



**Tables for all occupancies shall be either posted on the plans or submitted as 8 1/2 x 11 as part of the drawings submission.**

To have consistency with the submission of the information required by C406 the City has created a method of providing the same information on plans across multiple disciplines. These tables were taken from the 2024 IECC for our climate region only. Determine occupancy(ies) and then find the table(s) for that occupancy and enter the points from the selected energy saving requirement until the total meets or exceeds the quantity in table C406.1.1(1). There are tables at the end that define requirements of energy consumption of equipment and lights that shall be followed. For multiple occupancies in one building read **C406.1.1** on how to handle the point totals.

**TABLE C406.1.1(1)**

**ENERGY CREDIT REQUIREMENTS BY BUILDING OCCUPANCY GROUP**

<b>BUILDING OCCUPANCY GROUP</b>	<b>CLIMATE ZONE 2B</b>
R-2, R-4 and I-1	86
I-2	38
R-1	71
B	65
A-2	75
M	84
E	57
S-1 and S-2	57
All other	33

**TABLE C406.1.1(2)**

**(Optional)LIMIT TO ENERGY EFFICIENCY CREDIT CARRYOVER FROM RENEWABLE AND LOAD MANAGEMENT CREDITS**

<b>BUILDING OCCUPANCY GROUP</b>	<b>CLIMATE ZONE 2B</b>
R-2, R-4 and I-1	5
I-2	5
R-1	5
B	6
A-2	9
M	5
E	14
S-1 and S-2	5
All other	5

For more information about this publication, contact Planning & Development at (602) 262-7811. To request a reasonable accommodation, please contact Saneeya Mir, (602) 686-6461, [Saneeya.Mir@phoenix.gov](mailto:Saneeya.Mir@phoenix.gov) TTY: Use 7-1-1.

**TABLE C406.1.2**  
 (Optional)RENEWABLE AND LOAD MANAGEMENT CREDIT REQUIREMENTS BY BUILDING OCCUPANCY GROUP

BUILDING OCCUPANCY GROUP	CLIMATE ZONE 2B
R-2, R-4 and I-1	56
I-2	28
R-1	36
B	49
A-2	9
M	47
E	47
S-1 and S-2	90
All other	52

**TABLE C406.2(1)**  
 BASE ENERGY CREDITS FOR GROUP R-2, R-4 AND I-1 OCCUPANCIES<sup>a</sup>

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	Selected point total
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	1	
E03	Reduced air leakage	<u>C406.2.1.3</u>	16	
E04	Add roof insulation	<u>C406.2.1.4</u>	1	
E05	Add wall insulation	<u>C406.2.1.5</u>	6	
E06	Improve fenestration	<u>C406.2.1.6</u>	11	

**TABLE C406.2(1)  
 BASE ENERGY CREDITS FOR GROUP R-2, R-4 AND I-1 OCCUPANCIES<sup>a</sup>**

H01	HVAC performance	<u>C406.2.2.1</u>	13	
H02	Heating efficiency	<u>C406.2.2.2</u>	x	
H03	Cooling efficiency	<u>C406.2.2.3</u>	3	
H04	Residential HVAC control	<u>C406.2.2.4</u>	25	
H05	DOAS/fan control	<u>C406.2.2.5</u>	23	
W01	SHW preheat recovery	<u>C406.2.3.1 a</u>	88	
W02	Heat pump water heater	<u>C406.2.3.1 b</u>	74	
W03	Efficient gas water heater	<u>C406.2.3.1 c</u>	55	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	8	
W05	Point of use water heaters	<u>C406.2.3.3 a</u>	x	
W06	Thermostatic bal. valves	<u>C406.2.3.3 b</u>	3	
W07	SHW heat trace system	<u>C406.2.3.3 c</u>	15	
W08	SHW submeters	<u>C406.2.3.4</u>	16	
W09	SHW flow reduction	<u>C406.2.3.5</u>	32	
W10	Shower heat recovery	<u>C406.2.3.6</u>	23	
P01	Energy monitoring	<u>C406.2.4</u>	2	
L01	Lighting performance	<u>C406.2.5.1</u>	x	
L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	1	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	4	

**TABLE C406.2(1)**  
**BASE ENERGY CREDITS FOR GROUP R-2, R-4 AND I-1 OCCUPANCIES<sup>a</sup>**

L04	Increase daylight area	<u>C406.2.5.4</u>	x	
L05	Residential light control	<u>C406.2.5.5</u>	9	
L06	Light power reduction	<u>C406.2.5.6</u>	2	
Q01	Efficient elevator	<u>C406.2.6.1</u>	5	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	18	
Q04	Fault detection	<u>C406.2.6.4</u>	2	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA =  $U$ -factor  $\times$  Area.

a. "x" indicates credit is not available in that climate zone for that measure.

**TABLE C406.2(2)**  
**BASE ENERGY CREDITS FOR GROUP I-2 OCCUPANCIES<sup>a</sup>**

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	1	
E03	Reduced air leakage	<u>C406.2.1.3</u>	8	

**TABLE C406.2(2)  
 BASE ENERGY CREDITS FOR GROUP I-2 OCCUPANCIES<sup>a</sup>**

E04	Add roof insulation	<u>C406.2.1.4</u>	1	
E05	Add wall insulation	<u>C406.2.1.5</u>	2	
E06	Improve fenestration	<u>C406.2.1.6</u>	1	
H01	HVAC performance	<u>C406.2.2.1</u>	x	
H02	Heating efficiency	<u>C406.2.2.2</u>	3	
H03	Cooling efficiency	<u>C406.2.2.3</u>	3	
H04	Residential HVAC control	<u>C406.2.2.4</u>	x	
H05	DOAS/fan control	<u>C406.2.2.5</u>	36	
W01	SHW preheat recovery	<u>C406.2.3.1</u> a	5	
W02	Heat pump water heater	<u>C406.2.3.1</u> b	2	
W03	Efficient gas water heater	<u>C406.2.3.1</u> c	3	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	1	
W05	Point of use water heaters	<u>C406.2.3.3</u> a	x	
W06	Thermostatic bal. valves	<u>C406.2.3.3</u> b	1	
W07	SHW heat trace system	<u>C406.2.3.3</u> c	2	
W08	SHW submeters	<u>C406.2.3.4</u>	x	
W09	SHW flow reduction	<u>C406.2.3.5</u>	x	
W10	Shower heat recovery	<u>C406.2.3.6</u>	1	
P01	Energy monitoring	<u>C406.2.4</u>	3	
L01	Lighting performance	<u>C406.2.5.1</u>	x	

**TABLE C406.2(2)**  
**BASE ENERGY CREDITS FOR GROUP I-2 OCCUPANCIES<sup>a</sup>**

L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	6	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	5	
L04	Increase daylight area	<u>C406.2.5.4</u>	x	
L05	Residential light control	<u>C406.2.5.5</u>	x	
L06	Light power reduction	<u>C406.2.5.6</u>	7	
Q01	Efficient elevator	<u>C406.2.6.1</u>	2	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	x	
Q04	Fault detection	<u>C406.2.6.4</u>	3	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA = U-Factor × Area.

a. "x" indicates credit is not available in that climate zone for that measure.

**TABLE C406.2(3)**  
**BASE ENERGY CREDITS FOR GROUP R-1 OCCUPANCIES<sup>a</sup>**

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	3	
E03	Reduced air leakage	<u>C406.2.1.3</u>	16	

**TABLE C406.2(3)  
 BASE ENERGY CREDITS FOR GROUP R-1 OCCUPANCIES<sup>a</sup>**

E04	Add roof insulation	<u>C406.2.1.4</u>	1	
E05	Add wall insulation	<u>C406.2.1.5</u>	4	
E06	Improve fenestration	<u>C406.2.1.6</u>	3	
H01	HVAC performance	<u>C406.2.2.1</u>	13	
H02	Heating efficiency	<u>C406.2.2.2</u>	x	
H03	Cooling efficiency	<u>C406.2.2.3</u>	2	
H04	Residential HVAC control	<u>C406.2.2.4</u>	x	
H05	DOAS/fan control	<u>C406.2.2.5</u>	23	
W01	SHW preheat recovery	<u>C406.2.3.1 a</u>	27	
W02	Heat pump water heater	<u>C406.2.3.1 b</u>	22	
W03	Efficient gas water heater	<u>C406.2.3.1 c</u>	17	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	4	
W05	Point of use water heaters	<u>C406.2.3.3 a</u>	x	
W06	Thermostatic bal. valves	<u>C406.2.3.3 b</u>	2	
W07	SHW heat trace system	<u>C406.2.3.3 c</u>	7	
W08	SHW submeters	<u>C406.2.3.4</u>	x	
W09	SHW flow reduction	<u>C406.2.3.5</u>	10	
W10	Shower heat recovery	<u>C406.2.3.6</u>	7	
P01	Energy monitoring	<u>C406.2.4</u>	2	

**TABLE C406.2(3)  
 BASE ENERGY CREDITS FOR GROUP R-1 OCCUPANCIES<sup>a</sup>**

L01	Lighting performance	<u>C406.2.5.1</u>	x	
L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	1	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	3	
L04	Increase daylight area	<u>C406.2.5.4</u>	x	
L05	Residential light control	<u>C406.2.5.5</u>	x	
L06	Light power reduction	<u>C406.2.5.6</u>	2	
Q01	Efficient elevator	<u>C406.2.6.1</u>	2	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	11	
Q04	Fault detection	<u>C406.2.6.4</u>	2	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA = U-Factor × Area.

a. "x" indicates credit is not available in that climate zone for that measure.

**TABLE C406.2(4)  
 BASE ENERGY CREDITS FOR GROUP B OCCUPANCIES<sup>a</sup>**

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	3	
E03	Reduced air leakage	<u>C406.2.1.3</u>	2	

**TABLE C406.2(4)  
 BASE ENERGY CREDITS FOR GROUP B OCCUPANCIES<sup>a</sup>**

E04	Add roof insulation	<u>C406.2.1.4</u>	2	
E05	Add wall insulation	<u>C406.2.1.5</u>	4	
E06	Improve fenestration	<u>C406.2.1.6</u>	7	
H01	HVAC performance	<u>C406.2.2.1</u>	17	
H02	Heating efficiency	<u>C406.2.2.2</u>	x	
H03	Cooling efficiency	<u>C406.2.2.3</u>	3	
H04	Residential HVAC control	<u>C406.2.2.4</u>	x	
H05	DOAS/fan control	<u>C406.2.2.5</u>	25	
W01	SHW preheat recovery	<u>C406.2.3.1 a</u>	11	
W02	Heat pump water heater	<u>C406.2.3.1 b</u>	4	
W03	Efficient gas water heater	<u>C406.2.3.1 c</u>	7	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	4	
W05	Point of use water heaters	<u>C406.2.3.3 a</u>	18	
W06	Thermostatic bal. valves	<u>C406.2.3.3 b</u>	1	
W07	SHW heat trace system	<u>C406.2.3.3 c</u>	5	
W08	SHW submeters	<u>C406.2.3.4</u>	x	
W09	SHW flow reduction	<u>C406.2.3.5</u>	x	
W10	Shower heat recovery	<u>C406.2.3.6</u>	x	
P01	Energy monitoring	<u>C406.2.4</u>	3	

**TABLE C406.2(4)**  
**BASE ENERGY CREDITS FOR GROUP B OCCUPANCIES<sup>a</sup>**

L01	Lighting performance	<u>C406.2.5.1</u>	x	
L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	6	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	6	
L04	Increase daylight area	<u>C406.2.5.4</u>	8	
L05	Residential light control	<u>C406.2.5.5</u>	x	
L06	Light power reduction	<u>C406.2.5.6</u>	8	
Q01	Efficient elevator	<u>C406.2.6.1</u>	5	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	x	
Q04	Fault detection	<u>C406.2.6.4</u>	2	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA = U-Factor × Area.

a. "x" indicates credit is not available in that climate zone for that measure.

**TABLE C406.2(5)**  
**BASE ENERGY CREDITS FOR GROUP A-2 OCCUPANCIES<sup>a</sup>**

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	3	

**TABLE C406.2(5)  
 BASE ENERGY CREDITS FOR GROUP A-2 OCCUPANCIES<sup>a</sup>**

E03	Reduced air leakage	<u>C406.2.1.3</u>	2	
E04	Add roof insulation	<u>C406.2.1.4</u>	2	
E05	Add wall insulation	<u>C406.2.1.5</u>	4	
E06	Improve fenestration	<u>C406.2.1.6</u>	7	
H01	HVAC performance	<u>C406.2.2.1</u>	17	
H02	Heating efficiency	<u>C406.2.2.2</u>	x	
H03	Cooling efficiency	<u>C406.2.2.3</u>	3	
H04	Residential HVAC control	<u>C406.2.2.4</u>	x	
H05	DOAS/fan control	<u>C406.2.2.5</u>	25	
W01	SHW preheat recovery	<u>C406.2.3.1</u> a	11	
W02	Heat pump water heater	<u>C406.2.3.1</u> b	4	
W03	Efficient gas water heater	<u>C406.2.3.1</u> c	7	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	4	
W05	Point of use water heaters	<u>C406.2.3.3</u> a	18	
W06	Thermostatic bal. valves	<u>C406.2.3.3</u> b	1	
W07	SHW heat trace system	<u>C406.2.3.3</u> c	5	
W08	SHW submeters	<u>C406.2.3.4</u>	x	
W09	SHW flow reduction	<u>C406.2.3.5</u>	x	
W10	Shower heat recovery	<u>C406.2.3.6</u>	x	
P01	Energy monitoring	<u>C406.2.4</u>	3	

**TABLE C406.2(5)  
 BASE ENERGY CREDITS FOR GROUP A-2 OCCUPANCIES<sup>a</sup>**

L01	Lighting performance	<u>C406.2.5.1</u>	x	
L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	6	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	6	
L04	Increase daylight area	<u>C406.2.5.4</u>	8	
L05	Residential light control	<u>C406.2.5.5</u>	x	
L06	Light power reduction	<u>C406.2.5.6</u>	8	
Q01	Efficient elevator	<u>C406.2.6.1</u>	5	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	x	
Q04	Fault detection	<u>C406.2.6.4</u>	2	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA = U-Factor × Area.

a. "x" indicates credit is not available in that climate zone for that measure.

**TABLE C406.2(6)  
 BASE ENERGY CREDITS FOR GROUP M OCCUPANCIES<sup>a</sup>**

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	3	

**TABLE C406.2(6)  
 BASE ENERGY CREDITS FOR GROUP M OCCUPANCIES<sup>a</sup>**

E03	Reduced air leakage	<u>C406.2.1.3</u>	16	
E04	Add roof insulation	<u>C406.2.1.4</u>	1	
E05	Add wall insulation	<u>C406.2.1.5</u>	4	
E06	Improve fenestration	<u>C406.2.1.6</u>	3	
H01	HVAC performance	<u>C406.2.2.1</u>	13	
H02	Heating efficiency	<u>C406.2.2.2</u>	x	
H03	Cooling efficiency	<u>C406.2.2.3</u>	2	
H04	Residential HVAC control	<u>C406.2.2.4</u>	x	
H05	DOAS/fan control	<u>C406.2.2.5</u>	23	
W01	SHW preheat recovery	<u>C406.2.3.1</u> a	27	
W02	Heat pump water heater	<u>C406.2.3.1</u> b	22	
W03	Efficient gas water heater	<u>C406.2.3.1</u> c	17	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	4	
W05	Point of use water heaters	<u>C406.2.3.3</u> a	x	
W06	Thermostatic bal. valves	<u>C406.2.3.3</u> b	2	
W07	SHW heat trace system	<u>C406.2.3.3</u> c	7	
W08	SHW submeters	<u>C406.2.3.4</u>	x	
W09	SHW flow reduction	<u>C406.2.3.5</u>	10	
W10	Shower heat recovery	<u>C406.2.3.6</u>	7	
P01	Energy monitoring	<u>C406.2.4</u>	2	

**TABLE C406.2(6)  
 BASE ENERGY CREDITS FOR GROUP M OCCUPANCIES<sup>a</sup>**

L01	Lighting performance	<u>C406.2.5.1</u>	x	
L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	1	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	3	
L04	Increase daylight area	<u>C406.2.5.4</u>	x	
L05	Residential light control	<u>C406.2.5.5</u>	x	
L06	Light power reduction	<u>C406.2.5.6</u>	2	
Q01	Efficient elevator	<u>C406.2.6.1</u>	2	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	11	
Q04	Fault detection	<u>C406.2.6.4</u>	2	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA = U-Factor × Area.

a. "x" indicates credit is not available in that climate zone for that measure

**TABLE C406.2(7)  
 BASE ENERGY CREDITS FOR GROUP E OCCUPANCIES<sup>a</sup>**

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	13	

**TABLE C406.2(7)  
 BASE ENERGY CREDITS FOR GROUP E OCCUPANCIES<sup>a</sup>**

E03	Reduced air leakage	<u>C406.2.1.3</u>	5	
E04	Add roof insulation	<u>C406.2.1.4</u>	7	
E05	Add wall insulation	<u>C406.2.1.5</u>	6	
E06	Improve fenestration	<u>C406.2.1.6</u>	11	
H01	HVAC performance	<u>C406.2.2.1</u>	21	
H02	Heating efficiency	<u>C406.2.2.2</u>	x	
H03	Cooling efficiency	<u>C406.2.2.3</u>	4	
H04	Residential HVAC control	<u>C406.2.2.4</u>	x	
H05	DOAS/fan control	<u>C406.2.2.5</u>	34	
W01	SHW preheat recovery	<u>C406.2.3.1 a</u>	11	
W02	Heat pump water heater	<u>C406.2.3.1 b</u>	7	
W03	Efficient gas water heater	<u>C406.2.3.1 c</u>	7	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	4	
W05	Point of use water heaters	<u>C406.2.3.3 a</u>	5	
W06	Thermostatic bal. valves	<u>C406.2.3.3 b</u>	1	
W07	SHW heat trace system	<u>C406.2.3.3 c</u>	5	
W08	SHW submeters	<u>C406.2.3.4</u>	x	
W09	SHW flow reduction	<u>C406.2.3.5</u>	x	
W10	Shower heat recovery	<u>C406.2.3.6</u>	3	
P01	Energy monitoring	<u>C406.2.4</u>	3	

**TABLE C406.2(7)**  
**BASE ENERGY CREDITS FOR GROUP E OCCUPANCIES<sup>a</sup>**

L01	Lighting performance	<u>C406.2.5.1</u>	x	
L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	6	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	6	
L04	Increase daylight area	<u>C406.2.5.4</u>	7	
L05	Residential light control	<u>C406.2.5.5</u>	x	
L06	Light power reduction	<u>C406.2.5.6</u>	8	
Q01	Efficient elevator	<u>C406.2.6.1</u>	5	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	x	
Q04	Fault detection	<u>C406.2.6.4</u>	3	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA = U-Factor × Area.

a. "x" indicates measure is not available in that climate zone for that measure.

**TABLE C406.2(8)**  
**BASE ENERGY CREDITS FOR GROUP S-1 AND S-2 OCCUPANCIES<sup>a</sup>**

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	9	

**TABLE C406.2(8)  
 BASE ENERGY CREDITS FOR GROUP S-1 AND S-2 OCCUPANCIES<sup>a</sup>**

E03	Reduced air leakage	<u>C406.2.1.3</u>	3	
E04	Add roof insulation	<u>C406.2.1.4</u>	11	
E05	Add wall insulation	<u>C406.2.1.5</u>	10	
E06	Improve fenestration	<u>C406.2.1.6</u>	6	
H01	HVAC performance	<u>C406.2.2.1</u>	x	
H02	Heating efficiency	<u>C406.2.2.2</u>	x	
H03	Cooling efficiency	<u>C406.2.2.3</u>	3	
H04	Residential HVAC control	<u>C406.2.2.4</u>	x	
H05	DOAS/fan control	<u>C406.2.2.5</u>	27	
W01	SHW preheat recovery	<u>C406.2.3.1 a</u>	10	
W02	Heat pump water heater	<u>C406.2.3.1 b</u>	2	
W03	Efficient gas water heater	<u>C406.2.3.1 c</u>	5	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	3	
W05	Point of use water heaters	<u>C406.2.3.3 a</u>	x	
W06	Thermostatic bal. valves	<u>C406.2.3.3 b</u>	1	
W07	SHW heat trace system	<u>C406.2.3.3 c</u>	4	
W08	SHW submeters	<u>C406.2.3.4</u>	x	
W09	SHW flow reduction	<u>C406.2.3.5</u>	x	
W10	Shower heat recovery	<u>C406.2.3.6</u>	x	
P01	Energy monitoring	<u>C406.2.4</u>	6	

**TABLE C406.2(8)**  
**BASE ENERGY CREDITS FOR GROUP S-1 AND S-2 OCCUPANCIES<sup>a</sup>**

L01	Lighting performance	<u>C406.2.5.1</u>	x	
L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	14	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	14	
L04	Increase daylight area	<u>C406.2.5.4</u>	17	
L05	Residential light control	<u>C406.2.5.5</u>	x	
L06	Light power reduction	<u>C406.2.5.6</u>	17	
Q01	Efficient elevator	<u>C406.2.6.1</u>	18	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	x	
Q04	Fault detection	<u>C406.2.6.4</u>	2	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA = U-Factor × Area.

a. "x" indicates credit is not available in that climate zone for that measure.

**TABLE C406.2(9)**  
**BASE ENERGY CREDITS FOR OTHER OCCUPANCIES<sup>a, b</sup>**

ID	ENERGY CREDIT MEASURE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	<u>Enter the number points obtained by ID</u>
E01	Envelope performance	<u>C406.2.1.1</u>	<u>Determined in accordance with section C406.2.1.1</u>	
E02	UA reduction (15%)	<u>C406.2.1.2</u>	5	

**TABLE C406.2(9)**  
**BASE ENERGY CREDITS FOR OTHER OCCUPANCIES<sup>a, b</sup>**

E03	Reduced air leakage	<u>C406.2.1.3</u>	7	
E04	Add roof insulation	<u>C406.2.1.4</u>	4	
E05	Add wall insulation	<u>C406.2.1.5</u>	6	
E06	Improve fenestration	<u>C406.2.1.6</u>	6	
H01	HVAC performance	<u>C406.2.2.1</u>	x	
H02	Heating efficiency	<u>C406.2.2.2</u>	x	
H03	Cooling efficiency	<u>C406.2.2.3</u>	3	
H04	Residential HVAC control	<u>C406.2.2.4</u>	x	
H05	DOAS/fan control	<u>C406.2.2.5</u>	28	
W01	SHW preheat recovery	<u>C406.2.3.1 a</u>	26	
W02	Heat pump water heater	<u>C406.2.3.1 b</u>	17	
W03	Efficient gas water heater	<u>C406.2.3.1 c</u>	16	
W04	SHW pipe insulation	<u>C406.2.3.2</u>	4	
W05	Point of use water heaters	<u>C406.2.3.3 a</u>	12	
W06	Thermostatic bal. valves	<u>C406.2.3.3 b</u>	1	
W07	SHW heat trace system	<u>C406.2.3.3 c</u>	6	
W08	SHW submeters	<u>C406.2.3.4</u>	x	
W09	SHW flow reduction	<u>C406.2.3.5</u>	x	
W10	Shower heat recovery	<u>C406.2.3.6</u>	9	
P01	Energy monitoring	<u>C406.2.4</u>	3	

**TABLE C406.2(9)**  
**BASE ENERGY CREDITS FOR OTHER OCCUPANCIES<sup>a, b</sup>**

L01	Lighting performance	<u>C406.2.5.1</u>	x	
L02	Lighting dimming & tuning	<u>C406.2.5.2</u>	6	
L03	Increase occp. sensor	<u>C406.2.5.3</u>	7	
L04	Increase daylight area	<u>C406.2.5.4</u>	x	
L05	Residential light control	<u>C406.2.5.5</u>	x	
L06	Light power reduction	<u>C406.2.5.6</u>	8	
Q01	Efficient elevator	<u>C406.2.6.1</u>	5	
Q02	Commercial kitchen equip.	<u>C406.2.6.2</u>	x	
Q03	Residential kitchen equip.	<u>C406.2.6.3</u>	x	
Q04	Fault detection	<u>C406.2.6.4</u>	2	

DOAS = Dedicated Outside Air System; HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water; UA =  $U$ -Factor  $\times$  Area.

- a. "x" indicates credit is not available in that climate zone for that measure.
- b. Other occupancy groups include all groups except Groups A-2, B, E, I, M, S and R.

**Table C406.2.1.6**  
**VERTICAL FENESTRATION REQUIREMENTS FOR ENERGY CREDIT E06**

APPLICABLE CLIMATE ZONE	MAXIMUM U-FACTOR		MAXIMUM SHGC	MINIMUM VT
	Fixed	Operable		
0-2	0.45	0.52	0.21	0.28
3	0.33	0.44	0.23	0.3
4-5	0.31	0.38	0.34	0.41
6-7	0.26	0.32	0.38	0.44
8	0.24	0.28	0.38	0.44

**TABLE C406.2.2.5**  
**DOAS ENERGY RECOVERY ADJUSTMENTS**

<i>ERE<sub>adj</sub></i> BASED ON LOWER OF ACTUAL HEATING OR COOLING ENERGY RECOVERY EFFECTIVENESS WHERE REQUIRED		
Cooling <i>Err</i> Is at Least	Heating Enthalpy Recovery Ratio or Sensible Energy Recovery Ratio Is at Least	Energy Recovery Effectiveness Adjustment ( <i>ERE<sub>adj</sub></i> )
65%	65%	1.00
60%	60%	0.67
55%	55% <sup>a</sup>	0.33
50%	50% <sup>a</sup>	0.25

a. In climate zones where heating recovery is required in Section C403, a heating recovery effectiveness below 60 percent is not allowed for dwelling units.

**TABLE C406.2.3.5**  
**MAXIMUM FLOW RATING FOR RESIDENTIAL PLUMBING FIXTURES WITH HEATED WATER**

PLUMBING FIXTURE	MAXIMUM FLOW RATE
Faucet for private lavatory, <sup>a</sup> hand sinks, or bar sinks	1.2 gpm at 60 psi
Faucet for residential kitchen sink <sup>a, b, c</sup>	1.8 gpm at 60 psi
Shower head (including hand-held shower spray) <sup>a, b, d</sup>	1.8 gpm at 80 psi

**For SI: 1 gallon per minute = 3.785 L/min, 1 pound per square inch = 6.89 kPa.**

- a. Showerheads, lavatory faucets and kitchen faucets are subject to US federal requirements listed in 10 CFR 430.32(o)–(p).
- b. Maximum flow allowed is less than required by flow rates listed in 10 CFR 430.32(o)–(p) for showerheads and kitchen faucets.

- c. Residential kitchen faucets may temporarily increase the flow above the maximum rate, but not above 2.2 gallons per minute at 60 psi (8.3 L/min at 414 kPa), and must default to the maximum flow rate listed.
- d. Where a shower is served by multiple shower heads, the combined flow rate of all shower heads controlled by a single valve shall not exceed the maximum flow rate listed or the shower shall be designed to allow only one shower head to operate at a time.

**TABLE C406.2.5.4  
 ADDED DAYLIGHTING PARAMETERS**

BUILDING-USE TYPE	DLA <sub>TYP</sub>	DLA <sub>MAX</sub>
Group B; ≤ 5,000 ft <sup>2</sup> (460 m <sup>2</sup> )	10%	20%
Group B; > 5,000 ft <sup>2</sup> (460 m <sup>2</sup> )	21%	31%
Group M; with ≤ 1,000 ft <sup>2</sup> (900 m <sup>2</sup> ) roof area	0%	20%
Group M; with > 1,000 ft <sup>2</sup> (900 m <sup>2</sup> ) roof area	60%	80%
Group E; education	42%	52%
Groups S-1 and S-2; warehouse	50%	70%
Groups S-1 and S-2; other than warehouse	NA	NA

NA = Not Available.

**TABLE C406.2.6.2(1)  
 MINIMUM EFFICIENCY REQUIREMENTS: COMMERCIAL FRYERS**

	HEAVY-LOAD COOKING ENERGY EFFICIENCY	IDLE ENERGY RATE	TEST PROCEDURE
Standard open deep-fat gas fryers	≥ 50%	≤ 9,000 Btu/h	<a href="#">ASTM F1361</a>
Standard open deep-fat electric fryers	≥ 83%	≤ 800 watts	
Large vat open deep-fat gas fryers	≥ 50%	≤ 12,000 Btu/h	<a href="#">ASTM F2144</a>
Large vat open deep-fat electric fryers	≥ 80%	≤ 1,100 watts	

For SI: 1 British thermal unit per hour = 0.293 watts.

**TABLE C406.2.6.2(2)  
 MINIMUM EFFICIENCY REQUIREMENTS: COMMERCIAL STEAM COOKERS**

FUEL TYPE	PAN CAPACITY	COOKING ENERGY EFFICIENCY <sup>a</sup>	IDLE ENERGY RATE	TEST PROCEDURE
Electric steam	3-pan	50%	400 watts	<a href="#">ASTM F1484</a>
	4-pan	50%	530 watts	
	5-pan	50%	670 watts	
	6-pan and larger	50%	800 watts	
Gas steam	3-pan	38%	6,250 Btu/h	
	4-pan	38%	8,350 Btu/h	
	5-pan	38%	10,400 Btu/h	
	6-pan and larger	38%	12,500 Btu/h	

For SI: 1 British thermal unit per hour = 0.293 watts.

- a. Cooking energy efficiency is based on heavy-load (potato) cooking capacity.

**TABLE C406.2.6.2(3)**  
**MINIMUM EFFICIENCY REQUIREMENTS: COMMERCIAL DISHWASHERS**

MACHINE TYPE	HIGH-TEMPERATURE EFFICIENCY REQUIREMENTS			LOW-TEMPERATURE EFFICIENCY REQUIREMENTS			TEST PROCEDURE
	Idle Energy Rate <sup>a</sup>	Washing Energy	Water Consumption <sup>b</sup>	Idle Energy Rate <sup>a</sup>	Washing Energy	Water Consumption <sup>b</sup>	
Under counter	≤ 0.30 kW	≤ 0.35 kWh/rack	≤ 0.86 GPR (≤ 3.3 LPR)	≤ 0.25 kW	≤ 0.15 kWh/rack	≤ 1.19 GPR	<a href="#">ASTM F1696</a>  <a href="#">ASTM F1920</a>
						≤ 4.5 LPR	
Stationary single-tank door	≤ 0.55 kW	≤ 0.35 kWh/rack	≤ 0.89 GPR (≤ 3.4 LPR)	≤ 0.30 kW	≤ 0.15 kWh/rack	≤ 1.18 GPR	
						≤ 4.47 LPR	
Pot, pan and utensil	≤ 0.90 kW	kWh/rack ≤ 0.55 + 0.05 × SFrackc (≤ 0.55 + 0.0046 × SMrackc)	≤ 0.58 GPSF (≤ 2.2 LPSM)	NA	NA	NA	
Single-tank conveyor	≤ 1.20 kW	≤ 0.36 kWh/rack	≤ 0.70 GPR (≤ 2.6 LPR)	≤ 0.85 kW	≤ 0.16 kWh/rack	≤ 0.79 GPR	
						≤ 3.0 LPR	
Multiple-tank conveyor	≤ 1.85 kW	≤ 0.36 kWh/rack	≤ 0.54 GPR (≤ 2.0 LPR)	≤ 1.00 kW	≤ 0.22 kWh/rack	≤ 0.54 GPR	
						≤ 2.0 LPR	
Single-tank flight type	Reported	Reported	GPH ≤ 2.975c + 55.0 (LPH ≤ 0.276d + 208)	NA	NA	NA	
Multiple-tank flight type	Reported	Reported	GPH ≤ 4.96c + 17.00 (LPH ≤ 0.461d + 787)	NA	NA	NA	

- a. Idle results should be measured with the door closed and represent the total idle energy consumed by the machine, including all tank heaters and controls. The most energy consumptive configuration in the product family shall be selected to test the idle energy rate. Booster heater (internal or external) energy consumption shall be measured and reported separately, if possible, per ASTM F1696 and ASTM F1920, Sections 10.8 and 10.9, respectively. However, if booster energy cannot be measured separately, it will be included in the idle energy rate measurements.

- b. GPR = gallons per rack, LPR = liters per rack, GPSF = gallons per square foot of rack, LPSM = liters per square meter of rack, GPH = gallons per hour, c = [maximum conveyor belt speed (feet/minute)] × [conveyor belt width (feet)], LPH = liters per hour, d = [maximum conveyor belt speed (m/minute)] × [conveyor belt width (m)].
- c. Pot, pan and utensil (PPU) washing energy is still in the format kWh/rack when evaluated; SF rack (SM rack) is square feet of rack area (square meters of rack area), the same as in the PPU water consumption metric.

**TABLE C406.2.6.2(4)**  
**MINIMUM EFFICIENCY REQUIREMENTS: COMMERCIAL OVENS**

FUEL TYPE	CLASSIFICATION	IDLE RATE	COOKING ENERGY EFFICIENCY, %	TEST PROCEDURE
<b>Convection Ovens</b>				
Gas	Full-size	≤ 12,000 Btu/h	≥ 46	ASTM F1496
Electric	Half-size	≤ 1.0 kW	≥ 71	
Electric	Full-size	≤ 1.60 kW		
<b>Combination Ovens</b>				
Gas	Steam mode	≤ 200 Pa + 6,511 Btu/h	≥ 41	<a href="#">ASTM F2861</a>
	Convection mode	≤ 150 Pa + 5,425 Btu/h	≥ 56	
Electric	Steam mode	≤ 0.133 Pa + 0.6400 kW	≥ 55	
	Convection mode	≤ 0.080 Pa + 0.4989 kW	≥ 76	
<b>Rack Ovens</b>				
Gas	Single	≤ 25,000 Btu/h	≥ 48	<a href="#">ASTM F2093</a>
	Double	≤ 30,000 Btu/h	≥ 52	

For SI: 1 British thermal unit per hour = 0.293 watts.

- a. P = Pan capacity: the number of steam table pans the combination oven is able to accommodate in accordance with [ASTM F1495](#)

The City of Phoenix removed the requirement for renewable energy. The following tables and sections are optional.

**TABLE C406.3(1)**  
**RENEWABLE AND LOAD MANAGEMENT CREDITS FOR GROUP R-2, R-4 AND I-1 OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	20	
G01	Lighting load management	<a href="#">C406.3.2</a>	16	
G02	HVAC load management	<a href="#">C406.3.3</a>	37	
G03	Automated shading	<a href="#">C406.3.4</a>	13	
G04	Electric energy storage	<a href="#">C406.3.5</a>	13	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	21	
G06	SHW energy storage	<a href="#">C406.3.7</a>	19	
G07	Building thermal mass	<a href="#">C406.3.8</a>	28	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.  
 x = Credits excluded from this building use type and climate zone.

**TABLE C406.3(2)**  
**RENEWABLE AND LOAD MANAGEMENT CREDITS FOR GROUP I-2 OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	8	
G01	Lighting load management	<a href="#">C406.3.2</a>	12	
G02	HVAC load management	<a href="#">C406.3.3</a>	21	
G03	Automated shading	<a href="#">C406.3.4</a>	x	
G04	Electric energy storage	<a href="#">C406.3.5</a>	15	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	19	
G06	SHW energy storage	<a href="#">C406.3.7</a>	4	
G07	Building thermal mass	<a href="#">C406.3.8</a>	25	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.  
 x = Credits excluded from this building use type and climate zone.

**TABLE C406.3(3)**  
**RENEWABLE AND LOAD MANAGEMENT CREDITS FOR GROUP R-1 OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	11	
G01	Lighting load management	<a href="#">C406.3.2</a>	14	
G02	HVAC load management	<a href="#">C406.3.3</a>	x	
G03	Automated shading	<a href="#">C406.3.4</a>	2	
G04	Electric energy storage	<a href="#">C406.3.5</a>	13	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	24	
G06	SHW energy storage	<a href="#">C406.3.7</a>	29	
G07	Building thermal mass	<a href="#">C406.3.8</a>	24	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.  
 x = Credits excluded from this building use type and climate zone.

**TABLE C406.3(4)**  
**RENEWABLE AND LOAD MANAGEMENT CREDITS FOR GROUP B OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	19	
G01	Lighting load management	<a href="#">C406.3.2</a>	11	
G02	HVAC load management	<a href="#">C406.3.3</a>	3	
G03	Automated shading	<a href="#">C406.3.4</a>	8	
G04	Electric energy storage	<a href="#">C406.3.5</a>	16	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	24	
G06	SHW energy storage	<a href="#">C406.3.7</a>	6	
G07	Building thermal mass	<a href="#">C406.3.8</a>	9	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.  
 x = Credits excluded from this building use type and climate zone.

**TABLE C406.3(5)**  
**RENEWABLE AND LOAD MANAGEMENT CREDITS FOR A-2 OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	2	
G01	Lighting load management	<a href="#">C406.3.2</a>	5	
G02	HVAC load management	<a href="#">C406.3.3</a>	26	
G03	Automated shading	<a href="#">C406.3.4</a>	x	
G04	Electric energy storage	<a href="#">C406.3.5</a>	5	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	10	
G06	SHW energy storage	<a href="#">C406.3.7</a>	16	
G07	Building thermal mass	<a href="#">C406.3.8</a>	12	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.  
 x = Credits excluded from this building use type and climate zone.

**TABLE C406.3(6)**  
**RENEWABLE AND LOAD MANAGEMENT CREDITS FOR GROUP M OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	12	
G01	Lighting load management	<a href="#">C406.3.2</a>	19	
G02	HVAC load management	<a href="#">C406.3.3</a>	6	
G03	Automated shading	<a href="#">C406.3.4</a>	13	
G04	Electric energy storage	<a href="#">C406.3.5</a>	12	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	31	
G06	SHW energy storage	<a href="#">C406.3.7</a>	4	
G07	Building thermal mass	<a href="#">C406.3.8</a>	12	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.  
 x = Credits excluded from this building use type and climate zone.

**TABLE C406.3(7)**  
**RENEWABLE AND LOAD MANAGEMENT CREDITS FOR GROUP E OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	16	
G01	Lighting load management	<a href="#">C406.3.2</a>	15	
G02	HVAC load management	<a href="#">C406.3.3</a>	31	
G03	Automated shading	<a href="#">C406.3.4</a>	17	
G04	Electric energy storage	<a href="#">C406.3.5</a>	21	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	32	
G06	SHW energy storage	<a href="#">C406.3.7</a>	6	
G07	Building thermal mass	<a href="#">C406.3.8</a>	28	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.  
 x = Credits excluded from this building use type and climate zone.

**TABLE C406.3(8)**  
**RENEWABLE AND LOAD MANAGEMENT CREDITS FOR GROUP S-1 AND S-2 OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	53	
G01	Lighting load management	<a href="#">C406.3.2</a>	35	
G02	HVAC load management	<a href="#">C406.3.3</a>	36	
G03	Automated shading	<a href="#">C406.3.4</a>	x	
G04	Electric energy storage	<a href="#">C406.3.5</a>	44	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	14	
G06	SHW energy storage	<a href="#">C406.3.7</a>	3	
G07	Building thermal mass	<a href="#">C406.3.8</a>	29	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.  
 x indicates measure is not available for building occupancy in that climate zone

**TABLE C406.3(9)  
 RENEWABLE AND LOAD MANAGEMENT CREDITS FOR OTHER<sup>a</sup> OCCUPANCIES**

ID	ENERGY CREDIT ABBREVIATED TITLE	SECTION	CLIMATE ZONE	SELECTED POINT TOTAL
			2B	Enter the number points obtained by ID
R01	Renewable energy	<a href="#">C406.3.1</a>	18	
G01	Lighting load management	<a href="#">C406.3.2</a>	16	
G02	HVAC load management	<a href="#">C406.3.3</a>	23	
G03	Automated shading	<a href="#">C406.3.4</a>	9	
G04	Electric energy storage	<a href="#">C406.3.5</a>	17	
G05	Cooling energy storage	<a href="#">C406.3.6</a>	22	
G06	SHW energy storage	<a href="#">C406.3.7</a>	11	
G07	Building thermal mass	<a href="#">C406.3.8</a>	21	

HVAC = Heating, Ventilation and Air Conditioning; SHW = Service Hot Water.

a. Other occupancy groups include all Groups except for Groups A-2, B, E, I, M and R.

**TABLE C406.3.3  
 ENERGY CREDIT ADJUSTMENT BASED ON USE OF VENTILATION SHIFT OR DEMAND RESPONSE**

DEMAND RESPONSE SIGNAL AVAILABLE <sup>a</sup>	DEMAND RESPONSE REQUIRED BY SECTION C403.4.6.1 <sup>b</sup>	INCLUDES VENTILATION SHIFT <sup>c</sup>	<i>EC<sub>G02_adj</sub></i>
No	No	Yes	100%
No	Yes	Yes	80%
Yes	No	Yes	80%
Yes	Yes	Yes	40%
No	No	No	70%
No	Yes	No	50%
Yes	No	No	50%
Yes	Yes	No	0%

a. "Demand Response Signal Available" is "Yes" where a controlling entity other than the owner makes a demand response signal available to the building.

b. Where the exception is invoked in Section C403.4.6.1 for buildings that comply with Load Management measure G02, then "Demand Response Required" is "Yes."

c. Ventilation shift controls in accordance with Section C406.3.3, Item 3.

**TABLE C406.3.7  
 ENERGY CREDIT ADJUSTMENT BASED ON USE OF HEAT PUMP WATER HEATER OR  
 DEMAND RESPONSE**

<b>DEMAND RESPONSE                  READY PER SECTION                  C404.10</b>	<b>DEMAND RESPONSE                  SIGNAL AVAILABLE<sup>a</sup></b>	<b>HAS HPWH</b>	<b><i>EC</i><sub>GO6_adj</sub><sup>b</sup></b>
No	NA	No	100%
No	NA	Yes	33%
Yes	No	No	50%
Yes	No	Yes	17%
Yes	Yes	NA	0%

**HPWH = Heat Pump Water Heater, NA = Not available.**

- a. "Demand Response Signal Available" is "Yes" where a controlling entity currently makes a demand response signal available to the building.
- b. The lower values of *EC*<sub>GO6\_adj</sub> in this column apply where not less than 67 percent of the whole-building design end use service water heating requirements are met using only heat pump heating at the conditions described in Section C406.2.3.1.2.