



ETFE

MULTIFUNCTIONAL
MODULES

ETFE-MFM

DEVELOPMENT AND DEMONSTRATION OF FLEXIBLE MULTIFUNCTIONAL ETFE MODULE FOR ARCHITECTURAL FAÇADE LIGHTING



THE ETFE MULTIFUNCTIONAL MODULE

- Light-weight ETFE plastic
- PV module for electricity generation
 - Illumination devices (LED or OLED)
- Flexible integrated circuits for control of the PV and LEDs
- External battery for electricity storage

Ethylene TetraFluoroEthylene (ETFE) is a fluorine-based plastic which is lightweight, recyclable, transparent and strong. ETFE also has strong insulation properties, and can be integrated with illuminated devices, giving it large potentials for improving the energy efficiency and design of buildings.

ETFE-MFM will develop, evaluate and demonstrate a smart module that integrates various functionalities into ETFE textile architecture for Building-Integrated Photovoltaics (BIPV), lighting and energy storage.

The module will provide sustainable energy harvesting, as well as providing solutions for glazing, lighting and acoustic and thermal insulation.



ITMA Materials Technology (ES)
www.itma.es



Acciona Infrastructure (ES)
www.acciona-infrastructure.com



National Renewable Energy Centre (ES)
www.cener.com



Greenovate! Europe (BE)
www.greenovate-europe.eu



Solarion (DE)
www.solarion.net



Taiyo Europe (DE)
www.taiyo-europe.com

VISIT THE PROJECT WEBSITE AT WWW.ETFE-MFM.EU

Pictures provided by Taiyo Europe

Project Co-ordinator

David Gómez Plaza
ITMA Materials Technology
d.gomez@itma.es
+34 (0) 985 129 120

Communication & Dissemination

Simon Hunkin
Greenovate! Europe
simon.hunkin@greenovate.eu
+32 (0)2 400 1007



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