IMPROVING BY SUSTAINABILITY IN SPORT FACILITIES

Susana Lucas, Armando Silva-Afonso and Victor Ferreira
Why Improving Sustainability in Sport Facilities?

How Improving Sustainability in Sport Facilities?

Where Improving Sustainability in Sport Facilities?

What we can conclude about?

When will be Improving Sustainability in Sport Facilities?
Some News

- Difficulty of Maintaining
- Difficulty in Get Money

Local authorities
Football clubs

Jornal Expresso, 6 Agosto de 2011
Green Goal™
FIFA has embarked upon an initiative to address environmental sustainability through the Green Goal™ programme – an initiative which FIFA fully expects its partners to embrace.

The principal goals of the programme are: the reduction in the consumption of potable water, the avoidance and/or reduction of waste, the creation of a more efficient energy system and an increase in the use of public transport to FIFA events.

These goals should contribute to the establishment of a neutral climate as far as greenhouse gas emissions are concerned. The programme, which began during the preparations for the 2006 FIFA World Cup™ in Germany, is one that will form part of FIFA’s legacy of the 2006 FIFA World Cup™ and should be extended to other FIFA events, especially future FIFA World Cups™.

Water
A more responsible use of potable water for purposes of irrigation should be examined. Green Goal™ suggests the storage of rainwater to support the water cycle. Further potential savings could be made through the installation of water-saving technology in sanitary fittings during the construction phase.

Waste
A major cost of stadium management is the removal of waste. To limit the amount of waste generated, Green Goal™ proposes the re-use of beverage containers, recycling through the separation of waste collection and the introduction of packaging-free food and merchandising products.

Energy
Energy-saving activities should be exploited in the design and construction of stadiums. Potential energy-saving areas include: the use of photovoltaic energy sources, the insulation and protection of glass on the outside of the building in order to reduce the use of air conditioning, and the use of centrally controlled building control systems to better manage energy during periods of peak demand.

Transport
An important area of stadium and event management is the transport of spectators to the facility. Green Goal™ encourages the avoidance of unnecessary transport and the use of public transport systems such as buses and trains, which should be designed to optimise engine and fuel systems.

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UEFA GUIDE TO QUALITY STADIUMS

Why   How   Where   What   When
Designing Sustainable Stadiums

SUSTAINABLE BUILDINGS

- Energy
- Water
- Materials
Designing Sustainable Stadiums

SUSTAINABLE ARCHITECTURE

• Comfort
• Safety
• Sensory Stimulation

Increase Connection
IMPROVING BY SUSTAINABILITY IN SPORT FACILITIES

SUSTAINABILITY

By 2015 we strive to be a carbon-neutral stadium.
IMPROVING BY SUSTAINABILITY IN SPORT FACILITIES
Stadium Letzigrund, Zurich

- Coverage Green;

- Heating with pellets;
Stadium Letzigrund, Zurich

- Promoting green transport;
- Waste management;
- Low Consumption in Lighting System.
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Amsterdam Arena

**Targeted energy uses - 2009**

In thousands of kilowatt hours per year - total 15,011

- Heating 6,521
- Turf 3,500
- Cooling 1,775
- Lighting 1,087
- Communications 598
- Running water 555
- Escalators/lifts 550
- Ventilation 730
- Other 195

**Why**

**How**

**Where**

**What**

**When**

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Amsterdam Arena
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Amsterdam Arena

Carolina Rusinek [C.Rusinek@amsterdamarena.nl]

En escrito a mensagem de Susana Lucas, 30-06-2013

Para: Susana Lucas
Cc: Gem Beenakker (Gem.Beenakker@amsterdamarena.nl), Frank de Leeuw (F.DeLeeuw@amsterdamarena.nl)

Assunto: [Assunto]

Re: [Assunto]

[Assunto]

Prezada Susana,

Estou escrevendo para informar que Frank está disponível para receber o dia 28 de junho às 11h. Ele está no estádio e pode ajudar na adequação do equipamento. Aproveito para enviar a mensagem de comunicação.

Best regards,

Carolina Rusinek
Project Manager

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Amsterdam Arena

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OUTLOOK

• Use of the resources, Energy;

• Waste Management;

• Transportation.
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IMPROVING BY SUSTAINABILITY IN SPORT FACILITIES
Sustainably Grateful!!!

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