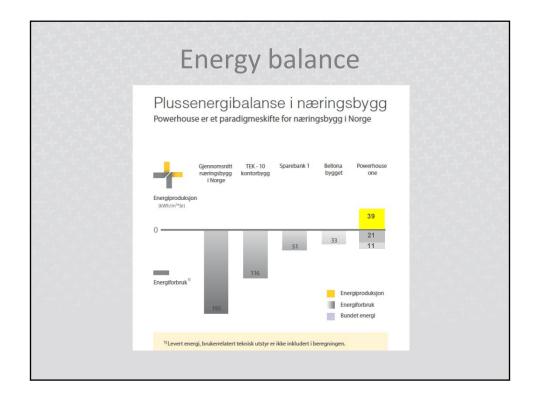
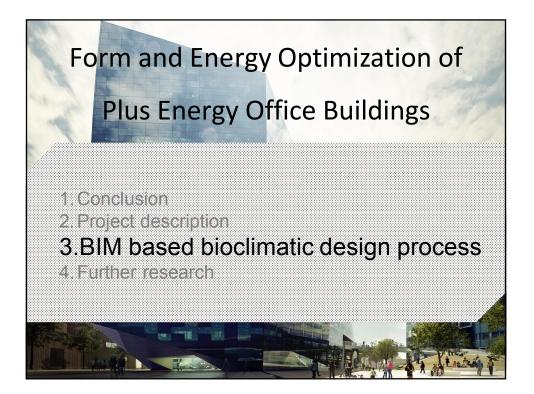


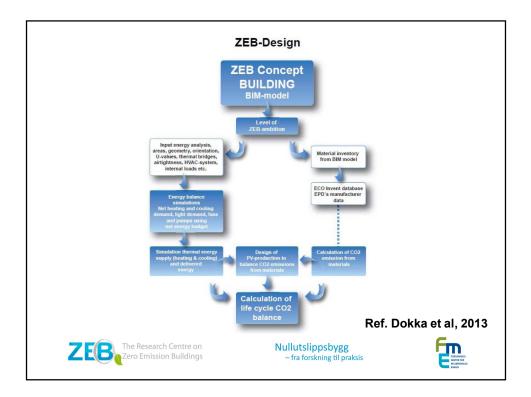
and, and demand for delivered energy tion is not included.	r for Powerhouse Brattørkaia 17 a
Net specific demand	Spesific demand for delivered energy
	kWh/m2/y 2.8
,	1,6
	3.7
	3,0
	0.4
,	9,4
	12.5
,	0.0
-1-	0.0
-7-	33.4
,	20,9

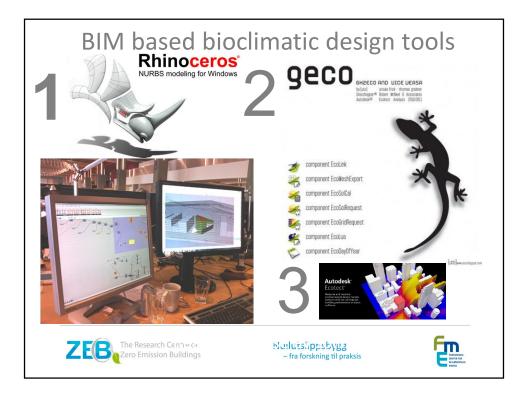
able 2: Best Case estimate of total electricity production.		
, F	Total kWh/y	Per m ² heated floor area kWh/m2/y
Need for delivered energy (best case, excluded equipment)	308.543	20,9
Calculated maximum electric	ity production - PV	
Alternative A: Roof only	370.000	25,0
Alternative B: Roof + south-east facade	481.000	32,6
Alternative C: Roof + south-east and south-west facade	585.000	39,6



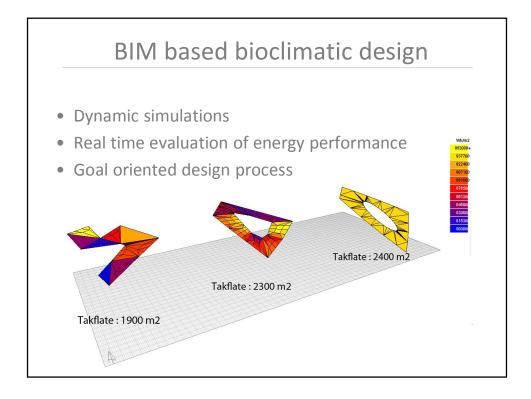


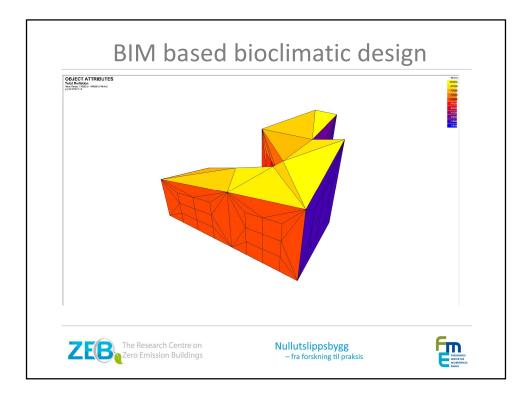


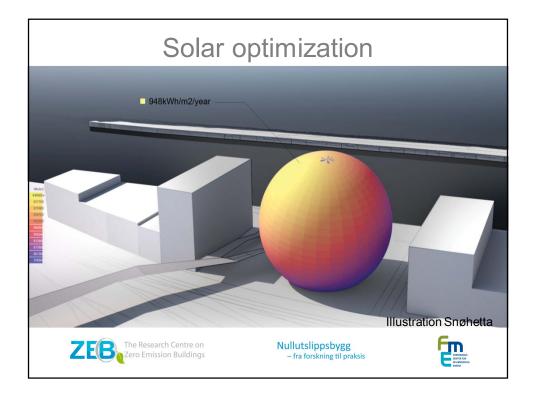


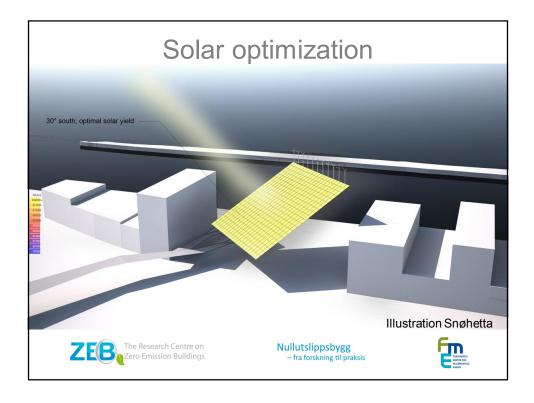


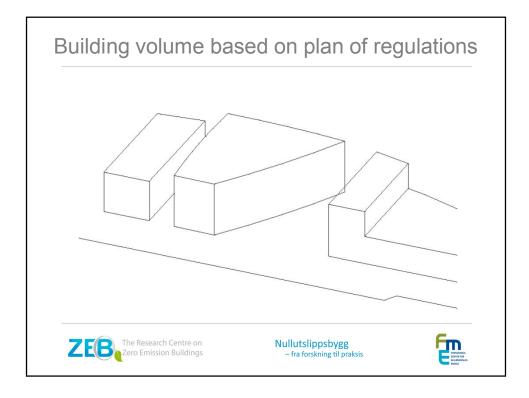


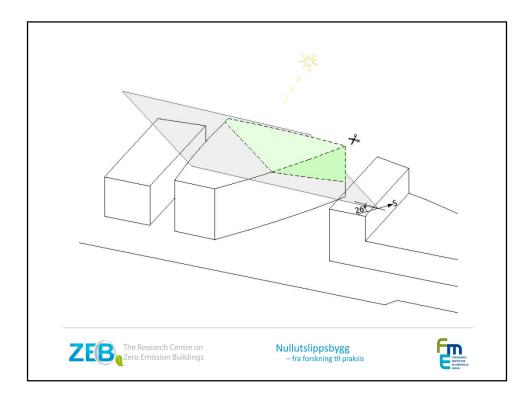


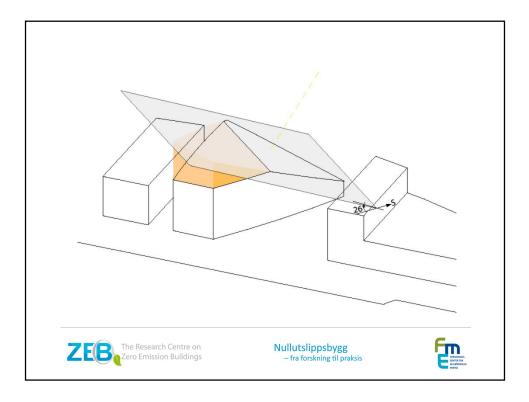


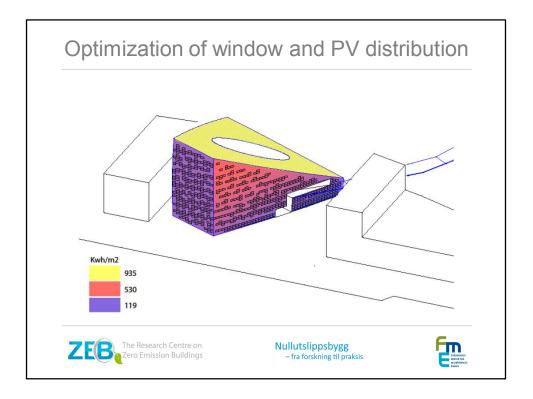














Building integrated PV

- Efficient solar cell module with 20% efficiency
- 26 degree angle towards south
- Minimal frame area

Simulatio	ns f	for F	owe	rhous	e#1	+3.7	and	nor Isopen 2100n2
	Tilt	Azimut	m2	Total kWp	MWh/y	kWh/kWp	PR	kWh/m2/y
Roof Sunpower 333 Wp	26	0	2100	429	390	910	86 %	186
Roof REC 245 Wp	26	0	2100	309	277	898	84 %	132
Roof ITS 230 Wp	26	0	2100	250	253	873	82 %	120
Facade North West	90	140	64	13	5	347	83 %	70
Facade North East	90	-135	490	100	36	358	82 %	73
Facade South East	90	-40	490	100	71	709	85 %	144
Facade South West	90	78	490	100	58	584	84 %	118
Ref. Bjørn	Tho	rud, M	ulticon	sult Sche	ematic d	esign rep	ort 2	012
	rch Cent	re on		Nulluts	slippsbygg prskning til pr			

