

# SUSTAINABLE DANCE FLOOR™

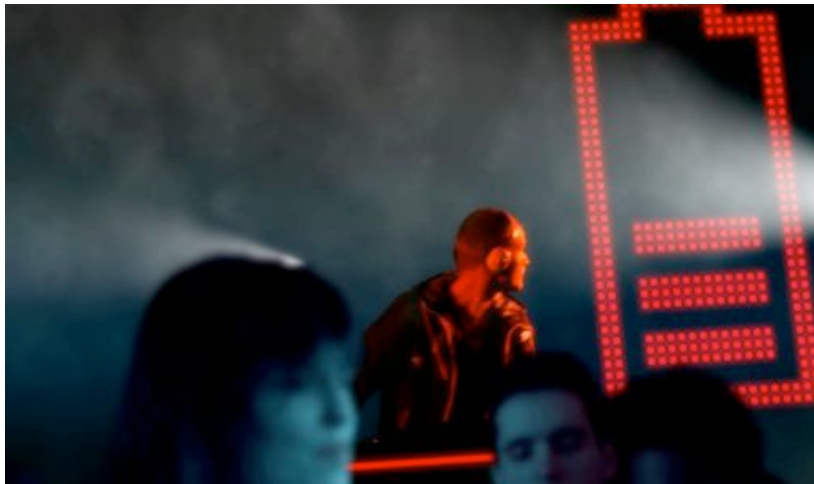
*Patent Pending*

## *Dance for energy*

The Sustainable Dance Floor™ is the first dance floor that captures the energy of dancing. The energy produced by movement is converted into electricity that makes the dance floor react to the dancer in an interactive way. The floor provides a unique visual experience on every energy level, from 'loading' and 'average', to the maximum level of the evening: 'ultimate high'!

All visuals are a continuous real-time interaction between the clubbers on the floor, allowing every individual's actions to contribute to the collective experience.

Making the clubbers aware of their own energy, their interaction and their impact on the 'environment' is the goal of the Sustainable Dance Club™.



## *Energy meter*

The generated energy is made visible by an energy meter and the floor itself. The energy meter shows the total level of the energy produced and builds up to a maximum. The more people dance, the faster the meter reacts.

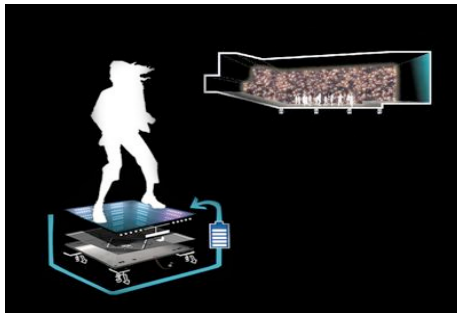


## Options

The Sustainable Dance Floor is available in a permanent and mobile version. The modular construction makes it possible to rent or purchase the floor (in both versions) in a variety of shapes and sizes with a current maximum of 68 tiles.

As a part of the mobile version we also hire out a complete dance floor showcase. This dance floor consists of nine tiles, an energy meter, a sound system and a plasma display. The plasma display includes a DVD-player, which shows a film about the development and technology of the dance floor. The floor can be easily transported and set up, providing a fun and eye-catching way to showcase sustainability at events, exhibitions and festivals all over the world.

A new version of the floor is now being developed that will allow the technology to be used for other applications such as gyms, stations and airports. Follow the developments at [www.sustainabledanceclub.com](http://www.sustainabledanceclub.com)



## How does it work?

The dance floor is a fusion of electronics, embedded software and smart durable materials. It consists of modules measuring 65 x 65 cm, each of which makes a vertical movement of up to about 1 cm when danced on.

These movements are transformed by an advanced electric motor into electric power. A person is able to produce 5-20 Watts of power, depending on his or her weight and activity on the dance floor.

The generated energy is then used to power the interactive elements of the floor. The technology of the dance floor is continuously being developed so that it is possible to use the generated energy for wider uses.



#### **Credits**

- Overall concept: Sustainable Dance Club™
- Basic concept: University of Technology Delft, Industrial Design
- Design and interaction: Studioroosegaarde.net
- Technical implementation of the basic concept: Advanced Electromagnetics BV in collaboration with University of Technology Eindhoven
- Electronics and software engineering: Ymif Engineering, The Hague, The Netherlands

#### **Photographers**

Marc Nolte  
Giullia Melloni  
Ronald van Heerik

For more information regarding prices, specifications and delivery please enquire by email or telephone.  
Please allow a week in order for us to write a customised proposal.

Contact:  
Sustainable Dance Club™  
Pannekoekstraat 106  
3011 LL Rotterdam  
The Netherlands  
+31(0)10 2762213  
sales@sustainabledanceclub.com  
[www.sustainabledanceclub.com](http://www.sustainabledanceclub.com)