



Sofia Municipality Sustainable Energy and Climate Action Plan 2021-2030

*3rd Balkan Forum titled "SUSTAINABLE DEVELOPMENT OF THE BALKANS IN THE POST COVID ERA"
September 24th to 25th 2021
Thessaloniki.*





Strategic development

- ✓ **2011**
Covenant of Mayors of EU
Sustainable Energy Action Plan (mitigation)
22 % GHG emission reduction to 2020; 2007 – base year

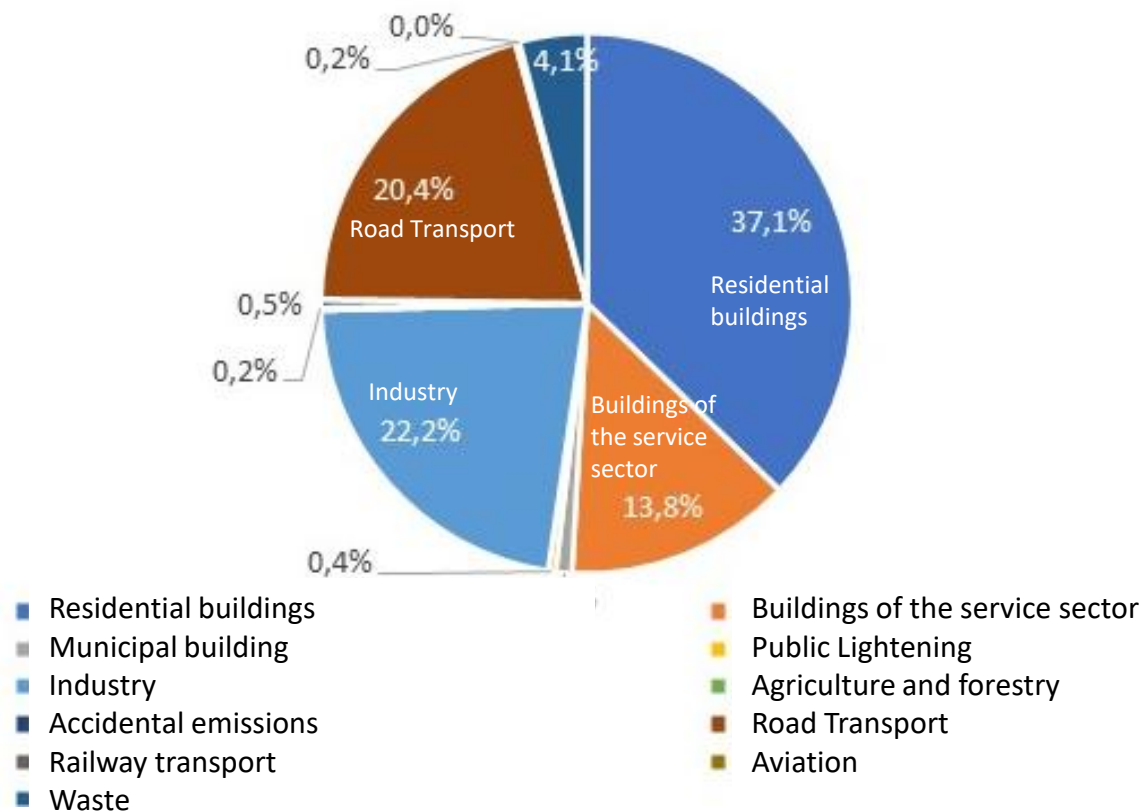
- ✓ **2015**
Compact of Mayors of UN
Risk & Vulnerability Assessment (adaptation)
Climate Change Adaptation Strategy

- ✓ **2019**
Climate Change Adaptation Action Plan
Global Covenant of Mayors for Climate and Energy
Trees in Cities initiative

- ✓ **2020**
Green City Action Plan with support of EBRD

- ✓ **2021**
Sustainable Energy and Climate Action Plan 2021-2030 (to be adopted by Municipal Council in October 2021)
40 % GHG emission reduction to 2030
National EE, RES and biofuels

Shares by sectors of greenhouse gas emissions for 2018.



Scope of the plan, 2021-2030

Mitigation

Residential buildings (mandatory)
Service sector buildings (mandatory)
Municipal buildings (mandatory)
Transport (compulsory), excluding
aviation (optional)
Waste
Public lighting
Industry and construction

Adaptation

Water
Forestry and agriculture
Urban planning
Civil Protection
Environment and biodiversity
Waste
Buildings
Transport
Tourism
Human health

Strategic goals in the field of energy and climate of Sofia Municipality

Strategic goal 1: Sofia - climate-neutral city

Transforming Sofia into a carbon-neutral city by 2050 by applying the highest standards in terms of energy efficiency and transformation of the energy mix to the use of energy from renewable sources with an emphasis on shared energy production and consumption at the local level.

Strategic goal 2: Sofia - resource efficient city

Development of Sofia according to the principles of the circular economy with an emphasis on the protection of the environment and biodiversity and the creation of comfortable and healthy living conditions and professional realization of the citizens.

Strategic goal 3: Sofia - adaptive city

Increasing the adaptation capacity of Sofia Municipality to deal with the negative impacts caused by climate change by developing the regulatory framework and institutional capacity, attracting the attention of the public and business, implementing environmentally friendly solutions for adaptation and increasing opportunities for prevention and improvement of preparedness and reaction in case of extreme weather events.

Specific goals

Mitigation

1. Reduction of greenhouse gas emissions per capita by 40% by 2030 compared to 2007 levels.
2. Reduction of the annual final energy consumption by 800 GWh by 2030 compared to 2018.
3. Achieving annual final consumption of energy from renewable sources 700 GWh by 2030
4. Implementation of a full-fledged information provision system for the purpose of reporting on climate change mitigation measures and future planning
5. Providing broad public support of climate change mitigation policies

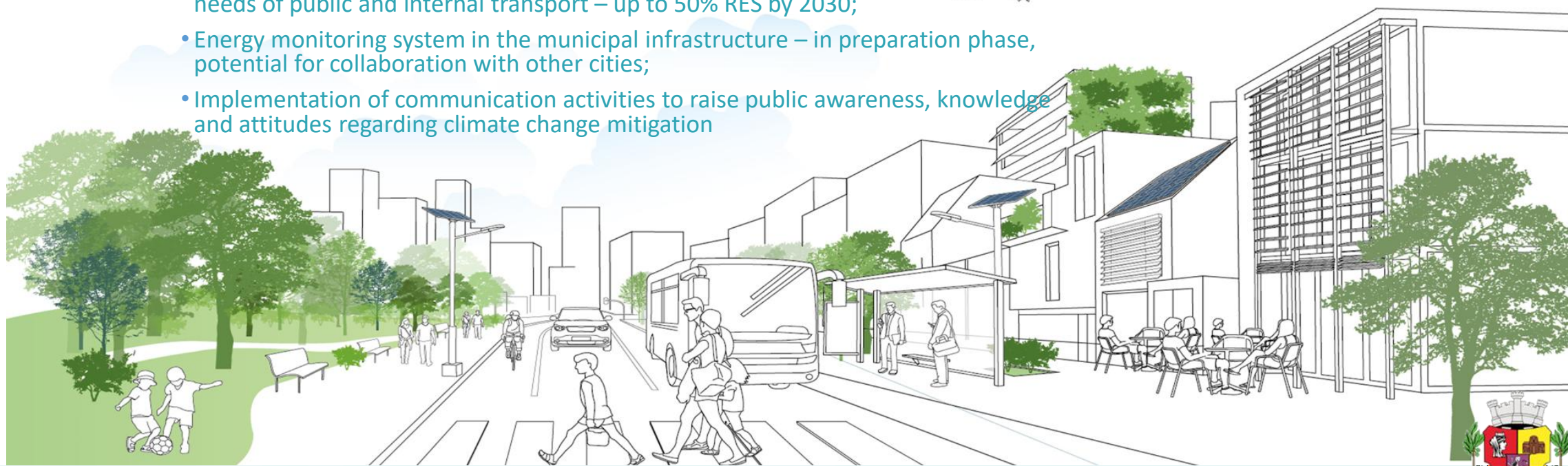
Adaptation

1. Creating a normative, institutional and planning basis for the implementation of adaptation measures
Implementation of a system for information and analytical security regarding the adaptation
2. Improving the assessment of impact indicators for high climate risks in each sector at the end of the planning period
3. Raising public awareness and knowledge about adaptation and creating a positive attitude towards key measures related to it

New Perspectives and Policies of Cohesion and Development Tools for Strengthening the Interregional Cooperation in the Balkan area

Mitigation (29 measures)

- EE renovation of municipal buildings to the highest cost-effective level – up to 300 000 m²;
- EE renovation of 200 multifamily residential buildings to the highest cost-effective level;
- Gradually increase of the share of electricity from renewable sources to meet the needs of public and internal transport – up to 50% RES by 2030;
- Energy monitoring system in the municipal infrastructure – in preparation phase, potential for collaboration with other cities;
- Implementation of communication activities to raise public awareness, knowledge and attitudes regarding climate change mitigation



New Perspectives and Policies of Cohesion and Development Tools for Strengthening the Interregional Cooperation in the Balkan area

Adaptation (36 measures)

- Creating "blue-green" arches for coolness in an urban environment and blue and green acupuncture, including interblock spaces, pocket parks, etc.
- Landscape measures to accelerate the growth of trees – innovative irrigation systems, equipment and technologies for shaping tree crowns, study of the combined benefits of ecosystem services of individual massifs, groups and individual trees, including the possibility to increase the carbon sequestration potential of urban greenery, etc.
- Improving the technical provision for rapid response to fires in forest, agricultural areas and urban areas - specialized machinery and equipment for fire prevention and fire extinguishing



Financial resources for the implementation of the plan





Ongoing projects

Replacement of heating devices with eco alternatives in over 5500 households - 1 stage of the project.

Large-scale program for improvement of inter-block spaces and elimination of area sources of dust - over 30 sites for 2021

Photovoltaic installations for own needs in the Sofia Zoo with a capacity of 280.5 kWp



Thank you for your attention!



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