

Assessment criteria of the competition included:

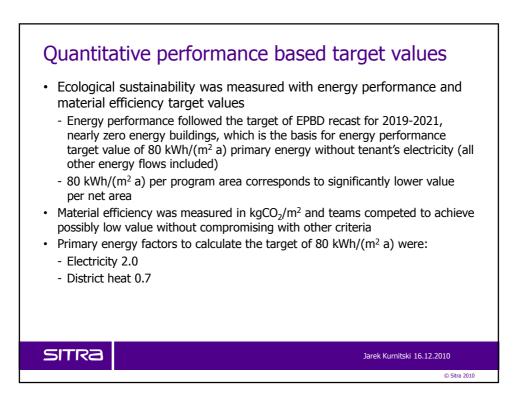
- **1.** Ecological sustainability including energy performance and material efficiency
- 2. Urban and architectural quality
- 3. Usability (functionality/quality of working environment)
- 4. Feasibility (economic efficiency and quality of technical solutions)
- These categories had to sum up with sound overall solution and it's development potential
- Referring to sustainable use of energy and material resources as well as cost efficiency , criteria 1. and 4. had transparent assessment framework:

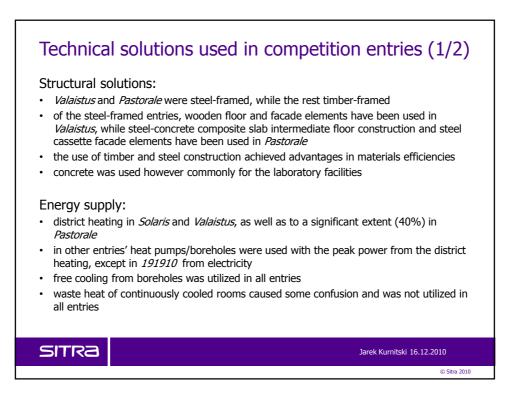
Jarek Kurnitski 16.12.2010

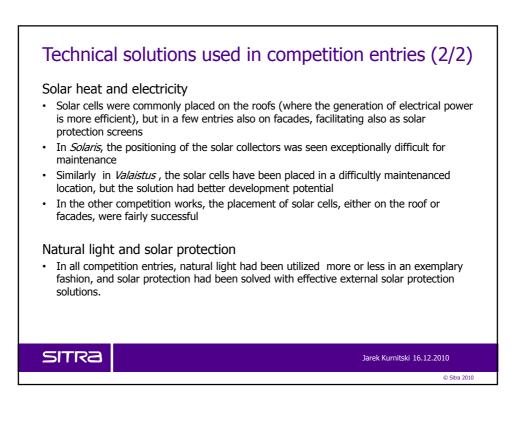
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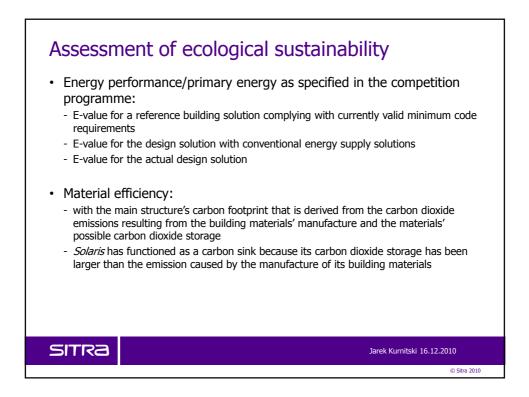
- quantitative criteria, described with performance based values
- measured with kWh, tCO₂ and M€ units

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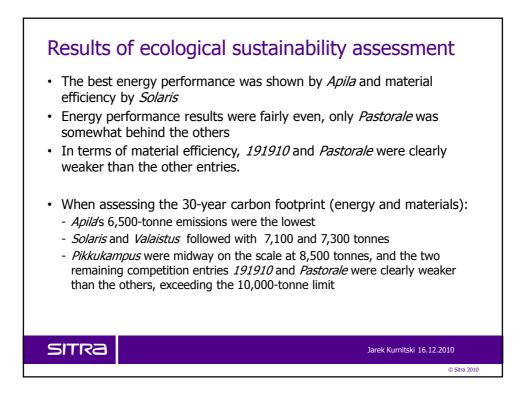


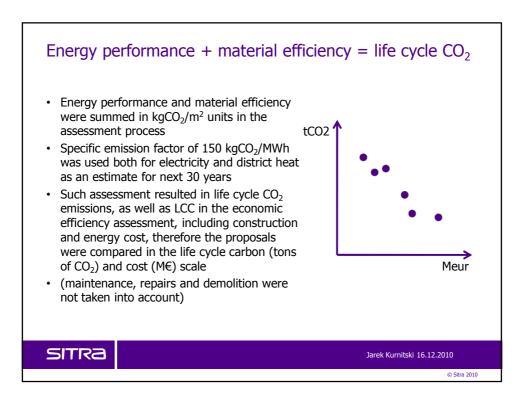


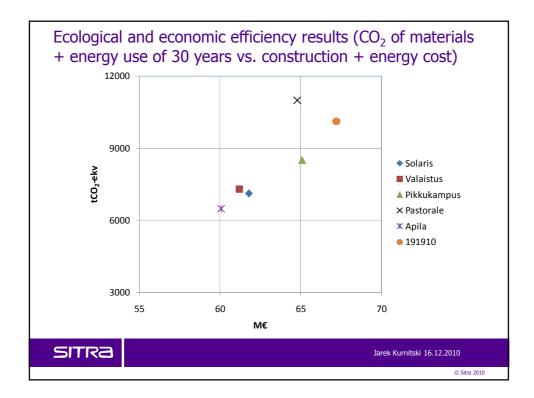


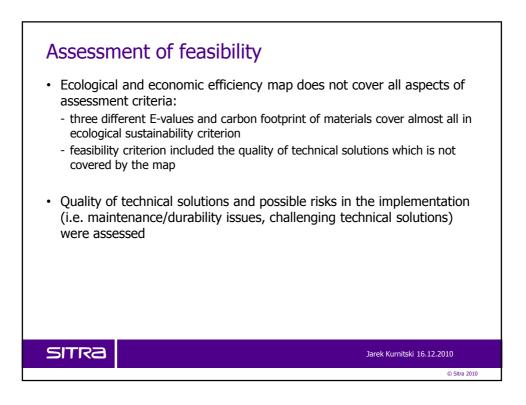


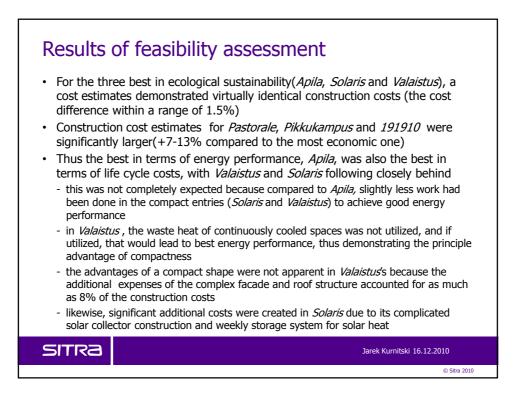
Kilpailutyö	1	2	3	4	5	6
	Solaris	Valaistus	Pikkukam	Pastorale	Apila	191910
Hyötyala, hym² (ohjelma-ala 12855 ohm²)	14000	13100	14600	15800	12700	14800
Huoneala, hum ²	18300	18800	18200	21500	19800	20400
Bruttoala, brm ²	20600	20300	20100	23600	21800	23800
Kustannusarvio, M€	54,9	54,6	58,5	57,7	54,1	61,1
E-luku, vähimmäisvaatimusten mukainen vertailuratkaisu, MWh/a	5104	4513	4575	4272	4523	4053
E-luku, suunnitteluratkaisu tavanomaisella energiantuotolla, MWh/a	3576	3517	3502	3631	3508	3281
E-luku, varsinainen suunnitteluratkaisu, MWh/a	2851	2765	2830	2985	2674	2780
E-luku, varsinainen suunnitteluratkaisu, «Wh/(ohm ² ,a) ilman käyttäjäsähköä	99	92	97	109	85	93
30 v energiankäytön hiilidioksidipäästöt, tCO2-ekv	7589	7146	6904	7726	6005	6102
Päärakenteiden hiilijalanjälki, tCO₂-ekv	-470	147	1600	3269	481	4013
Päärakenteiden hiilijalanjälki, kgCO ₂ -ekv/ohm ²	-37	11	124	254	37	312
30 v energiakäytön ja päärakenteiden niilijalanjälki yhteensä, tCO2-ekv	7119	7293	8504	10995	6486	10115

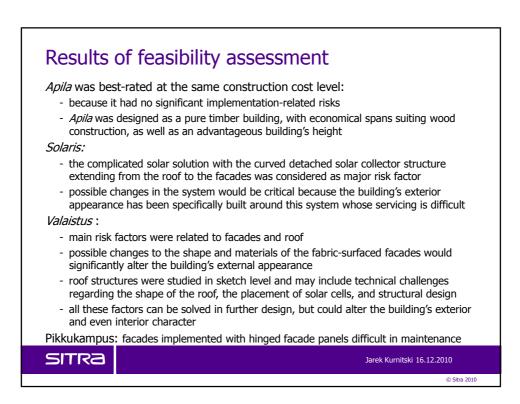












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