



Sustainable Responsive Shading System

Fact Sheet

Project Information

AIRSHADE

Grant agreement ID: 855413

[Project website](#) 

DOI

[10.3030/855413](https://doi.org/10.3030/855413) 

Project closed

EC signature date

31 January 2019

Start date

1 February 2019

End date

31 July 2019

Funded under

INDUSTRIAL LEADERSHIP - Innovation In SMEs

Total cost

€ 71 429,00

EU contribution

€ 50 000,00

Coordinated by

ZNAOR NIKOLA



Netherlands

Project description

Self-powered intelligent shading system for buildings

Modern energy-efficient building facades have smart shading systems that can reconfigure themselves automatically, helping to regulate the brightness and temperature of the building interior in relation to external conditions. The EU-funded project AIRSHADE is developing the world's first air-powered shading system for buildings. The idea is that when sunlight warms the facade, the air inside the system heats up, expands and builds up pressure that pushes out the actuator and opens the shutters. When the environment cools (or sun intensity weakens), the shutters

close allowing more light to penetrate. Compared to state-of-the-art systems, AIRSHADE's system opens and closes according to the sun's intensity, thus regulating the temperature of the building, requiring no power or embedded sensors to operate.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > **[renewable energy](#)**

[social sciences](#) > [sociology](#) > [industrial relations](#) > **[automation](#)**

[natural sciences](#) > [physical sciences](#) > [astronomy](#) > [planetary sciences](#) > **[planets](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [information engineering](#) > [telecommunications](#) > **[mobile phones](#)**



Programme(s)

[H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs](#)

MAIN PROGRAMME

[H2020-EU.3. - PRIORITY 'Societal challenges](#)

[H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies](#)

Topic(s)

[EIC-SMEInst-2018-2020 - SME instrument](#)

Call for proposal

[H2020-EIC-SMEInst-2018-2020](#)

[See other projects for this call](#)

Sub call

H2020-SMEInst-2018-2020-1

Funding Scheme

[SME-1 - SME instrument phase 1](#)

Coordinator



ZNAOR NIKOLA

Net EU contribution

€ 50 000,00

Total cost

€ 71 429,00

Address

 Netherlands 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Last update: 19 August 2022

Permalink: <https://cordis.europa.eu/project/id/855413>

European Union, 2025