



Evaluation ENERBUILD-Tool – existing buildings Kindergarten Bizau







Name of the building	Kindergarten Bizau
Address of the building	6874 Bizau, Austria
Owner/investor	Municipality of Bizau
Year of construction	2009
Building type	Kindergarten
Building method	Wood construction
Number of buildings	1
Number of levels above earth	2
Number of levels underground	1
Kind of the public use	Kindergarten
Effective area for public use in m 2 (net)	440
Additional private uses	-
Effective area for private use in m 2 (net)	-
Total effective area in m ²	440
Source of energy for heating	Heating oil
Heating system	Teleheating
Water heating system	Teleheating
Date of the building evaluation	-

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2 Execution of the building evaluation with the ENERBBUILD tool

Responsible Organisation: Spektrum GmbH, A-6850 Dornbirn, Austria

Contact person: DI Dr. Karl Torghele

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Temperature for thermal comfort in summertime: 53 % > 26 %Local limits for heating demand: $19 \text{ kWh/m}^2\text{a}$

		Criteria		Alpine THIS PROJECT OF EUROPEAN REGIONAL DEVE	FUNDED BY THE LOPMENT FUND
Nr.		Title	Must criteria (M); Minimum standard	max. points	Points
Α		Quality of location and facilities		max. 100	50
Α	1	Access to public transport network		50	20
A	2	Ecological quality of site		50	30
_				222	222
В		Process and planning quality		max. 200	200
В	1	Decision making and determination of goals		25	15
В	_	Formulation of verifiable objectives for energetic and ecological measures	M	20	20
В	3	Standardized calculation of the economic efficiency	M	40	35
В		Product-management - Use of low-emission products		60	60
В	_	Planning support for energetic optimization		60	60
В	6	Information for users		25	25
С		France 9 Hillitias (Dancins haves)		max. 350	264
		Energy & Utilities (Passive house)	N4		=*:
C		Specific heating demand (PHPP)	M	100	84
С		Specific cooling demand (PHPP)	M	100	50
С	_	Primary energy demand (PHPP)	M	125	100
С	4	CO2-emissions (PHPP)		50	30
D		Health and Comfort		max. 250	60
ם	1	Thermal comfort in summer		150	0
D	2	Ventilation - non energetic aspects		50	50
D	3	Daylight optimized (+ lightening optimized)		50	10
	J	Daynghi optimized (+ lightening optimized)	I	50	10
Ε		Building materials and construction		max. 200	192
E	1	Ol3 _{TGH-Ic} ecological index of the thermal building envelope (respectively Ol3 of the total mass of the building)		200	192
	Sum max. 1000				766





Evaluation ENERBUILD-Tool – existing buildings Communal Center St. Gerold







Name of the building	Communal Center St. Gerold
Address of the building	A-6722 St. Gerold, Faschinastraße 84, Austria
Owner/investor	Municipality of St. Gerold
Year of construction	2008/2009
Building type	Communal center
Building method	Wood construction
Number of buildings	1
Number of levels above earth	4
Number of levels underground	0
Kind of the public use	Kindergarten, administration, commerce
Effective area for public use in m 2 (net)	527
Additional private uses	-
Effective area for private use in m ² (net)	-
Total effective area in m ²	527
Source of energy for heating	Biomass
Heating system	Biomass
Water heating system	Biomass
Date of the building evaluation	-

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Temperature for thermal comfort in summertime: $0\% > 25 \ \mathbb{C}$ Local limits for heating demand: $14 \ \text{kWh/m}^2$

		Criteria		Alpine SPAC THIS PROJECT IS CO EUROPEAN REGIONAL DEV	E WHOOD BY THE LECOMERN FUND D
Nr.		Title	Must criteria (M); Minimum standard	max. points	Points
Α		Quality of location and facilities		max. 100	47
Α	1	Access to public transport network		50	12
Α	2	Ecological quality of site		50	35
В		Process and planning quality		max. 200	200
В	1	Decision making and determination of goals		25	25
В	2	Formulation of verifiable objectives for energetic and ecological measures	М	20	20
В	3	Standardized calculation of the economic efficiency	М	40	35
В	4	Product-management - Use of low-emission products		60	60
В	5	Planning support for energetic optimization		60	60
В	6	Information for users		25	25
С		Energy & Utilities (Passive house)		max. 350	350
С	1	Specific heating demand (PHPP)	M	100	100
С	2	Specific cooling demand (PHPP)	М	100	100
С	3	Primary energy demand (PHPP)	M	125	125
С	4	CO2-emissions (PHPP)		50	50
D		Health and Comfort		max. 250	155
D	1	Thermal comfort in summer		150	65
D	2	Ventilation - non energetic aspects		50	40
D	3	Daylight optimized (+ lightening optimized)		50	50
Е		Building materials and construction		max. 200	194
E	1	OI3 _{TGH-Ic} ecological index of the thermal building envelope (respectively OI3 of the total mass of the building)		200	194
	Sum max. 1000			max. 1000	946





Evaluation ENERBUILD-Tool – existing buildings Kindergarten Thüringerberg







Name of the building	Kindergarten Thüringerberg
Address of the building	A-6721 Thüringerberg, Jagdbergstraße 273, Austria
Owner/investor	Municipality of Thüringerberg
Year of construction	2010
Building type	Kindergarten, fire station
Building method	Wood construction
Number of buildings	1
Number of levels above earth	2
Number of levels underground	0
Kind of the public use	Kindergarten, fire station
Effective area for public use in m 2 (net)	430
Additional private uses	-
Effective area for private use in m 2 (net)	-
Total effective area in m ²	430
Source of energy for heating	Biomass
Heating system	Teleheating
Water heating system	Teleheating
Date of the building evaluation	-

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2 Execution of the building evaluation with the ENERBBUILD tool

Responsible Organisation: Spektrum GmbH, A-6850 Dornbirn, Austria

Contact person: DI Dr. Karl Torghele

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Temperature for thermal comfort in summertime: 0 % > 25 %Local limits for heating demand: 14 kWh/m^2

	Criteria				
Nr.		Title	Must criteria (M); Minimum standard	max. points	Points
Α		Quality of location and facilities		max. 100	50
Α	1	Access to public transport network		50	20
Α	2	Ecological quality of site		50	30
В		Process and planning quality		max. 200	200
В	1	Decision making and determination of goals		25	15
В	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	20
В	3	Standardized calculation of the economic efficiency	М	40	35
В	4	Product-management - Use of low-emission products		60	60
В	5	Planning support for energetic optimization		60	60
В	6	Information for users		25	25
С		Energy & Utilities (Passive house)		max. 350	264
С	1	Specific heating demand (PHPP)	М	100	84
С	2	Specific cooling demand (PHPP)	М	100	50
С	3	Primary energy demand (PHPP)	М	125	100
С	4	CO2-emissions (PHPP)		50	30
D		Health and Comfort		max. 250	60
D	1	Thermal comfort in summer		150	0
D	2	Ventilation - non energetic aspects		50	50
D	3	Daylight optimized (+ lightening optimized)		50	10
Е		Building materials and construction		max. 200	192
E	1	Ol3 _{TGH-lc} ecological index of the thermal building envelope (respectively Ol3 of the total mass of the building)		200	192
		Sum		max. 1000	766
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Evaluation ENERBUILD-Tool – existing building Social center Klosterreben







Name of the building	Social center Klosterreben
Address of the building	A-6830 Rankweil, Klosterreben 4, Austria
Owner/investor	Municipality of Rankweil
Year of construction	In construction
Building type	Social center
Building method	Solid construction
Number of buildings	1
Number of levels above earth	3
Number of levels underground	1
Kind of the public use	Social center
Effective area for public use in m 2 (net)	4230
Additional private uses	-
Effective area for private use in m ² (net)	-
Total effective area in m ²	4230
Source of energy for heating	Biomass
Heating system	Teleheating
Water heating system	Teleheating
Date of the building evaluation	-





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Responsible Organisation: Spektrum GmbH, A-6850 Dornbirn, Austria

Contact person: DI Dr. Karl Torghele

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Temperature for thermal comfort in summertime: 26 °C

Local limits for heating demand: (PHPP) 25 kWh/m²

Nr.		Title	Must criteria (M); Minimum standard	max. points	Points
Α		Quality of location and facilities		max. 100	84
Α	1	Access to public transport network		50	48
Α	2	Ecological quality of site		50	36
В		Process and planning quality		max. 200	155
В	1	Decision making and determination of goals		25	0
В	2	Formulation of verifiable objectives for energetic and ecological measures	М	20	20
В	3	Standardized calculation of the economic efficiency	М	40	30
В	4	Product-management - Use of low-emission products		60	60
В	5	Planning support for energetic optimization		60	20
В	6	Information for users		25	25
С		Energy & Utilities (Passive house)		max. 350	191
С	1	Specific heating demand (PHPP)	M	100	40
С	2	Specific cooling demand (PHPP)	M	100	73
С	3	Primary energy demand (PHPP)	М	125	68
С	4	CO2-emissions (PHPP)		50	10
D		Health and Comfort		max. 250	115
D	1	Thermal comfort in summer		150	65
D	2	Ventilation - non energetic aspects		50	40
D	3	Daylight optimized (+ lightening optimized)		50	10
Ε		Building materials and construction		max. 200	148
F		OI3 _{TGH-Ic} ecological index of the thermal building envelope (respectively		200	4.40
Ε	[1	Ol3 of the total mass of the building)		200	148
	<u> </u>				
	Sum max. 1000			693	