

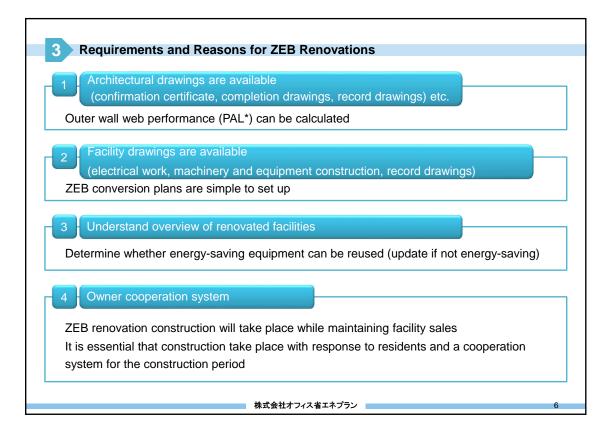
			Floor Area		Age	Region	Reduction Rate (%)	
	Name of Building	Year	(㎡)	Use	(years)	Class	Not incl. PV	Incl. PV
1	Home Center Brico Kera Store	2014	2,481	Market	19	7	51.4	52.9
2	Onomiso Special Elderly Nursing Home	"	2,765	Nursing Home	22	6	51.4	54.7
3	Aonoyama Special Elderly Nursing Home	2016	3,601	Nursing Home	23	6	57.1	62.2
4	Home Center Brico Sanbashi Store	"	3,753	Market	19	7	57.2	62.5
5	Yamasaki Orthopedic Hospital	2016-2017	4,193	Hospital	44	5	51.6	52.8
6	Sawarabi Long-term Care Welfare Center	2017	3,927	Nursing Home	23	7	52.3	54.3
7	Tosa Seifuen Special Elderly Nursing Home	"	4,046	Nursing Home	17	7	53.9	56.8
8	Kochi Joto Hospital	2017-2018	10,716	Hospital	36	7	51.5	52.2
9	Joseikan	2018	11,944	Hotel	24	7	55.5	56.0

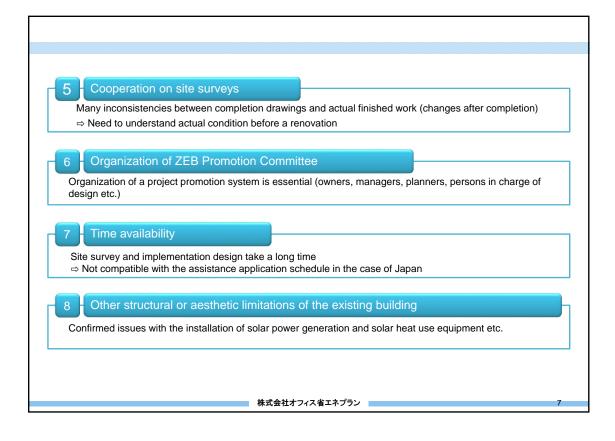
* Of the 19 ZEB cases from the 2014 supplementary budget to 2018, 9, or about 50% were ZEB renovations of existing buildings

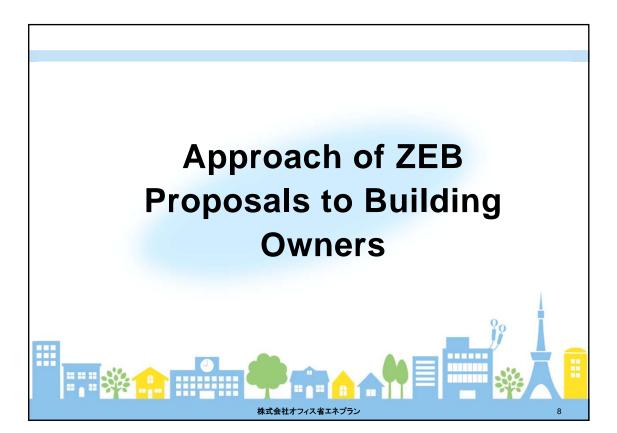
* ZEB renovations are possible on existing buildings, regardless of the building use

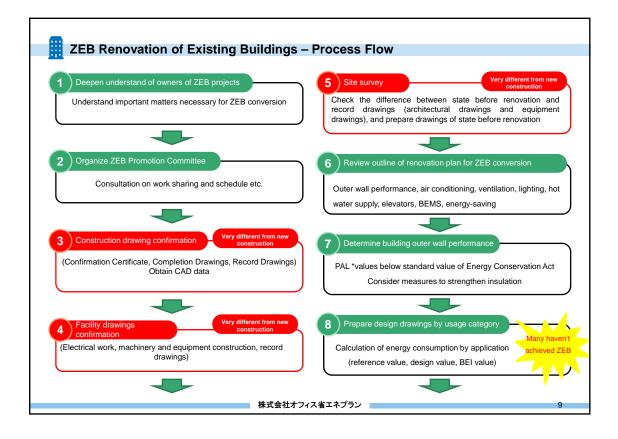
* There are many existing buildings whose statutory useful life has passed more than 15 years, and are ready for renovation

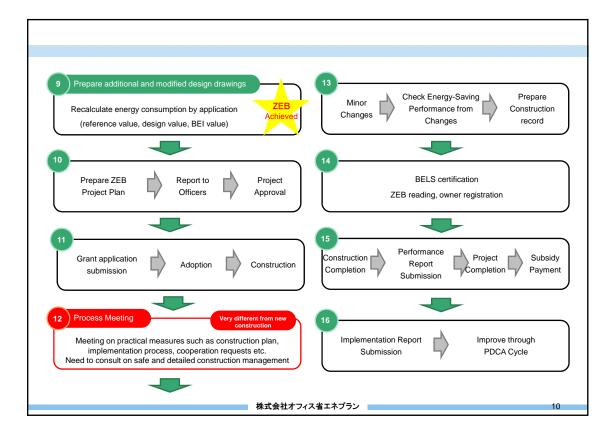
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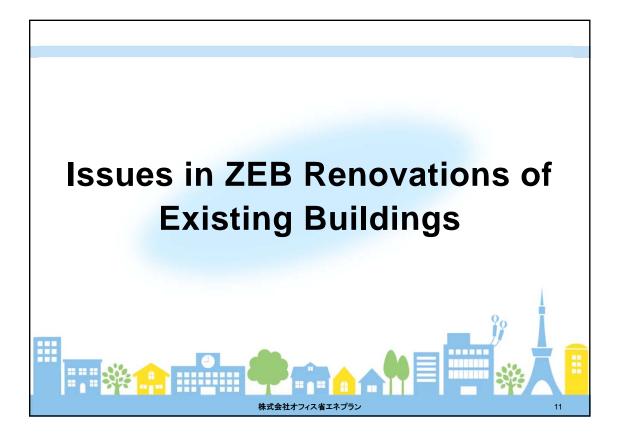


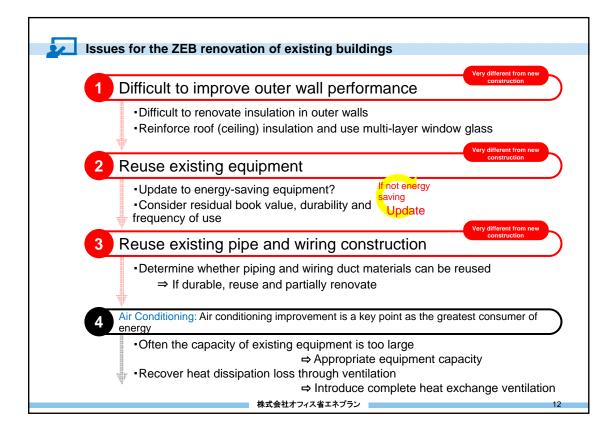


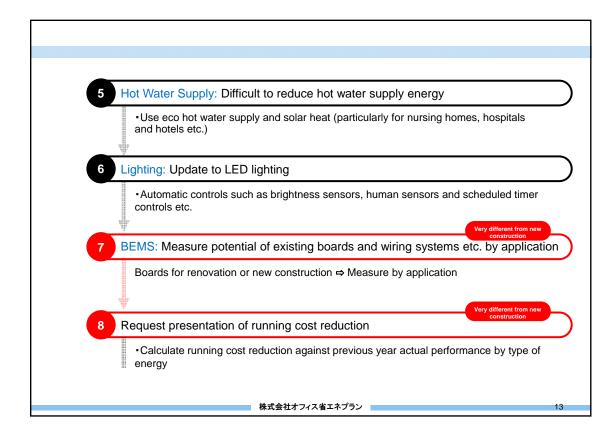






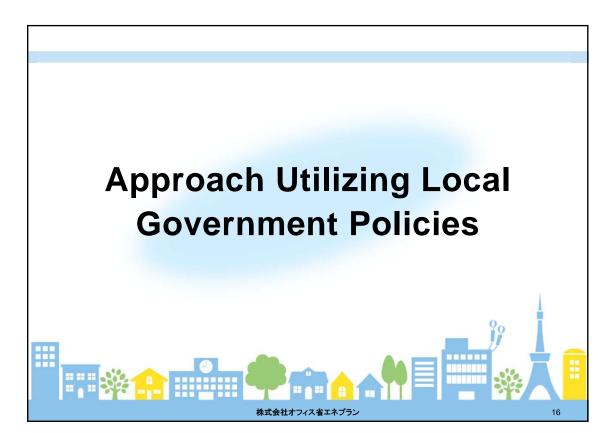




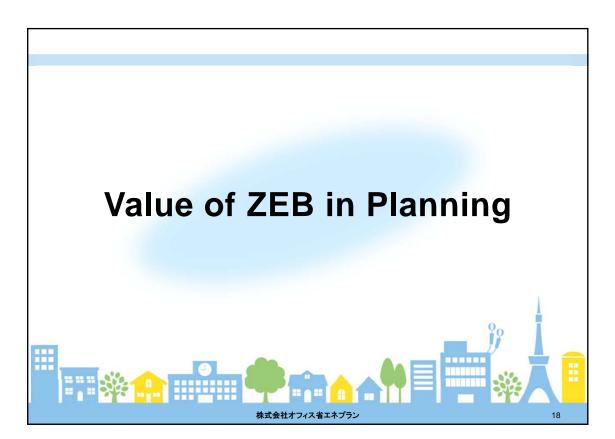


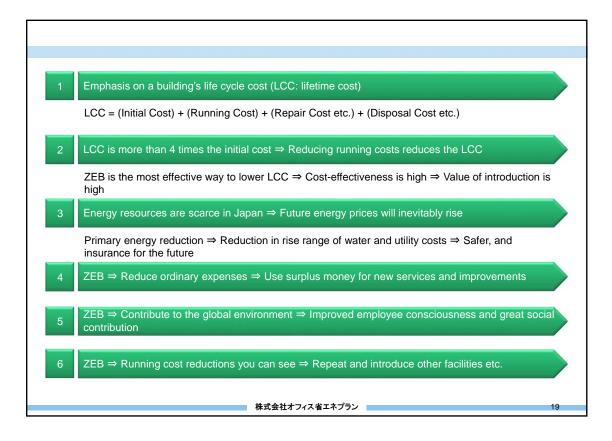


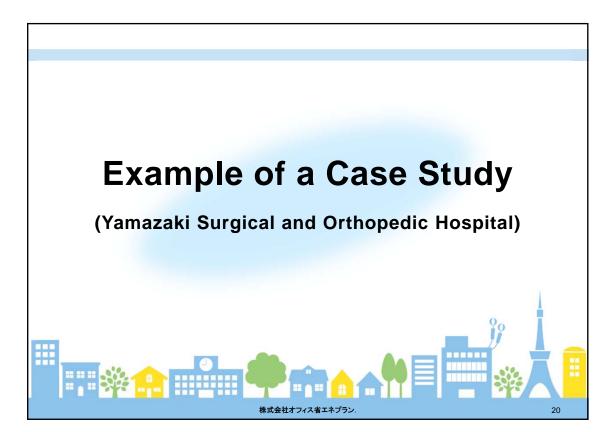
1	Relationship between the Web calculated primary energy reduction rate and running cos reduction rate	st
	In the case of a reduction rate of 50%, the running cost reduction is not 50%	
	Request presentation of reduction of running costs	
2	Running cost reduction calculation (calculation is not necessary for ZEB project application)	
	Calculate running costs by type or energy (electricity, oil, gas) by application category	
3	Ventilation facility and other (OA equipment) energy consumption can be difficult to measure	
	Most existing buildings have power supplied from electric socket outlets (shared wiring vother equipment)	with
	Actual Evaluation Method: Manage measurements on the computer by month for each application category (reference value, design value, actual value, achieved rate etc.)	
	ZEB Promotion Committee in Japan analyzes monthly and annual reports and makes improvements through the PDCA cycle.	
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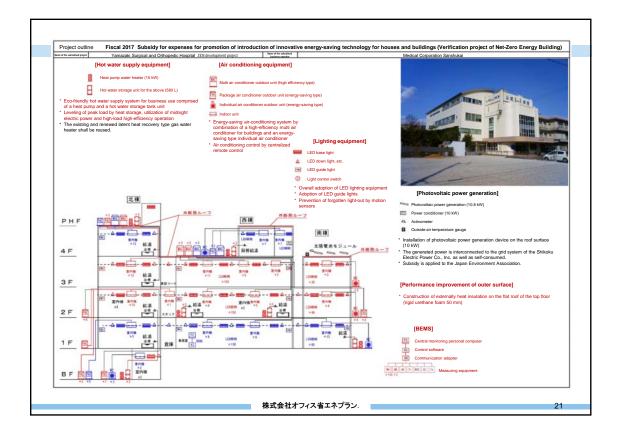


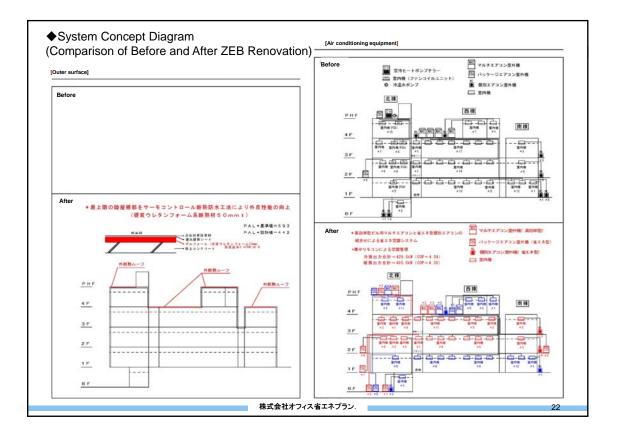


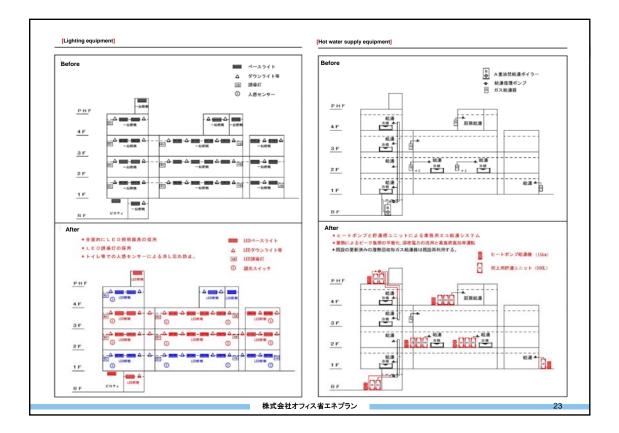


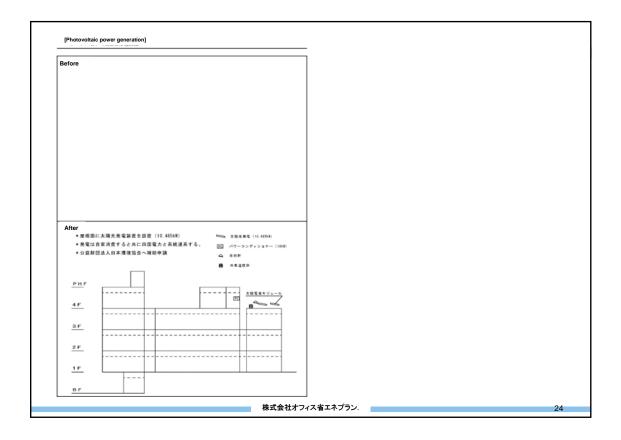


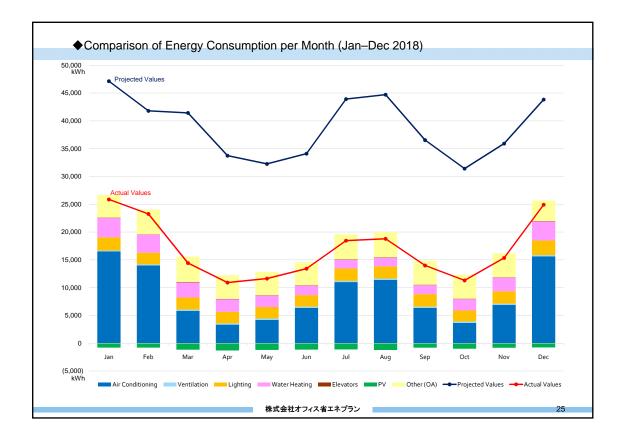












Usage Category Reference Values Design Values Actual Values MJ/Year Consumption (MJ/Year) Decrease (MJ/Year) Decrease (MJ/Year) Consumption (MJ/Year) Decrease (MJ/Year) Consumption (MJ/Year) Decrease (MJ/Year) Decrea				Primary Energy Consumption							
Imbuly Tear (MJ/Year) Rate (%) (MJ/Year) Rate (%) (MJ/Year) Rate (%) Air Conditioning 3,975,579 2,392,103 1,583,476 39.8 1,026,674 2,948,905 74. Ventilation 933,570 372,741 560,829 60.0 25,679 907,891 97. Lighting 1,916,324 443,488 1,472,836 76.8 258,015 1,658,309 86. Water Heating 1,524,001 787,223 736,778 48.3 273,378 1,250,623 82. Photovoltaic Power Generation (Self-consumption) 0 -103,304 1003,304 - -118,464 118,464 - Other 580,780 580,780 0 0.0 500,805 79,975 13. Including PV / Excluding Other 9,014,136 4,556,913 4,457,223 49.4 1,975,047 7,039,089 76. Including PV / Excluding Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81.	Usage Category		Reference Values Actual Values Actual Values								
Ventilation 933,570 372,741 560,829 60.0 25,679 907,891 97. Lighting 1,916,324 443,488 1,472,836 76.8 2580,015 1,658,309 86. Water Heating 1,524,001 787,223 736,778 48.3 273,378 1,250,623 82. Elevators 83,882 83,882 0 0.0 8,960 74,922 89. Photovoltaic Power Generation (Self-consumption) 0 -103,304 103,304 - -118,464 118,464 - Other 580,780 580,780 0 0.0 500,805 79,975 13. Including PV/ Including Other 9,014,136 4,556,913 4,457,223 49.4 1,975,047 7,039,089 78. Excluding Other 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. Vertisidiering PV / Excluding Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81.			MJ/Year								
Lighting 1.916,324 443,488 1.472,836 76.8 258,015 1.658,309 86. Water Heating 1.524,001 787,223 736,778 48.3 273,378 1.250,623 82. Elevators 83,882 83,882 83,882 0 0.0 8.960 74,922 89. Photovoltaic Power Generation (Self-consumption) 0 -103,304 103,304 - -118,464 118,464 - Other 580,780 580,780 0 0.0 500,805 79,975 13. Including DV / Including Other 9,014,136 4,556,913 4,457,223 49.4 1,975,047 7,039,089 78. Vextluding Other 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. Vextluding Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. VZEB Rank (Including PV / Excluding Other) 3,976,133 1,474,242 6,959,114 8.000 9,014,136 MJ/Year 9,01	Air Conditi	oning	3,975,579	2,392,103	1,583,476	39.8	1,026,674	2,948,905	74.		
Water Heating 1,524,01 787,223 736,778 48.3 273,378 1,250,623 82. Elevators 83,882 83,882 0 0.0 8,960 74,922 89. Photovoltaic Power Generation (Self-consumption) 0 -103,304 103,304 - -118,464 118,464 - Other 580,780 580,780 0 0.0 500,805 79,975 13. Including PV / Including Other 9,014,136 4,556,913 4,457,223 49.4 1,975,047 7,039,089 78. Vextualing Other 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. Vextualing Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. VZEB Rank (Including PV / Excluding Other) 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. Pointary Energy Consumption (MJ/Year) 3,976,133 1,474,242 6,959,114 8.000 9,014,136 MJ/Year			933,570	372,741	560,829	60.0	25,679	907,891	97.		
Including V/ (Self-consumption) Notice			1,916,324	443,488	1,472,836	76.8	258,015	1,658,309	86.		
Photovoltaic Power Generation (Self-consumption) 0 -103,304 103,304 - -118,464 118,464 - Other 580,780 580,780 0 0.0 500,805 79,975 13. Including DV/r Power Consumption 9,014,136 4,556,913 4,457,223 49.4 1,975,047 7,039,089 78. Including DV/r Power Consumption 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. VZEB Rank (Including PV / Excluding Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. VZEB Rank (Including PV / Excluding Other Actual Values Actual Values 9,014,136 M/Year 4,457,223 6,959,114 6,000 6,0	Water He	ating	1,524,001	787,223	736,778	48.3	273,378	1,250,623	82.		
Numerical Self-consumption 0 -103,304 103,304 - -118,464 118,464 - Other 580,780 580,780 0 0.0 500,805 79,975 13. Including DV/ Including DVer 9,014,136 4,556,913 4,457,223 49.4 1,975,047 7,039,089 78. Including DV/ Excluding Other 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. VZEB Rank (Including PV / Excluding Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. VZEB Rank (Including PV / Excluding Other Actual Values Actual Values 9.014,136 MJ/Year 9.014,136 MJ/Year Elevators PV Decrease (MJ/Year) 3,976,133 1,474,242 6,959,114 6.000	Elevato	rs	83,882	83,882	0	0.0	8,960	74,922	89.		
Including PV / Including Other 9,014,136 4,556,913 4,457,223 49.4 1,975,047 7,039,089 78. Including Other 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. Including Other 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. VEEB Rank (Including PV / Excluding Other) 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. VEEB Rank (Including PV / Excluding Other) 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. VEEB Rank (Including PV / Excluding Other) 0esign Values Actual Values 9,014,136 MJ/Year 4,457,223 6,959,114 9,000 9,014,136 MJ/Year 9,000			0	-103,304	103,304	-	-118,464	118,464	-		
Including Other 9,014,136 4,556,913 4,457,223 49,4 1,975,047 7,039,089 78. Including Other 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. Not considering PV / Excluding Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. *ZEB Rank (Including PV / Excluding Other) Design Values Actual Values Actual Values Primary Energy Consumption per Usage (Including PV / Including Other) *Decrease (MJ/Year) 3,976,133 1,474,242 6,959,114 8.000 9,014,136 MJ/Year #Air Conditioning W / Including Other) Decrease Rate (%J) 4,457,223 6,959,114 6,000 6,000 6,000 6,000 0 ther (OA)	Other		580,780	580,780	0	0.0	500,805	79,975	13.		
Including OV/ Excluding Other 8,433,356 3,976,133 4,457,223 52.8 1,474,242 6,959,114 82. Not considering PV / Excluding Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. VZEB Rank (Including PV / Excluding Other) Design Values Actual Values Primary Energy Consumption per Usage (Including PV / Including OV 9,014,136 MJ/Year 9,014,136 MJ/Year 9,014,136 MJ/Year 9,014,136 MJ/Year 9,014,136 MJ/Year Elevators PV Decrease (MJ/Year) 4,457,223 6,959,114 6,000 6,000 6,000 6,000 6,000 6,000 0 ther (OA) 0			9,014,136	4,556,913	4,457,223	49.4	1,975,047	7,039,089	78.		
Not considering PV / Excluding Other 8,433,356 4,079,437 4,353,919 51.6 1,592,706 6,840,650 81. vZEB Rank (Including PV / Excluding Other) Design Values Actual Values 9,014,136 MJ/Year 9,014		ng PV /	8,433,356	3,976,133	4,457,223	52.8	1,474,242	6,959,114	82.		
Design Values Actual Values 9,014,136 MJ/Year Consumption (MJ/Year) 3,976,133 1,474,242 Decrease (MJ/Year) 6,959,114 Decrease Rate (%) 52.8 82.5	Not consid	ering PV /	8,433,356	4,079,437	4,353,919	51.6	1,592,706	6,840,650	81.		
ZEB Rank ZEB Ready Nearly ZEB 2,000	Consumption (MJ/Year) Decrease (MJ/Year)	Design V: 3,976,1 4,457,2	alues Actual Va 33 1,474,2 23 6,959,1	alues 242 114	9,014,136 8,000 6,000 4,000	MJ/Year	Air Conditioning Water Heating Other (OA) 4,556,913	Ventilation	Lighting PV 444,500		
	(%)		ady Nearly 2		2,000						