The **Solar Handbag** generates two watts of electricity, which can be used to charge mobile devices or to illuminate its interior with optical fibres.

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The solar collectors are sewn right onto the exterior surface of the handbag.

The Solar Handbag is a black tote bag with an ingenious twist. It was created by Danish design studio DIFFUS (founded by Hanne-Louise Johannesen and Michel Guglielmi), in collaboration with the Alexandra Institute and Centre for Software Innovation. It has 100 silicon solar cells or 'power stations', which collect daytime sunlight and generate two watts of usable energy – enough to run a mobile device. Thus the carrier can keep his or her electronic devices charged throughout the day, even with low levels of sunlight exposure. At night, opening the the bag activates a set of interior optical fibres, shaped like cooking whisks, which glow to assist the user in his or her search for objects.

The handbag's solar 'sequins' have been woven into this self-conductive embroidery, which transmits all harvested energy to a rechargeable lithium ion battery tucked inside a small compartment. These components were developed through a joint research effort between Forster Rohner AG, a Swiss embroidery company, and two regional schools: the University of Applied Sciences Rapperswil and the NTB Interstate University of Applied Sciences of Technology, Buchs, Switzerland (also known as NTB Buchs). By turning monocrystalline silicon – the most efficient photovoltaic material in existence today – into these miniature decorative adornments and utilizing traditional textile-making techniques, DIFFUS and its partners have increased the material's possibilities for use in future textile products.

At present, many textile-based solar production in efficiency and aesthetics due to the of solar cells that the exterior and interior so can hold. The Solar Handbag is an importate forward in green fashion; its energy-harves maximizes design freedom as well as usefults trendy shape is more than simply fashion the handbag was designed to mimic an eclical alluding to the relationship between the subsetween the light source and the enlighten

In addition to art and design technologies, works with theoretical and practical application of architecture. The designers compare the of function and design in the Solar Handbar of nineteenth-century French architect Gustamous for designing the Eiffel Tower, in what armature is part of the splendour.

Where fashion and environmental concerns at odds, the fashion industry suggests that clothing and accessories are just as importar as the overall effort to improve and save our Indeed, as DIFFUS and its partners confirm fashions that utilize sunlight to create electron a significant role in our overall sense of well Other innovations from DIFFUS include the Dress, a garment with sensors and LED light into the fabric. Nicole Caruth

