

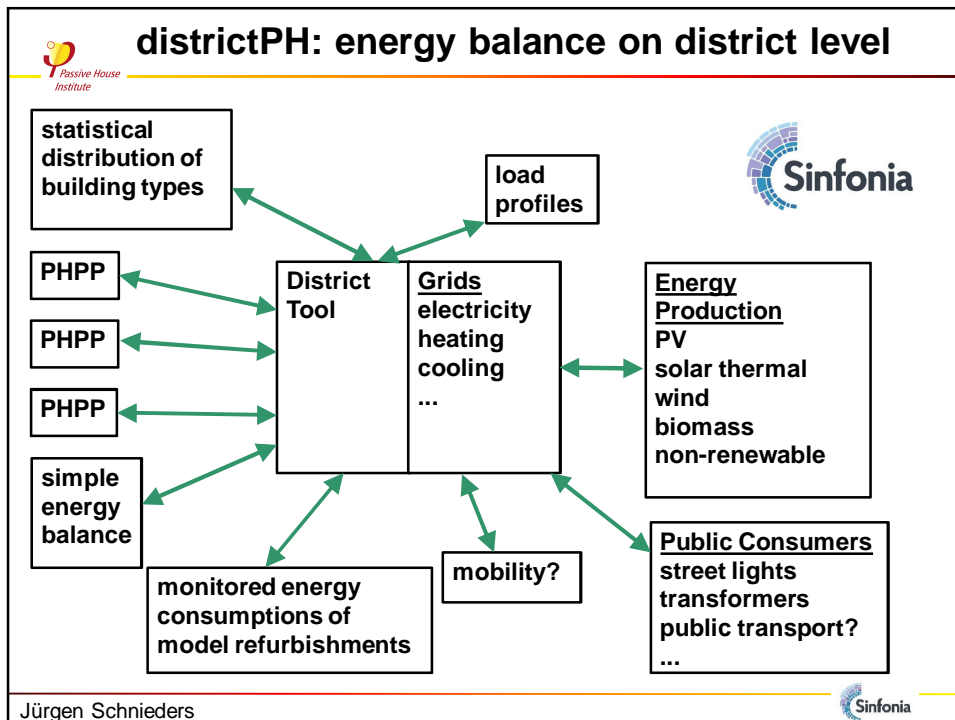
Passive House Institute

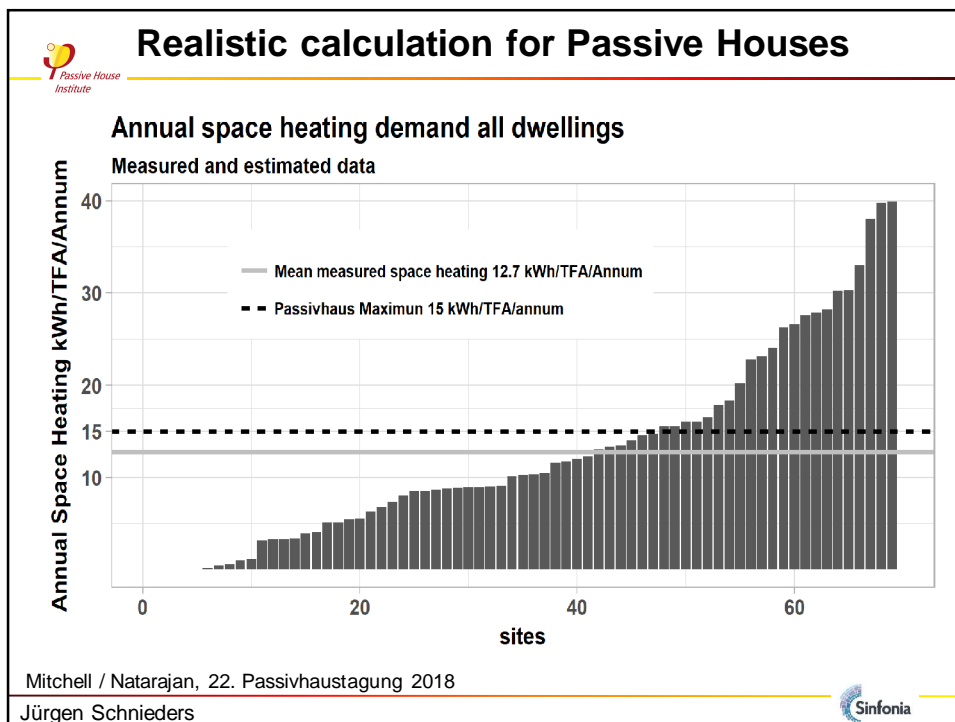
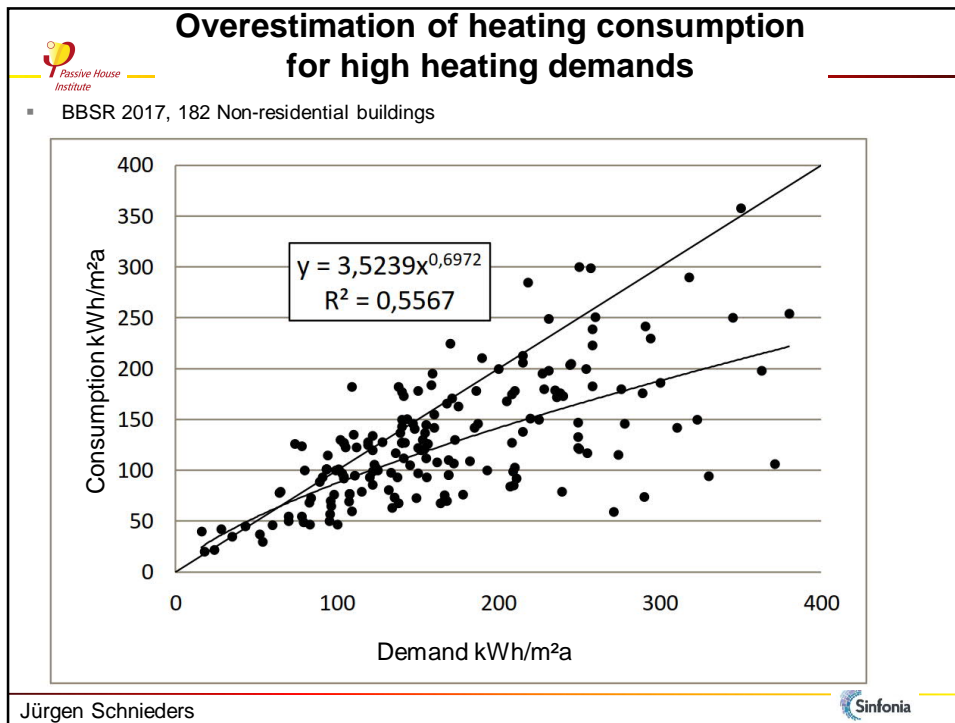
district PH

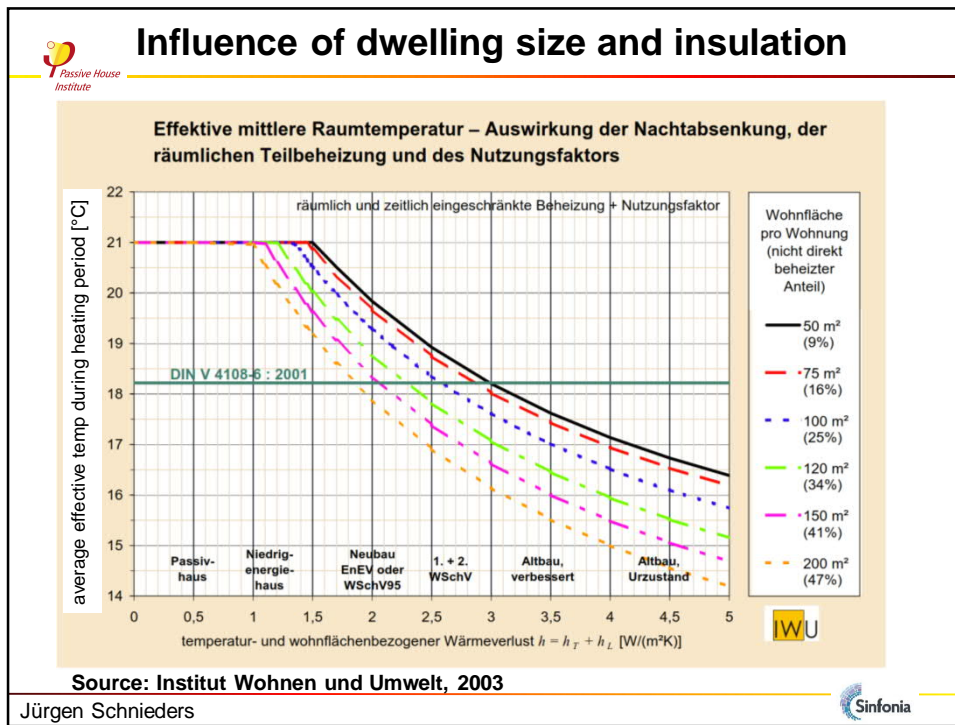
Energy balancing at district level

Sinfonia

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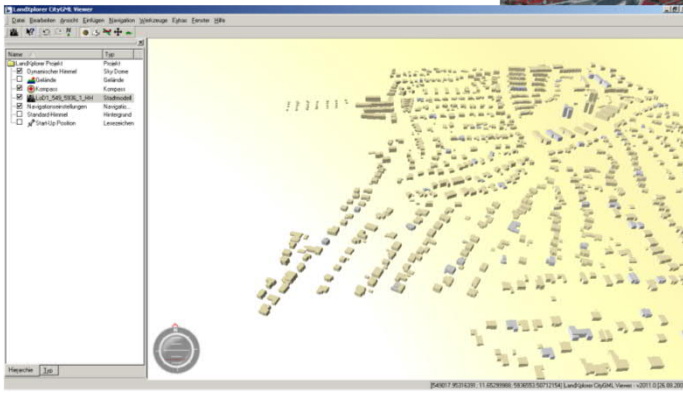
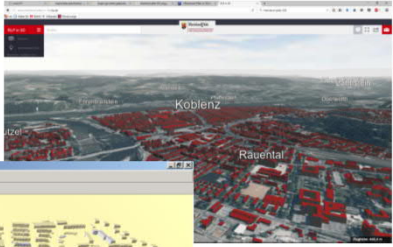
Building typology

Typ-ID	Land	Kürzel	Nutzungsyp	Erhebungsart	Foto	Jahr von	Jahr bis	EBF	Anzahl Gesch	Anzahl WE	A_Roof_1	A_Roof_2	A_Wal_1	A_Wal_2	A_Wal_3	U_Wal	Wwrth
43	AT	031 AT AB 1919-1944	AB	Apartment block, Average bi		1919	1944	895.296	4	13	493.05	0	988.81	0	0	1.9	
44	AT	032 AT AB 1961-1980	AB	Apartment block, Average bi		1961	1980	898.968	6	18	365.5	10.8	891	0	0	0	
45	AT	033 AT AB 1981-1990	AB	Apartment block, Average bi		1981	1990	1342.768	6	16	421.98	0	531.86	284.29	0	0	
46	AT	034 AT AB 1991-2000	AB	Apartment block, Average bi		1991	2000	701.896	5	12	165.23	104.05	698.69	0	0	0	
47	AT	035 AT AB 2001-2010	AB	Apartment block, Average bi		2001	2010	980.056	6	29	409.8	0	869.3	0	0	0	
48	AT	036 AT MFH 0-1918	MFH	Multifamily house, Average 1		0	1918	648.336	3	3	157.3	142.3	183.3	258.2	0	0	
49	AT	037 AT MFH 1919-1944	MFH	Multifamily house, Average 1		1919	1944	357.712	3	2	193.8	0	110.5	209.7	0	0	
50	AT	038 AT MFH 1945-1990	MFH	Multifamily house, Average 1		1945	1990	234.268	3	4	144	0	239.9	16.2	0	0	
51	AT	039 AT MFH 1991-1990	MFH	Multifamily house, Average 1		1991	1990	368.312	3	2	132.17	64.05	178.29	64.39	0	0	
52	AT	040 AT MFH 1991-1990	MFH	Multifamily house, Average 1		1991	1990	507.584	3	8	103.1	87.2	412.2	63.8	0	0	
53	AT	041 AT MFH 2001-2010	MFH	Multifamily house, Average 1		2001	2010	502.12	3	2	183.9	0	256.9	71.1	164.2	0	
54	AT	042 AT TH 0-1918	TH	row/semi detached house, Awer		0	1918	342.72	2	1	242.8	0	163.2	160.1	164.2	0	
55	AT	043 AT TH 1981-1990	TH	semi detached house, Awer		1981	1990	312.08	3	1	150.2	0	226.4	0	0	0	
56	AT	044 AT TH 1991-1990	TH	semi detached house, Awer		1991	1990	119.992	2	1	74.37	0	67.55	55.13	0	0	
57	AT	045 AT TH 1991-2000	TH	semi detached house, Awer		1991	2000	127.04	2	1	32.65	30.11	53.7	92.97	0	0	
58	AT	046 AT TH 2001-2010	TH	semi detached house, Awer		2001	2010	182.32	2	1	85.2	0	120.7	122	0	0	
59	AT	047 AT AB 0-1918	AB	Apartment blo AT N AB 01 C		0	1918	1230.7	4	12	512.8	0	1130.38	0	0	0	
60	AT	048 AT AB 1919-1944	AB	Apartment blo AT N AB 02 C		1919	1944	1183.32	4	14	493	0	1128	0	0	0	
61	AT	049 AT AB 1945-1990	AB	Apartment blo AT N AB 03 C		1945	1990	810.472	4	12	317.7	0	588	0	0	0	
62	AT	050 AT AB 1991-1990	AB	Apartment blo AT N AB 04 C		1991	1990	835.8	4	12	389.9	0	958.34	0	0	0	
63	AT	051 AT AB 1991-1990	AB	Apartment blo AT N AB 05 C		1991	1990	1360.8	4	14	120.64	304.7	885.6	173.28	0	0	
64	AT	052 AT AB 1991-2000	AB	Apartment blo AT N AB 06 C		1991	2000	908.2	4	14	380.8	0	812.29	0	0	0	
65	AT	053 AT AB 2001-2010	AB	Apartment blo AT N AB 07 C		2001	2010	992.8	5	25	275.44	105.36	522.15	90.09	0	0	
66	AT	054 AT AB 2011-9999	AB	Example Bui/AT N AB 08 C		2011	9999	908.2	5	12	380.8	0	812.3	0	0	0	
67	AT	055 AT MFH 0-1918	MFH	Multifamily ho AT N MFH 01		0	1918	330.8	3	4	137.8	0	447.3	0	0	0	
68	AT	056 AT MFH 1919-1944	MFH	Multifamily ho AT N MFH 02		1919	1944	295	3	4	122.8	0	414.12	0	0	0	
69	AT	057 AT MFH 1945-1990	MFH	Multifamily ho AT N MFH 03		1945	1990	588.4	3	3	164.5	209.5	491.4	0	0	0	


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Not included: GIS data import

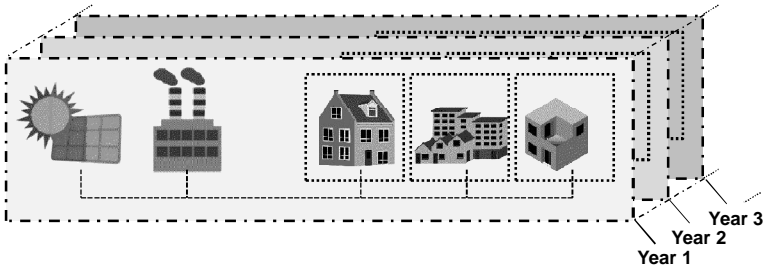
- Available data inhomogeneous
- manual data processing required anyway




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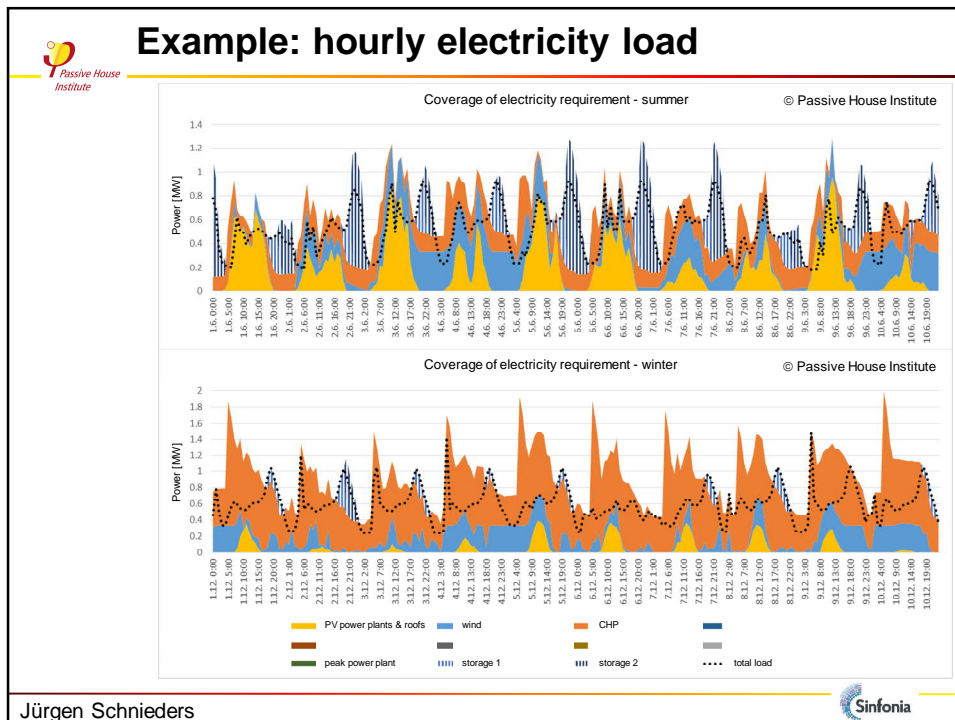
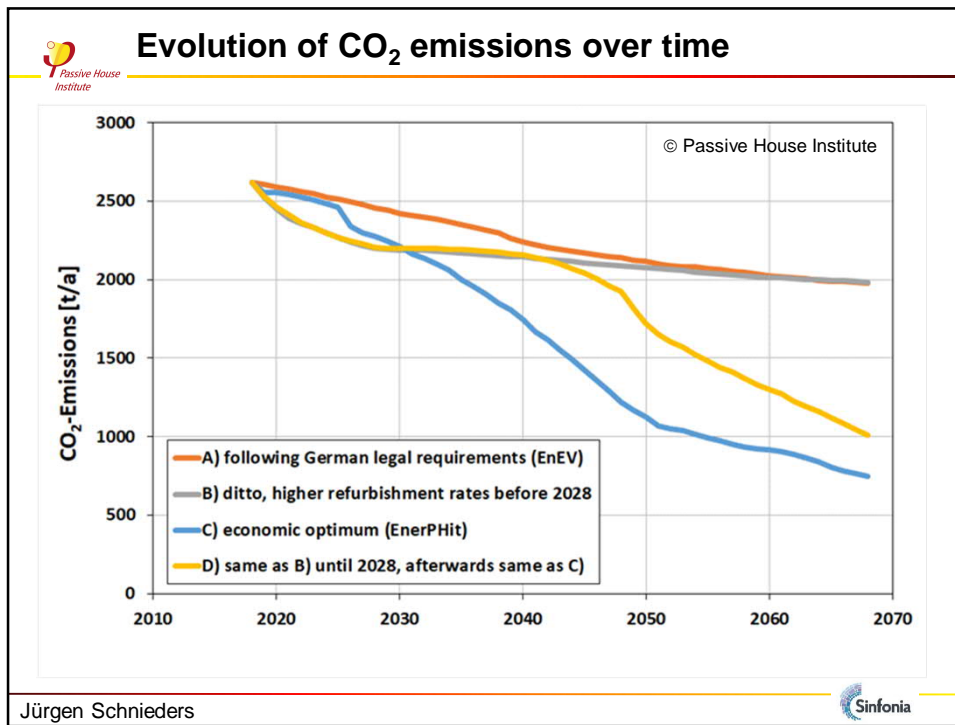



Functionality



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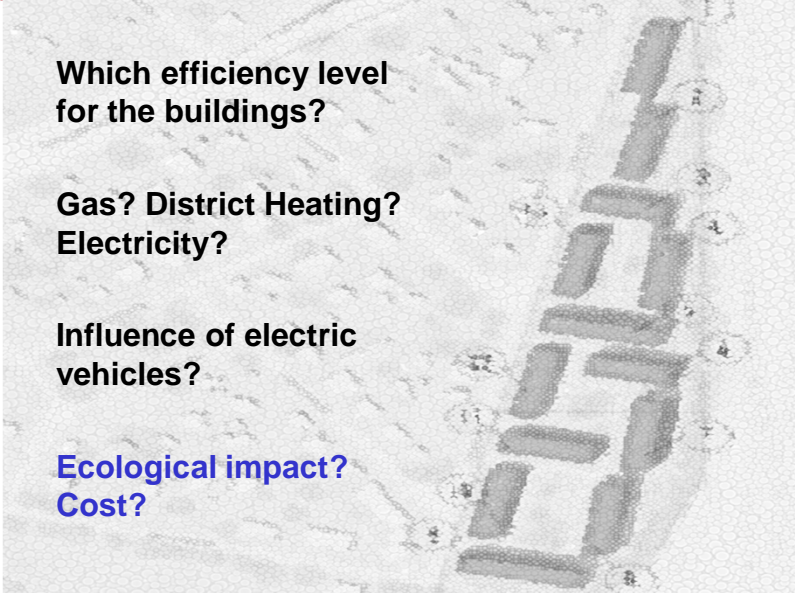
Example: New district in Berlin

Which efficiency level for the buildings?


Gas? District Heating? Electricity?

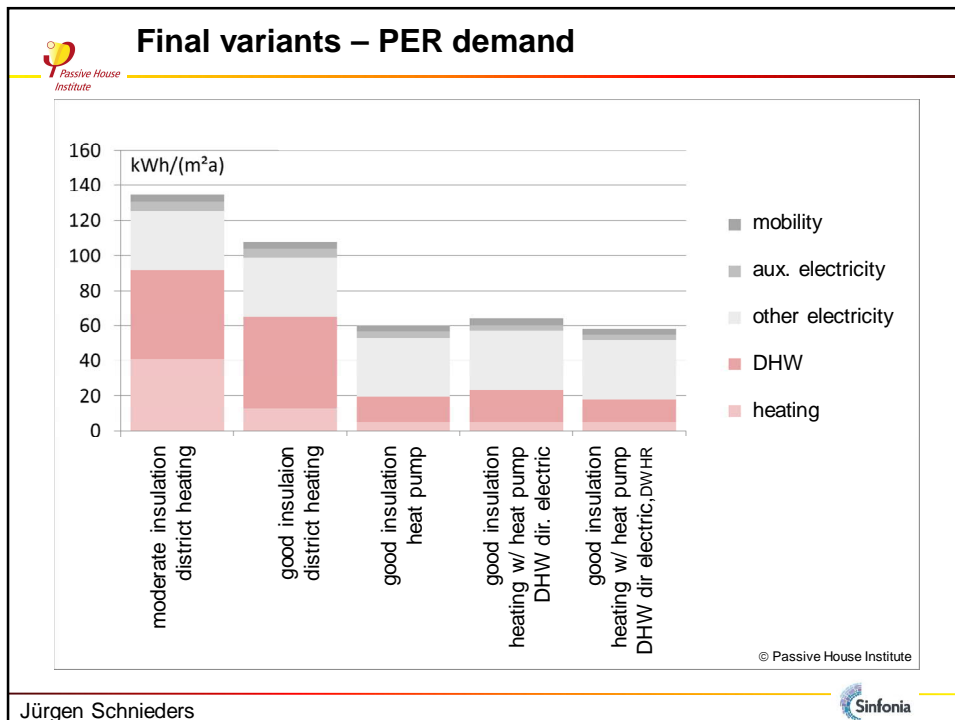
Influence of electric vehicles?

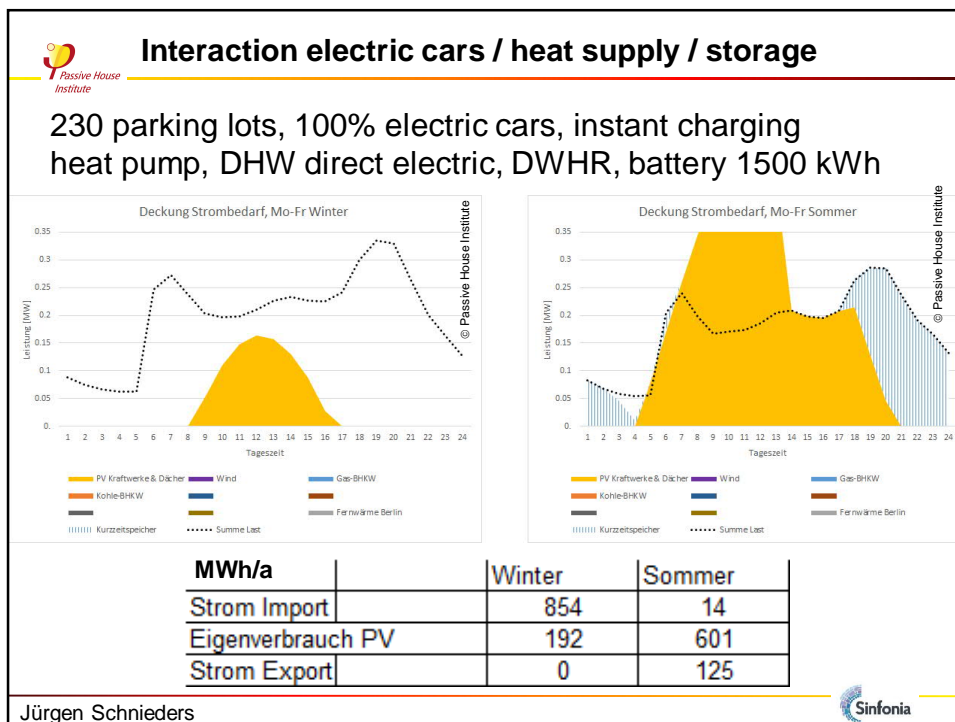
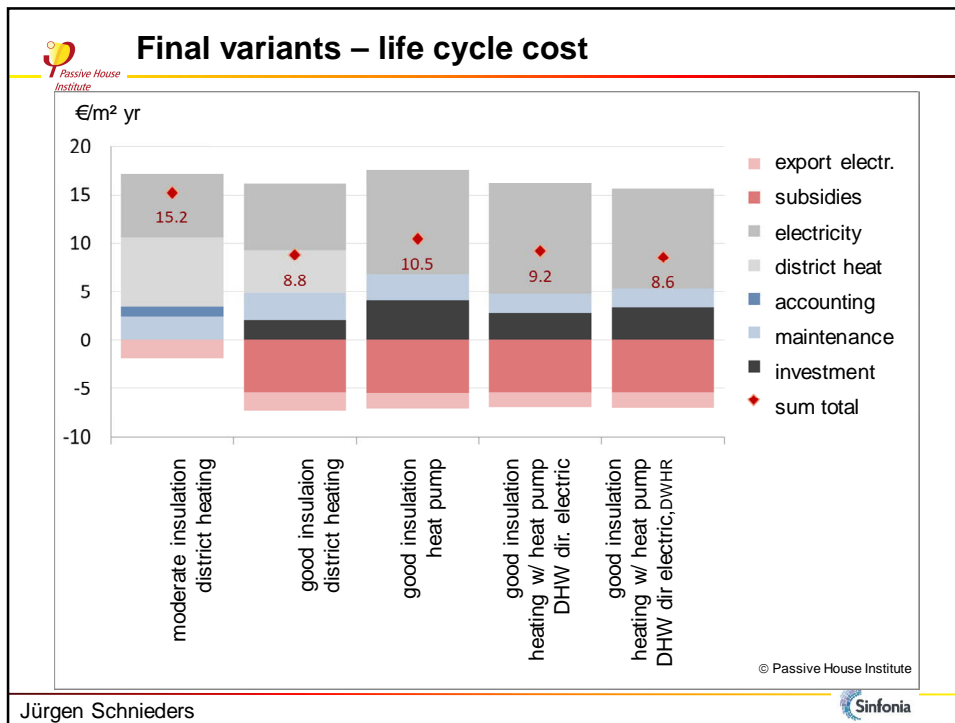
Ecological impact? Cost?



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Thank you!



Lectures | Workshops | Excursions | Exhibition



Building the future – sustainably!

Building in Berlin © Delmèr Oelschläger Architekten Partnerschaft

24TH INTERNATIONAL PASSIVE HOUSE CONFERENCE 2020 Sunday 20 – Monday 21 September 2020

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