

Study on urban ventilation corridors and the impact of tall buildings

Metadata Export - GEO-WB6 GIS Portal

Export Date: January 25, 2026 21:02 | **Identifier:** 388527e1-0bdc-4d84-88e2-2ce8b5620d62 | **Resource Type:** Dataset

BASIC INFORMATION

Core identification information for the metadata record

Title: Study on urban ventilation corridors and the impact of tall buildings

Country: Bosnia and Herzegovina (bih)

Abstract: The Study on Urban Ventilation Corridors and the Impact of Tall Buildings (hereinafter referred to as the Study) is an integral part of the Green Action Plan (ZAP/GCAP) adopted in June 2021 (Official Gazette of the Sarajevo Canton, No. 25/21). The main objectives of the Study are: conducting an analysis of the possible impact on air flow and quality throughout the Sarajevo Basin by establishing new ventilation corridors, identifying areas/corridors where the construction of tall buildings should be restricted in order to improve air flow and quality throughout the basin. The study was conducted in the entire Sarajevo Basin using computational fluid dynamics (CFD), with GIS and meteorological data used for terrain and weather modeling. Taking into account the dominant east-west air direction, the Study identified two main ventilation corridors: - Miljacka Corridor - defined by the flow of the Miljacka River, extending from the east from the place where the Miljacka River enters the city (at Bentaša) to the western part of the city where it forms a meander (at the Halilović location). - Main Road Corridor - formed along the main road connecting the eastern and western parts of the city, extending from Marijin Dvor in the east to the Stupska Petlja location in the west. In addition to the two main corridors, additional ventilation corridors were identified at the local level: - Southern Longitudinal (defined by the following streets: Zagrebačka, Grbavčka and Zvornička), - Northern Longitudinal (defined by Ante Babić and Ive Andrić streets) and - Alipašina Street, which is located within the green belt. With the aim of protecting the existing routes through which the corridors are supplied with air, as well as preventing the negative impact of new buildings on the air flow in the corridors, the Study recommends measures to protect ventilation corridors and measures to improve the ventilation characteristics of the Sarajevo Canton.

Resource Type: Dataset

Language: English

Resource Locator: <https://zpr.ks.gov.ba/>; <https://vlada.ks.gov.ba/>; <https://zpr.ks.gov.ba/>; <https://www.atkinsglobal.com/>; <https://www.enova.ba/>; https://mpz.ks.gov.ba/sites/mpz.ks.gov.ba/files/zeleni_akcioni_plan_zap_gcap.pdf

INSPIRE Themes: EL: Elevation; PD: Population Distribution — Demography; GN: Geographical Names; HB: Habitats and Biotopes; MF: Meteorological Geographical Features; PD: Population Distribution — Demography; BR: Buildings

GRAPHIC OVERVIEW

■ [Open Graphic Overview in New Tab](#)

CLASSIFICATION AND KEYWORDS

Categorization and keyword information

Topic Categories: elevation, health, location environment, society climatologyMeteorologyAtmosphere, structure

Keywords: [Air Corridors](#) [Pollution](#) [Ventilation](#)

GEOGRAPHIC INFORMATION

Geographic extent and bounding box

Bounding Box: SRID=4326;POLYGON ((17.8662 43.5751, 17.8662 44.174, 18.7548 44.174, 18.7548 43.5751, 17.8662 43.5751))

Coordinate Reference System: Not specified

TEMPORAL INFORMATION

Temporal coverage and dates

Temporal Extent: 2021-06

Publication Date: 2021-06-01

Creation Date: Not specified

Last Revision Date: 2024-05-31

QUALITY AND CONFORMANCE

Data quality and standards conformance

Lineage / Provenance: • Law on Spatial Planning and Land Use at the Level of the Federation of Bosnia and Herzegovina (Official Gazette of the Federation of Bosnia and Herzegovina, No. 2/06, 72/07, 32/08, 4/10, 13/10, 45/10); • Law on Spatial Planning of the Sarajevo Canton (Official Gazette of the Federation of Bosnia and Herzegovina, No. 24/17, 1/18); • Law on Environmental Protection (Official Gazette of the Federation of Bosnia and Herzegovina, No. 15/21); • Law on Air Protection (Official Gazette of the Federation of Bosnia and Herzegovina, No. 33/03, 4/10); • Decision on the Protection and Improvement of Air Quality in the Sarajevo Canton (Official Gazette of the Federation of Bosnia and Herzegovina, No. 23/16);

Spatial Resolution: 5000

Specification: ISO 19139

Degree of Conformance: Conformant

ACCESS AND DISTRIBUTION

Access constraints and distribution information

Access Constraints: other Restrictions

Limitations on Public Access: Not specified

Available Formats: Not specified

Publication URL: <https://zpr.ks.gov.ba/>; <https://vlada.ks.gov.ba/>; <https://zpr.ks.gov.ba/>; <https://www.atkinsglobal.com/>; <https://www.enova.ba/>; https://mpz.ks.gov.ba/sites/mpz.ks.gov.ba/files/zeleni_akcioni_plan_zap_gcap.pdf

Service Endpoint: <https://zpr.ks.gov.ba/>; <https://vlada.ks.gov.ba/>; <https://zpr.ks.gov.ba/>; <https://www.atkinsglobal.com/>; <https://www.enova.ba/>; https://mpz.ks.gov.ba/sites/mpz.ks.gov.ba/files/zeleni_akcioni_plan_zap_gcap.pdf

CONTACT INFORMATION

Responsible parties and contact details

Responsible Party - Name: Government of Sarajevo Canton

Responsible Party - Role: Publisher

Responsible Party - Contact Name: Not specified

Responsible Party - Email: sszp@sszp.ks.gov.ba

Responsible Party - Website: <https://sszp.ks.gov.ba>

Contact Email: sszp@sszp.ks.gov.ba

Metadata Contact - Name: Government of Sarajevo Canton

Metadata Contact - Role: Metadata Contact

Metadata Contact - Contact Name: Metadata Contact

Metadata Contact - Email: sszp@sszp.ks.gov.ba

Metadata Contact - Website: Not specified

METADATA DETAILS

Information about this metadata record

Metadata Language: English

Metadata Date: 2025-10-30

Unique Identifier: 388527e1-0bdc-4d84-88e2-2ce8b5620d62

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This is an automated export of metadata information.