

## ENergy harVesting by Invisible Solar IntegratiON in building skins

ENVISION develops and demonstrates an integrated renovation concept exploiting all the available building surfaces (both vertical and horizontal, transparent and opaque) for thermal and electrical energy harvesting.

The ENVISION solutions focus on absorbing the invisible part of the solar radiation, the near-infrared (NIR), allowing at the same time the visible and esthetical aspects to be retained.

Thanks to ENVISION it will be possible to exploit the currently unused 60 billion square meters of facades existing in the European union, contributing to create a new generation of energy positive buildings.

### TECHNOLOGIES

#### **OPAQUE SURFACES**







2 - Covered solar heat collectors using colored NIR transparent glasses

#### TRANSPARENT SURFACES





3 - Smart ventilated heat harvesting window

Adopted Technology n° 1

4 - PV harvesting glasses

#### NORTHERN EUROPE DEMO

Netherlands - Helmond and Eindhoven









## PILKINGTON DEMO

Austria - Bischofshofen







Netherlands - Enschede





### SOUTHERN EUROPE DEMO

ITALY - Savona

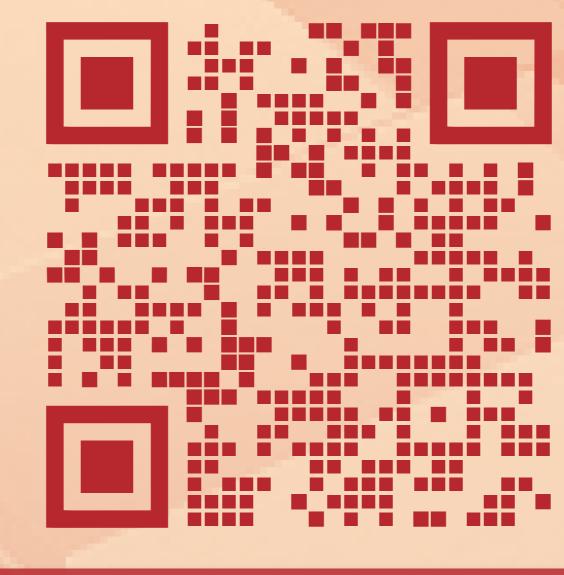
ROPE DEMO Adopted Technology n° 1-3











# www.energy-envision.eu















