



A demonstration project co-financed by the European Commission. (TREN/04/FP6EN/S07.31838/503188)





SUSTAINABLE

ARCHITECTURE APPLIED TO REPLICABLE PUBLIC ACCESS BUILDINGS

COMMON SYMPOSIUM OF EU FP6 ECO-BUILDING PROJECTS, Berlin, 22nd - 23rd November 2005 Mike Barker, Project Coordinator Universitat de Barcelona

Sustainable Architecture Applied to Replicable Public-Access Buildings www.sara-project.net



Introduction

Buildings

Innovation

Summary

Conclusion

eco buildings

SUSTAINABLE ARCHITECTURE APPLIED TO REPLICABLE PUBLIC ACCESS BUILDINGS

Objectives: (x 7 buildings):

- > 30% reduction in CO2 emissions
- Reduction in the consumption of non-renewable energy sources
- Reasonable overcosts ~5% (<50 Euros /m2).
- Innovation
 - Integration of BMS data, monitoring and www based dissemination and training
- Instant Replicability
 - Near-market solutions
 - Specific plans for replication
- Strong dissemination plan
 - General Public
 - Professionals
 - Education & Training





The Magnificent 7

Austria Office/ Lab

France Primary School

Italy

Cultural centre (refurb.)

Slovenia Supermarket

Spain Health Care Centre

U.K. Uni. Services building

Uzbekistan Cultural centre (Refurb.)









Offices, laboratories and test facilities in Vienna, Austria (2900 m2)











Student Services Centre Uni. Of Southampton, UK (2600m2)















Supermarket in Ljubljana, Slovenia (5796m2)









Primary School in La Tour de Salvagny, France (2200m2)









ec<mark>o</mark> buildings





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Cultural Centre en Napoles, Italy (7500m2 refurb.)



novosa progetuare : venina venimpetto ambientare visto da mazza Gano III e dalle stade ortovalari



Cultural Centre in Bukhara, Uzbekistan (750m2 Rehab.)







Boukhara: medersa Rachid, la cour avec à droite l'Iwan photovoltaïque-image 3D (N. Detry - F. Marguin - R. Saleri -labo ARIA Lyon)



Primary Health Care Centre in Barcelona, Spain (3000m2)



Old facade design New facade design with shading

Innovation: BMS and Monitoring





WP8: Dissemination – from the start

- www.sara-project.net
- Newsletter
- Poster
- Targeted network (professionals)
- Awareness raising (users)
- Calender of events maintaining interest
- + Common dissemination activities: www.ecobuildings.inf







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sara Summarised





¿Who?

	Organisation	<u>Acronym</u>	<u>Country</u>	
1	Universitat de Barcelona	UB	Spain	
2	Institut Català d'Energia, GenCat	ICAEN	Spain	
3	Departament de Medi Ambient, GenCat	DMA	Spain	
4	Departament de Sanitat i Seguretat Social, GenCat	DSSS	Spain	
5	Business & Science Park Vienna	BSV	Austria	
6	Arsenal Research	ARS	Austria	
	(Österreichisches Forschungs- und Prüfzentrum Arse	nal Ges.m.b.H)		
7	University of Southampton	SOTON	UK	
8	Oxford Brookes University	OBU	UK	
9	Poslovni sistem Mercator	MERCATOR	Slovenia	
10	University of Ljubljana,	ULFGG	Slovenia	
	Faculty of Civil and geodetic Engineering			
12	Mairie de la Tour de Salvagny	TSALV	France	
13	HESPUL	HESPUL	France	
14	Comune di Napoli	NAP	France	
15	Association Tessellatus	TESSEL	France	
16	Zentrum für angewandte Forschung nachhaltige Energietechnik			
		ZAFH.NET	Germany	
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www.sara-project.net

Sources: Ministerio de Economía 2003, IEA Energy World 2004, Estrategia de Ahorro y Eficiencia Energética en España 2004-2012, Red Eléctrica Española



Thank you for your attention



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