: Covering of Duct Openings and Protection of Mechanical Equipment during Construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.4.1: Adhesives, Sealants and Caulks. Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds except for aerosol products (see below).
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

5.504.4.3: Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply.

5.504.4.3.1: Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

5.504.4.4: Carpet Systems. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).

5.504.4.5: Composite Wood Products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building should meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.) Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.6: Resilient Flooring Systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).

5.504.4.7: Thermal Insulation. Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).

5.504.4.8: Acoustical Ceilings and Wall Panels. Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).

5.504.5: Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

5.505: Interior Moisture Control

5.505.1: Indoor Moisture Control. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

5.506: Indoor Air Quality and Exhaust

5.506.1: Outside Air Delivery. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2: Carbon Dioxide (CO_2) Monitoring. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120.1(c)(4).

5.506.3: Carbon Dioxide (CO_2) Monitoring in Classrooms. Classrooms and other similar rooms that are used for group instruction shall be equipped with a carbon dioxide monitor or sensor.

5.507: Environmental Comfort

5.507.4: Acoustical Control. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, using either the prescriptive or performance method.

5.508: Outdoor Air Quality

5.508.1: Ozone Depletion and Greenhouse Gas Reductions. Installations of HVAC, refrigeration and fire suppression equipment should not have chlorofluorocarbons or halons.

5.508.2: Supermarket Refrigerant Leak Reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Prerequisite and Elective Measures for Tier 1 (Appendix 4 and 5)

Appendix 4: Residential Measures

In addition to ALL the mandatory measures, compliance with the following prerequisite and elective measures from Appendix A4 is also required to achieve Tier 1 status:

1. Planning and Design.
    a. Topsoil Protection: Displaced topsoil shall be stockpiled for reuse in a designated area and covered or protected from erosion
    b. Water Permeable Surfaces: Not less than 20 percent of the total parking, walking or patio surfaces shall be permeable.
    c. Cool roof requirements: Roofing materials shall have a minimum 3-year aged solar reflectance equal to or greater than the values specified in Tables A4.106.5.1(1) and A4.106.5.1(3) for Tier 1
    d. The EV spaces required by Section A4.106.8.2 shall be designed and constructed in accordance with Sections 4.106.4.2, 4.106.4.2.2.1.1, 4.106.4.2.2.1.2 and 4.106.4.2.5.

        A4.106.8.2.1 Multifamily Dwellings, Hotels and Motels.

        - Tier 1. New multifamily dwellings, hotels and motels.
            1. EV ready parking spaces with receptacles.
                1. Hotels and motels. Sixty (60) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles.
                2. Raceway capacity requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 EV charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.
            2. EV ready parking spaces with EV chargers.
                1. Hotels and motels. Forty (40) percent of the total number of parking spaces for hotels and motels shall be equipped with Level 2 EV chargers.
                2. Multifamily parking facilities with unassigned or common use parking. In addition to the low power Level 2 EV charging receptacle requirements of Section A4.106.8 (Tier 1, subsection 1), forty (40) percent of the total number of parking spaces shall be equipped with Level 2 EV chargers and shall be made available for use by all residents or guests.
    e. Comply with at least two elective measures selected from Division A4.1.
2. Energy Efficiency.
    a. For newly constructed low-rise residential buildings, comply with the energy efficiency requirements in Sections A4.203.1, A4.203.1.1, Table A4.203.1.1, A4.203.1.2 and A4.203.1.3.

        A4.203.1.1 Long-Term System Cost (LSC). LSC rating for the building's Proposed Design shall be computed by Compliance Software certified by the Energy Commission as specified in Title 24, Part 6, Section 100.1 and 150.1(b), and shall reduce the LSC required in the Compliance Software for minimum performance-based compliance with the California Energy Code by the compliance margin specified in Table A4.203.1.1. The rating shall be included in the Certificate of Compliance documentation.

A4.203.1.2 Prerequisite Options. In addition, a minimum of TWO of the efficiency measures below shall be met:

1. Roof deck insulation or ducks in conditioned space
2. High performance walls
3. Compact hot water distribution system
4. Drain water heat recovery
5. High performance vertical fenestration
6. Heat pump water heater demand management
7. Battery storage system controls

A4.203.1.3 Consultation with Local Electric Service Provider. Local jurisdictions considering adoption of reduced LSC targets based on using solar photovoltaic (PV) systems larger than required by the California Energy Code shall consult with the local electric service provider to ensure that PV system sizing required to comply with the LSC targets will be acceptable to the local electric service provider. The local jurisdiction shall not require onsite PV systems that are larger than the local electric service provider will allow to be interconnected.

3. Water Efficiency and Conservation.
   a. Comply with at least two elective measures selected from Division A4.3. Options include:
      1. Kitchen faucets not to exceed to exceed 1.5 gallons per minute at 60 psi
      2. At least one qualified energy star dishwasher or clothes washer
      3. Nonwater urinals and waterless toilets
      4. Hot water recirculation systems
      5. Rainwater catchment systems
      6. Potable water elimination
      7. Landscape water meters
      8. Water reuse systems including greywater, recycled water piping, recycled water for landscape irrigation
4. Material Conservation and Resource Efficiency.
   a. Comply with the 20 percent cement reduction requirements
   b. Comply with the 10 percent recycled content requirements
   c. Comply with the 65 percent reduction in construction waste
      1. At least a 65 percent reduction. Any mixed recyclables that are sent to mixed-waste recycling facilities shall include a qualified third party verified facility average diversion rate. Verification of diversion rates shall meet minimum certification eligibility guidelines, acceptable to the local enforcing agency.
   d. Comply with at least two elective measures selected from Division A4.4.
5. Environmental Quality.
   a. Comply with the 90 percent resilient flooring systems requirements
      1. Meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350) AND At least 90 percent of the total area of resilient flooring installed shall comply.
   b. Comply with the thermal insulation requirements for Tier 1
      1. Install thermal insulation that meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)
   c. Comply with at least one elective measure selected from Division A4.5.

Appendix 5: Non Residential Measures

Comply with the energy efficiency requirements in Section A5.203.1.1 and Section A5.203.1.2.1.

To comply with Tier 1, ONE of the following efficiency measures is required for all applicable components of the building project:

- Newly installed outdoor lighting power shall be no greater than 90 percent of the Allowed Outdoor Lighting Power, and general hardscape lighting within the scope of Title 24, Part 6, Section 140.7(b)1 shall have a color temperature no higher than 3000K.
- Outdoor pole-mounted and arm-mounted luminaires shall be installed with tilting not greater than 10 degrees, or the outdoor luminaires shall be installed with arm-mount or tenon-mount capable of tilting less than or within 10 degrees.
- Newly constructed restaurants 8,000 square feet or greater and with service water heaters rated 75,000 Btu/h or greater shall install a solar water-heating system with a minimum solar savings fraction of 0.15
- Exterior loading dock doors that are adjacent to conditioned or indirectly conditioned spaces shall have dock seals or dock shelters installed at the time of permitting. This requirement shall apply to newly constructed buildings and to loading dock doors added to existing buildings.
- Heat recovery requirements based on ASHRAE 90.1, Section 6.5.6.1

A5.203.1.2.1: Tier 1

Buildings complying with the first level of advanced energy efficiency shall have an Energy Budget that is no greater than indicated below, depending on building type and the type of energy systems included in the building project. If the newly constructed building or addition does not include indoor lighting or mechanical systems, then no additional performance requirements above Title 24, Part 6 are required.

1. For nonresidential building projects that include indoor lighting or mechanical systems, but not both: No greater than 95 percent of the Title 24, Part 6, Energy Budget for the Standard Design Building as calculated by compliance software certified by the Energy Commission.
2. For nonresidential building projects that include indoor lighting and mechanical systems: No greater than 90 percent of the Title 24, Part 6 Energy Budget for the Standard Design Building as calculated by compliance software certified by the Energy Commission.
3. For high-rise residential and hotel/motel building projects: No greater than 95 percent of the Title 24, Part 6, Energy Budget for the Standard Design Building as calculated by compliance software certified by the Energy Commission.

A5.601.2.4 Voluntary Measures for Tier 1

In addition to the provisions of Sections A5.601.2.1 and A5.601.2.3 above, compliance with the following voluntary measures from Appendix A5 is required for Tier 1:

1. From Division A5.1,
    1. Comply with the designated parking requirements for high-efficiency vehicles for a minimum of 35 percent of parking capacity
    2. Electric vehicle (EV) charging per Table A5.106.5.3.1 w/ footnotes.
    3. Comply with thermal emittance, solar reflectance or SRI values for cool roofs in Table A5.106.11.2.2.[1]
    4. Comply with one elective measure selected from this division.
2. From Division A5.3,
    1. Comply with the 12-percent reduction for indoor potable water use
    2. Comply with one elective measure selected from this division.
3. From Division A5.4,
    1. Comply with recycled content of 10 percent of materials based on estimated total cost, or use two products from Table A5.405.4 for at least 75 percent by cost

2. Comply with the 65-percent reduction in construction and demolition waste
3. Comply with one elective measure selected from this division.

4. From Division A5.5,
   1. Comply with resilient flooring systems for 90 percent of resilient flooring
   2. Comply with thermal insulation meeting 2009 CHPS low-emitting materials list

Appendix C: List of General Plan Policies that Support GHG Reductions and Are Referenced in GHG Checklist

List of General Plan Policies that Support GHG Reductions and Are Referenced in GHG Checklist

Sector	Policy Number	Policy Text
Land Use	**LU-2.5**	**High-Density Residential Areas.** The Town shall encourage high-density residential uses to locate in areas close to services and transit.
Land Use	**LU-3.2**	**Connectivity to Neighborhoods.** The Town shall encourage commercial areas to be linked to adjoining residential neighborhoods by well-designed and attractive streetscapes that have well-designed buildings fronting on tree-lined sidewalks with bicycle paths and street amenities. (New Policy, Town Staff and Consultants)
Land Use	**LU-4.1**	**Mixed-Use Objectives.** Mixed use projects shall comply with the following objectives: • A blend of uses that are physically and functionally integrated to create a synergy between different uses and a unique sense of place; • Compact development that reduces reliance on automobiles and promotes transit, walking, and biking; • Pedestrian-oriented design with active uses built up to the sidewalks; • A comfortable public realm that encourages community members to gather and socialize; • Increased economic vitality; and • Crime prevention and security by providing building facades behind sidewalks that provide eyes on the streets.
Land Use	**LU-5.5**	**Discourage Adverse Impacts.** The Town shall discourage new industrial land uses designed or operated in a manner that produces hazardous materials/waste, vibration, noise, glare, heat, and/or air emissions at levels that adversely affect surrounding land uses.
Land Use	**LU-6.1**	**Sustainable Land Use Pattern.** The Town shall strive to provide an overall pattern of land uses that encourages sustainable development; creates a safe and attractive public realm; provides an interconnected network of streets; offers convenient alternatives to auto travel; ensures compatibility among uses; enhances livability and public health; sustains economic vitality; preserves open space and agricultural resources; and reduces air pollution, greenhouse gas emissions, and energy consumption.
Transportation and Mobility	**M-1.3**	**Development of Pedestrian, Bicycle, and Transit Facilities.** The Town shall encourage the development of facilities and services (e.g., secure long-term bicycle parking, streetlights, street furniture and trees, transit stop benches and shelters, and street sweeping of bike lanes) that enable bicycling, walking, and transit to become more widely used modes of transportation and recreation.
Transportation and Mobility	**M-1.4**	**Multimodal System Additions.** The Town shall require all new development that proposes or is required to construct or extend streets to develop a transportation network that complements and contributes to the Town's multimodal system, maximizes connections, and minimizes barriers to connectivity.
Transportation and Mobility	**M-2.1**	**Complete Streets Design Guidelines.** The Town shall ensure that the concepts and design standards/guidelines in the adopted Complete Street Design Guidelines are considered during review of new development proposals, when constructing new streets, and when modifying existing corridors in order to ensure accessibility for all.
Transportation and Mobility	**M-2.2**	**Complete Street Practices.** The Town shall continue to work towards making complete streets a routine part of everyday transportation decision-making.
Transportation and Mobility	**M-2.3**	**Safe and Comfortable Streets.** The Town shall design streets to enhance Windsor's identity, to be safe and convey a sense of security, and to be comfortable and convenient for all travel modes including motor vehicles, pedestrians, and bicyclists.
Transportation and Mobility	**M-2.6**	**Incorporate Trails and Creeks.** In the design of new residential development or the planning for a trail segment, homes should front onto "single-loaded" streets that front onto the trails and creeks whenever possible, consistent with the Creekside Development provisions in the Zoning Ordinance.
Transportation and Mobility	**M-2.10**	**Bicycle and Pedestrian Connectivity.** The Town shall ensure that commercial and residential development, including affordable housing projects, provides convenient and direct connections to the nearest existing bikeways, pedestrian ways, and public transit facilities.

Sector	Policy Number	Policy Text
Transportation and Mobility	**M-3.2**	**Private Development Street Connections.** The Town shall encourage private developments (e.g., office parks, single-family subdivisions apartment complexes, retail centers) to provide internal complete streets that connect to the existing public roadway system and provide a transition to existing and planned transportation facilities. Bicycle and pedestrian connectivity from the private street to the nearest public street(s) shall also be provided.
Transportation and Mobility	**M-3.4**	**Street Design.** The Town shall encourage streets to be designed or upgraded in ways that support walkable and bikeable environments and to be consistent with the Town's Complete Street Design Guidelines.
Transportation and Mobility	**M-3.7**	**Street Connections in New Developments.** The Town shall promote street designs in new developments that provide convenient connections to local destinations and to adjacent neighborhoods. Travel should be dispersed among several streets rather than a few high-volume local streets that divide neighborhoods and discourage walking.
Transportation and Mobility	**M-4.4**	**Pedestrian and Bicycling Gaps.** The Town shall encourage closing the gaps in the sidewalk and bicycling network to ensure continuous pedestrian and cycling access within town, particularly the gaps in connection due to the bisecting of U.S. Highway 101.
Transportation and Mobility	**M-4.5**	**Bicycle Infrastructure Planning.** The Town shall consider the needs of bicyclists of all types (commuters, recreational riders, children, and families) in planning, developing, and maintaining a bikeway network that is safe and convenient.
Transportation and Mobility	**M-4.6**	**Bicycle Safety Improvements.** The Town shall improve bicycle safety by expanding the use of separated bicycle lanes, green bicycle lanes, and adequate lighting, particularly around schools and in other areas where bicycle safety is a concern.
Transportation and Mobility	**M-4.10**	**Bicycle and Pedestrian Crossing Safety.** The Town shall develop safe and convenient bikeways and pedestrian crossings that reduce conflicts between pedestrians, bicyclists, and motor vehicles on streets, multi-use trails, and sidewalks.
Transportation and Mobility	**M-4.11**	**Bicycle Parking.** The Town shall continue to require adequate bicycle parking facilities at schools, parks, shopping centers, and places of employment in both commercial and industrial areas.
Transportation and Mobility	**M-5.1**	**Transit Oriented Development.** The Town shall encourage higher density mixed land uses within walking distances of existing and future transit stops.
Transportation and Mobility	**M-5.3**	**Safe Routes to Transit.** The Town shall continue to implement a safe routes program that prioritizes pedestrian and bicycle access to transit stops and stations.
Transportation and Mobility	**M-5.5**	**Developer Constructed Transit Facilities.** The Town shall require developers to construct, when appropriate, transit facilities including drop-off and parking facilities for ride-sharing and car-sharing services, bicycle parking, bus turnouts, shelters, and benches.
Transportation and Mobility	**M-6.3**	**Reducing Heat Island Effect in Parking Lots.** The Town shall encourage parking lots to incorporate measures for reducing the heat island effect (e.g., using trees and vegetation, solar arrays to create shade, light-colored surfacing materials).
Transportation and Mobility	**M-6.4**	**Parking Off-Sets.** The Town shall encourage developers and employers to offer programs (e.g., transit passes or other transit enhancements) to reduce parking demand and shall consider reducing parking requirements where such programs are in place or planned.
Transportation and Mobility	**M-6.6**	**Parking Standard Reductions.** The Town shall consider eliminating or reducing minimum parking standards for private vehicles in transit-oriented developments, mixed-use developments, affordable housing developments and developments in high density areas based on demonstrated need that is supported by a professionally-prepared parking study, and/or provided adequate off-site parking is available.
Public Facilities and Uses	**PFS-2.9**	**Water Efficient Landscaping.** The Town shall require new development to incorporate and implement a whole systems approach to design, construction, installation and maintenance of the landscaping so as to result in water conserving, climate-appropriate landscapes, improved water quality and the minimization of natural resource inputs.
Public Facilities and Uses	**PFS-5.1**	**Waste Management.** The Town shall continue to improve its solid waste management system through emphasis on waste prevention, reuse, recycling, composting, and disposal.
Public Facilities and Uses	**PFS-5.8**	**2020 Recycling Target.** The Town shall support efforts to recycle at least 75 percent of solid waste by 2020 (AB 341) and shall work with the Town's franchise waste hauler and regional waste authorities toward a goal of 90 percent waste reduction.
Environmental Resources	**ER-4.6**	**Residential EV Charging Stations.** The Town shall encourage the installation of EV charging stations in homes to increase the ability for the public to use zero-emission vehicles, lessening the impacts to air quality through pollution.

Sector	Policy Number	Policy Text
Environmental Resources	**ER-4.7**	**Zero-Emission and Low-Emission Vehicle Use.** The Town shall encourage the use of zero-emission vehicles, low-emission vehicles, bicycles and other non-motorized vehicles, and car-sharing programs by requiring sufficient and convenient infrastructure and parking facilities throughout the Town.
Environmental Resources	**ER-5.4**	**Encourage Development Patterns that Reduce Greenhouse Gas Emissions.** The Town shall strive to reduce greenhouse gas emissions by encouraging compact, mixed-use, pedestrian/bicycle friendly, transit-oriented development that reduces vehicle miles traveled (VMT); promoting energy efficient building enhancements, construction practices, design, and site planning; improving the job-to-housing ratio; and other methods of reducing greenhouse gas emissions while maintaining a balance of housing types.
Environmental Resources	**ER-5.8**	**Energy Conservation and Efficiency Programs.** The Town shall promote energy conservation/energy efficiency improvement programs for residential and commercial properties such as those offered by Sonoma County Energy Independence Program (SCEIP) and Property Assessed Clean Energy (PACE), that reduce energy demand which contribute to background levels of regional air emissions and GHG emissions.
Environmental Resources	**ER-5.9**	**Energy Conservation through Land Use.** The Town shall promote the creation of a land use pattern that reduces operational energy requirements, especially for transportation purposes, by: a. Avoiding land use configurations and siting decisions that result in single-purpose automobile trips and instead encouraging patterns that result in multi-purpose trips. b. Promoting land use patterns that may be easily served by local transit and linked with regional transit. c. Promoting land use patterns that provide employment opportunities for Windsor residents.
Environmental Resources	**DRAFT ER-5.10**	**Energy Performance Standards.** The Town shall require new construction to meet targeted energy performance standards to advance Town greenhouse gas reduction and other sustainability goals and policies identified in the General Plan. The Town will allow new development to select from a range of options to achieve a minimum energy performance standard, including but not limited to the measures listed below, as well as emerging technologies as they become available: • Cool roofs; • Installation of energy efficient appliances and fixtures; and • Installation of EV charging stations in homes and in commercial development to increase the ability for the public to use zero-emission vehicles; • Passive heating and cooling building design; • Smart appliances (electric devices that include timers and/or smart meters to support reduced energy consumption); • Solar easements to guarantee access to increased renewable energy generation; • Solar roof and carport panels; and • Wind or water turbine-powered generation. The Town shall work with affordable housing developers to assist in meeting the energy performance standards
Environmental Resources	**ER-5.11**	**Zero Net Energy Goals.** The Town shall strive to implement the State goal of zero net energy (ZNE) in all new residential construction by 2020 and ZNE in all new commercial construction by 2030.
Environmental Resources	**ER-5.15**	**Title 24 Application.** The Town shall require energy conservation standards for new residential construction, commercial construction, and within Town facilities, as contained in Title 24 of the California Code of Regulations, to be periodically reviewed to identify opportunities for adopting standards that more closely respond to local conditions, especially in the area of passive design, to reduce cooling loads.
Environmental Resources	**DRAFT ER-5.16**	**Address Heat Island Effect in Parking Lots.** The Town shall require the planting of shade trees, using native or climate-forward trees when feasible, and solar shade structures, when applicable, in all new and expanded parking lots to reduce the heat island effect. Climate-forward trees refer to drought-tolerant and heat-adapted species. In addition, the Town shall encourage or require the use of cool pavement materials, such as light-colored paving or permeable surfaces that reduce heat and manage rainwater. The Town shall consider updates to the zoning code to enforce this measure.

Sector	Policy Number	Policy Text
Housing	**H-8.1**	The Town shall ensure that all new residential development meets or exceeds the standards contained in Title 24, Part 6 of the California Code of Regulations (Energy Efficiency Standards for Residential and Nonresidential Buildings) and the Town's Green Building Ordinance, and encourage the retrofitting of existing development to improve energy and conservation.
Housing	**H-8.2**	The Town shall establish a development pattern that helps reduce vehicle miles traveled and promotes transit ridership, and pedestrian and bicycle access.
Housing	**H-8.5**	The Town shall encourage residential development in proximity to the SMART Station, consistent with the Windsor Station/Downtown Specific Plan, to reduce vehicle miles traveled and promote transit ridership.
Housing	**H-38**	**Energy Efficiency in Residential Development.** Maximize energy efficiency in residential areas.

List of policies that support climate action but are implemented at the Town level and are not applicable to individual development projects:

Sector	Policy Number	Policy Text
Land Use	**LU-1.6**	**Design for Livable Environments.** The Town shall maintain design standards and create form-based codes or form-based design standards for specific areas that promote walkable and livable environments.
Land Use	**LU-6.2**	**Land Use that Supports Active Transportation.** The Town shall maintain a land use plan and policy framework that support walking, biking, and transit ridership.
Land Use	**LU-6.3**	**Encourage Higher Intensity Development in Appropriate Locations.** The Town shall encourage higher intensity uses where they would: a. be within a reasonable walking distance of the Downtown/Station Area or other commercial/service areas; b. take advantage of convenient access to U.S. 101 and the Town's crosstown streets; or c. take maximum advantage of existing and future public transit stops, specifically bus and rail service.
Land Use	**LU-9.6**	**Support Regional Solutions.** When consistent with the Town of Windsor General Plan, the Town shall support Sonoma County's efforts to achieve regional solutions to issues related to land use, transportation, climate change, water supply sources, solid waste, and the preservation of open space and natural resources.
Transportation and Mobility	**M-1.1**	**Multimodal Transportation System.** The Town shall continue to implement a multimodal transportation system that connects residents to activity centers throughout and near town, such as commercial centers and corridors, employment centers, the SMART train stop, the airport, schools, parks, recreation areas, and other attractions.
Transportation and Mobility	**M-1.2**	**Trip Generation Reduction for Applicable Developments.** The Town shall consider appropriate reductions to the trip generation for projects with a multimodal system approach that increases transit ridership, biking, and walking, in order to reduce air pollution, energy consumption, and greenhouse gas emissions.
Transportation and Mobility	**M-2.4**	**Managing Transportation in the Right-of-Way.** The Town shall balance the needs of all travel modes when planning transportation improvements, including pedestrian and bicycle trails and pathways.
Transportation and Mobility	**M-2.5**	**Complete Street Infrastructure.** The Town shall incorporate appropriate complete street infrastructure, including technologies supporting automated vehicle travel as industry standards are developed and facilities supporting increased use of "on-demand" car-sharing and ride-sharing services, into transportation planning, funding, design, approval, and implementation processes and projects.
Transportation and Mobility	**M-2.7**	**Complete Street Priority Areas.** The Town shall prioritize complete streets improvements (e.g., bicycle, pedestrian, vehicle, and transit facilities) at and along U.S. Highway 101 interchanges, including Shiloh Road, Arata Lane, and Central Windsor.
Transportation and Mobility	**M-2.8**	**Review Transportation Facilities for Development Proposals.** The Town shall consider on-site and off-site transportation facility improvements during the review of development proposals to ensure that connected facilities are provided for all modes of transportation.

Sector	Policy Number	Policy Text
Transportation and Mobility	**M-2.9**	**Multimodal Level of Service.** The Town shall consider applying a multimodal level of service standard in Windsor.
Transportation and Mobility	**M-3.1**	**Connected Network.** The Town shall strive to create a more connected transportation network by eliminating "gaps" in roadways, bikeways, and pedestrian networks; increasing transit access; and removing natural and manmade barriers to accessibility and connectivity.
Transportation and Mobility	**M-3.8**	**Street Retrofitting for Connectivity.** The Town shall encourage the retrofitting of existing streets to be more consistent with the Town's desires for an interconnected street network of complete streets that are pedestrian oriented. This would include reducing the extent of pavement on residential streets by adding contiguous planting strips.
Transportation and Mobility	**M-3.18**	**Vehicle Miles Traveled (VMT) Standard.** The Town shall consider the applicability of using transportation performance metrics such as Vehicle Miles Traveled (VMT) and associated thresholds for measuring transportation system impacts provided in the California Environmental Quality Act (CEQA) guideline amendments adopted for the implementation of SB 743 (Steinberg, 2013), as well as for making General Plan consistency determinations and developing transportation financing programs.
Transportation and Mobility	**M-4.2**	**Trail Network.** The Town shall expand its network of trails throughout the town, wherever feasible, through public open spaces and easements for recreational enjoyment and for a vehicle-free route to parks, schools, and neighborhoods through walled subdivisions.
Transportation and Mobility	**M-4.7**	**Bicycle Detection at Intersections.** The Town shall require that all signalized intersections include bicycle detection and are properly marked and operational for use by bicyclists.
Transportation and Mobility	**M-4.12**	**Temporary Bicycle Parking for Events.** The Town shall require that adequate temporary bicycle parking be made available at events and festivals to encourage alternative modes of transportation to and from events, helping to alleviate potential congestion.
Transportation and Mobility	**M-4.14**	**Safe Routes to School.** The Town shall continue to coordinate with the School District on implementation of the Safe Routes to School program to ensure a safe pedestrian and bicycling network to and from local educational facilities for all.
Transportation and Mobility	**M-4.15**	**SMART Trail.** The Town shall work with Sonoma Marin Area Rail Transit on the implementation of the SMART Trail which will extend a multi-use path adjacent to the SMART corridor, connecting bicyclists and pedestrians north and south from the multi-modal transit station into neighboring jurisdictions.
Transportation and Mobility	**M-4.16**	**Bicycle and Pedestrian Education.** The Town shall continue to provide programs that educate the community about bicycle and pedestrian safety as well as the availability of facilities for and benefits of walking and biking.
Transportation and Mobility	**M-5.2**	**Expansion of Bus Service.** The Town shall support expansion of local bus service through Sonoma County Transit, consistent with funding resources, to link residences with key local destinations, such as employment centers and the airport, and shall support the continuation of paratransit service to satisfy needs of qualified users.
Transportation and Mobility	**M-5.4**	**Bicycle Accommodations on and near Transit.** The Town shall encourage local and regional transit agencies to accommodate bicycle parking at transit stops and bicycle storage on transit vehicles to ensure adequate capacity to meet demand.
Transportation and Mobility	**M-5.6**	**SMART Train Coordination.** The Town shall continue to work with SMART on the timing and operation of rail transit, including service of the stop in Downtown Windsor, and shall continue to coordinate with Sonoma County Transit to provide additional service to the rail station at such time rail service is initiated.
Transportation and Mobility	**M-6.8**	**Alternative Fuel Vehicle Parking.** The Town shall support parking for Electric Vehicles (EVs), carpools, and hybrids, including the development of local charging stations in both public and private parking lots and large commercial parking lots.
Transportation and Mobility	**M-10.6**	**Coordination on Transportation GHG Reduction.** The Town shall coordinate with the Sonoma County Transportation Authority (SCTA) and Regional Climate Protection Authority on regional transportation initiatives that help the Town and County achieve its greenhouse gas emission reduction goals.
Public Facilities and Uses	**PFS-1.5**	**Sustainable Practices.** The Town shall serve as a role model to businesses and institutions regarding purchasing decisions that minimize the generation of waste, recycling programs that reduce waste, energy efficiency and conservation practices that reduce water, electricity and natural gas use, and fleet operations that reduce gasoline consumption.

Sector	Policy Number	Policy Text
Public Facilities and Uses	**PFS-1.6**	**Energy Efficient Buildings and Infrastructure.** The Town shall continue to improve energy efficiency of Town buildings and infrastructure through efficiency improvements, equipment upgrades, and installation of clean, renewable energy systems to achieve climate action goals and reduce operating costs.
Environmental Resources	**ER-4.3**	**Wood Burning Fireplace Replacement.** The Town shall promote the replacement of non-EPA certified fireplaces and woodstoves and encourage Town residents to participate in BAAQMD and NSCAPCD programs, such as the Wood Stove Rebate Program.
Environmental Resources	**ER-4.4**	**Town Vehicle and Equipment Fleet.** The Town shall continue to purchase low-emission vehicles and use clean alternative fuels as part of their fleet. When possible, the Town should replace gas and hybrid vehicles with electric vehicles.
Environmental Resources	**ER-4.8**	**Collaboration for Businesses to Use Low and Zero Emission Vehicles.** The Town shall collaborate with local businesses, the County, BAAQMD, NSCAPCD, and State and Federal agencies to encourage the use of Super Ultra-Low Emission Vehicles (SULEV), Zero Emission Vehicles (ZEV), and Plug-in Hybrid vehicles and trucks, where feasible, to lessen air quality emissions.
Environmental Resources	**ER-4.9**	**Joint Commuting to Limit Pollution.** The Town should support current and emerging ride-sharing technology and participate in regional efforts to promote and offer carpooling, vanpooling, and other forms of high occupancy vehicles to limit the amount of pollution linked to daily commuter automobile use.
Environmental Resources	**DRAFT ER-5.1**	**Community Greenhouse Gas Reduction.** The Town shall strive to reduce emissions by: • 40 percent below the 1990 level by 2030; • 60 percent below the 1990 level by 2040; and • 80 percent below the 1990 level by 2050. Progress toward 2030, 2040, and 2050 goals shall be assessed at least every five years through RCPA community inventories or equivalent local GHG emissions tracking.
Environmental Resources	**DRAFT ER-5.2**	**Municipal Services Greenhouse Gas Reduction.** The Town shall strive to reduce municipal emissions by: • 40 percent below the 1990 level by 2030; • 60 percent below the 1990 level by 2040; and • 80 percent below the 1990 level by 2050. Progress toward 2030, 2040, and 2050 goals shall be assessed at least every five years through Town municipal GHG emissions inventory reporting.
Environmental Resources	**DRAFT ER-5.3**	**Greenhouse Gas Target.** The Town shall ensure that all new development projects and Public Works Improvement projects comply with all applicable measures set forth in the Town's CEQA GHG Consistency Checklist, including consistency with the Bay Area Air Quality Management District (BAAQMD) thresholds and project design elements..
Environmental Resources	**DRAFT ER-5.5**	**Greenhouse Gas Assessment and Monitoring.** The Town shall continue to assess and monitor performance of greenhouse gas emissions (GHG) reduction efforts, including progress towards meeting long-term GHG emissions reduction goals for 2030 (consistent with SB 32) and 2050, as well as the effects of climate change and associated levels of risk, in order to plan a community that is resilient and can adapt to changing climate conditions and its negative impacts.
Environmental Resources	**DRAFT ER-5.6**	**Coordinate with BAAQMD and NSCAPCD.** The Town shall coordinate with the Bay Area Air Quality Management District (BAAQMD) and Northern Sonoma County Air Pollution Control District (NSCAPCD) to ensure projects incorporate feasible mitigation measures to reduce GHG emissions and air pollution, if not already provided for through project design.
Environmental Resources	**DRAFT ER-5.7**	**Reduce Mobile Source and Idling Emissions.** The Town shall promote the reduction of mobile-source and idling emissions throughout the community. For municipal operations, the Town shall implement programs to support reduced idling, trip reduction, routing for efficiency, carpooling, walking/biking and electric vehicle use. Community-wide idling reduction shall be supported through education and outreach, including public awareness campaigns and coordination with schools to reduce idling in pickup and drop-off areas and/or Town ordinance updates that support the reduction of idling. The Town shall also pursue transportation system efficiency improvements, such as signal timing optimization, adaptive or coordinated signal systems, and other traffic flow enhancements that reduce stop-and-go conditions, vehicle delay, and unnecessary idling.

Sector	Policy Number	Policy Text
Environmental Resources	**DRAFT ER-5.12**	**Retrofitting Existing Buildings.** The Town shall actively encourage the retrofitting of existing buildings throughout Windsor in order to align those buildings more closely with the Town's energy performance standards. As part of this initiative, the Town shall develop a volunteer program to showcase residential retrofit success stories and lessons learned.
Environmental Resources	**ER-5.13**	**Update Energy Policies and Programs.** At least every five years, the Town shall update and strengthen Town energy-related policies and programs for new and existing construction to reflect advances in technologies and practices.
Environmental Resources	**DRAFT ER-5.17**	**Support Urban Forestry.** The Town should expand urban shade tree planting to provide shade in both the public rights-of-way and as part of development proposals, using native or climate-forward trees where feasible. The Town shall pursue outreach, education, and seek grant funding to develop and implement an Urban Forestry Plan.
Environmental Resources	**DRAFT ER-5.18**	**Preservation of Trees.** The Town shall require the preservation and/or replacement of trees in parking lots and in the public right-of-way per development standards.
Environmental Resources	**DRAFT ER-5.19**	**Energy Conservation Measures and Education.** The Town shall encourage energy conservation measures, such as insulation and weather-stripping, duct replacement, air sealing, high-efficiency windows and doors, cool roofs, and more, in existing structures through public education; share financial resource opportunities with Town property owners; and consider establishing financial assistance programs to for low-and moderate-income families.
Environmental Resources	**ER-5.20**	**Windsor Serving as the Energy Conservation Model.** The Town government shall be in the forefront of energy conservation efforts locally and regionally by undertaking and publicizing energy efficiency and renewable energy resource programs such as Sonoma County Energy Independence Program (SCEIP) and Property Assessed Clean Energy (PACE) and requiring all new Town buildings to be demonstration buildings and models of emerging energy and water technologies.
Environmental Resources	**ER-5.21**	**Windsor Municipal Climate Action Plan.** The Town shall implement the objectives in the most current version of the Climate Action Plan.
Environmental Resources	**DRAFT ER-5.22**	**Enhance Biogenic Biological Carbon Sequestration.** The Town shall promote landscape practices that maximize long-term carbon sequestration. When trees must be removed, the Town shall encourage replacement with plant species and landscape designs that offer equal or greater carbon-sequestration potential. Priority shall be given to long-lived, climate-appropriate tree species; native and drought-tolerant species; deep-rooted shrubs, grasses, and groundcovers; and soil restoration efforts.
Environmental Resources	**DRAFT ER-5.23**	**Water Conservation and Recycled Water Use.** In an effort to reduce greenhouse gas emissions associated with water conveyance and treatment, the Town shall support and promote reduced potable water use across municipal operations and the community. The Town shall encourage the incorporation of grey water systems and other on-site water reuse strategies in new development and, where feasible, in existing development. The Town shall support the expansion of recycled water availability and use, including storage, distribution, and infrastructure improvements, and promote the beneficial reuse of recycled water for appropriate non-potable uses such as landscape irrigation, street cleaning, and other municipal or commercial applications.
Public Health and Safety	**PHS-7.2**	**Reduce Impacts of Climate Change.** The Town shall support plans, standards, regulation, incentives, and investments to reduce the impacts of climate change on those populations most vulnerable to the impacts of climate change.
Public Health and Safety	**PHS-7.3**	**Climate Change Education.** The Town shall incorporate climate change effects and impacts into public emergency awareness and preparedness programs.
Housing	**H-8.3**	The Town shall encourage homeowners and property owners of existing residential buildings to incorporate energy and water efficient features and renewable energy facilities in structures.
Housing	**H-8.4**	Wherever appropriate, the Town shall grant flexibility during the Design Review procedures to allow development on infill parcels where adopted development standards would preclude development feasibility.
Housing	**H-39**	Water Smart Home Program. The Town shall continue to implement the Water Smart Home program to provide residents with free water use assessments.

Source: Town of Windsor. 2018. 2040 General Plan. Website: https://www.townofwindsor.ca.gov/DocumentCenter/View/21498/Final-Town-of-Windsor-2040-General-Plan_2018-06-04 (accessed October 2025).