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# Title 24 Part 11 California Green Building Standards

Ingrid Neumann
Building Standards Office
Efficiency Division

Wednesday, October 3, 2018
10:00 AM
CALIFORNIA ENERGY COMMISSION
1516 Ninth Street
1st Floor, Rosenfeld Hearing Room
Sacramento, California



## California Building Standards Code Title 24 of the California Code of Regulations

- **PART 1 CALIFORNIA ADMINISTRATIVE CODE**
- **PART 2 CALIFORNIA BUILDING CODE**
- **PART 2.5 CALIFORNIA RESIDENTIAL CODE**
- PART 3 CALIFORNIA ELECTRICAL CODE
- PART 4 CALIFORNIA MECHANICAL CODE
- PART 5 CALIFORNIA PLUMBING CODE
- **PART 6 CALIFORNIA ENERGY CODE**
- PART 7 Vacant
- PART 8 CALIFORNIA HISTORICAL BUILDING CODE
- **PART 9 CALIFORNIA FIRE CODE**
- **PART 10 CALIFORNIA EXISTING BUILDING CODE**
- PART 11 CALIFORNIA GREEN BUILDING STANDARDS CODE
- PART 12 CALIFORNIA REFERENCED STANDARDS CODE



#### Title 24 PART 11 "CALGreen"

#### CALIFORNIA GREEN BUILDING STANDARDS CODE

- **CHAPTER 1 ADMINISTRATION**
- **CHAPTER 2 DEFINITIONS**
- **CHAPTER 3 GREEN BUILDING (Scope)**
- **CHAPTER 4 RESIDENTIAL MANDATORY MEASURES**
- **CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES**
- **CHAPTER 6 REFERENCED ORGANIZATIONS AND STANDARDS**
- **CHAPTER 7 INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS**
- **CHAPTER 8 COMPLIANCE FORMS, WORKSHEETS AND REFERENCE MATERIAL**
- **APPENDIX A4 RESIDENTIAL VOLUNTARY MEASURES**
- **APPENDIX A5 NONRESIDENTIAL VOLUNTARY MEASURES**

APPENDIX A6.1 - VOLUNTARY STANDARDS FOR HEALTH FACILITIES [OSHPD 1, 2 & 4]

Mandatory
Energy Efficiency Targets
Title 24 Part 6

Voluntary
Energy Efficiency
Title 24 Part 11



# Appendix A4 Residential Voluntary Measures

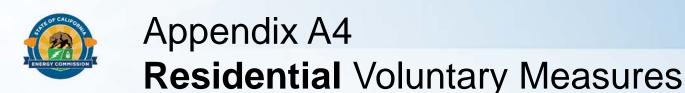
- Section A4.203.1.1.1
   Performance Approach for Newly Constructed
  - based on target EDR scores
     (no longer "Percent better than" mandatory Part 6 )

**Mandatory Title 24 Part 6** 

**Voluntary Part 11** 

Mandatory
Energy Efficiency Targets
Title 24 Part 6

Voluntary
Energy Efficiency
Title 24 Part 11



#### Required Prerequisites:

A4.203.1.1.2 Quality Insulation Installation (QII)

#### AND Choose ONE of the Prerequisites below:

- A4.203.1.2.1 Roof deck insulation, or ducts in conditioned space
- A4.203.1.2.2 High Performance Walls (HPW)
- A4.203.1.2.3 HERS-Verified Compact Hot Water Distribution System (CHWDS-H)
- A4.203.1.2.4 HERS-Verified Drain Water Heat Recovery (DWHR-H)



#### Appendix A4

#### Residential Voluntary Measures

#### A4.203.1.3.1 Tier 1.

CZ	Mixed Fuel	All-Electric
1	23	36
2	12	16
3	10	14
4	8	12
5	10	16
6	10	12
7	5	7
8	10	10
9	13	13
10	10	11
11	11	12
12	12	13
13	11	13
14	15	16
15	11	8
16	22	39

#### A4.203.1.3.2 Tier 2.

CZ	<b>Mixed Fuel</b>	All-Electric
1	13	0
2	5	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	5	0
15	0	7
16	14	10

 Section A4.204 Performance Approach for Additions has been struck



Choose ONE of the following Prerequisites for Tier 1 and TWO for Tier 2:

- A5.203.1.1.1 Outdoor lighting
- A5.203.1.1.2 Service water heating in restaurants
- A5.203.1.1.3 Warehouse Dock Seal Doors
- A5.203.1.1.4 Daylight Design
   Power Adjustments Factors (PAFs)
- A5.203.1.1.5 Exhaust Air Heat Recovery



### Appendix A5 Nonresidential Voluntary Measures

#### Section A5.203, Performance Approach

- Retain the "Percent better than" mandatory language
- Target Percentages continue to vary depending on whether lighting and/or mechanical systems are included for nonresidential building projects

• **Tier 1**: 5% or 10%

• **Tier 2**: 10% or 15%

 For high-rise residential and hotel/motel projects the target percentages were adjusted to reflect that there is no additional credit available for lighting improvements

• Tier 1: 5%

• Tier 2: 10%

### Questions?

