



Seventh International Forum on Energy for Sustainable Development

Workshop
Promoting Energy Efficiency in Azerbaijan and Other
Countries of the Region

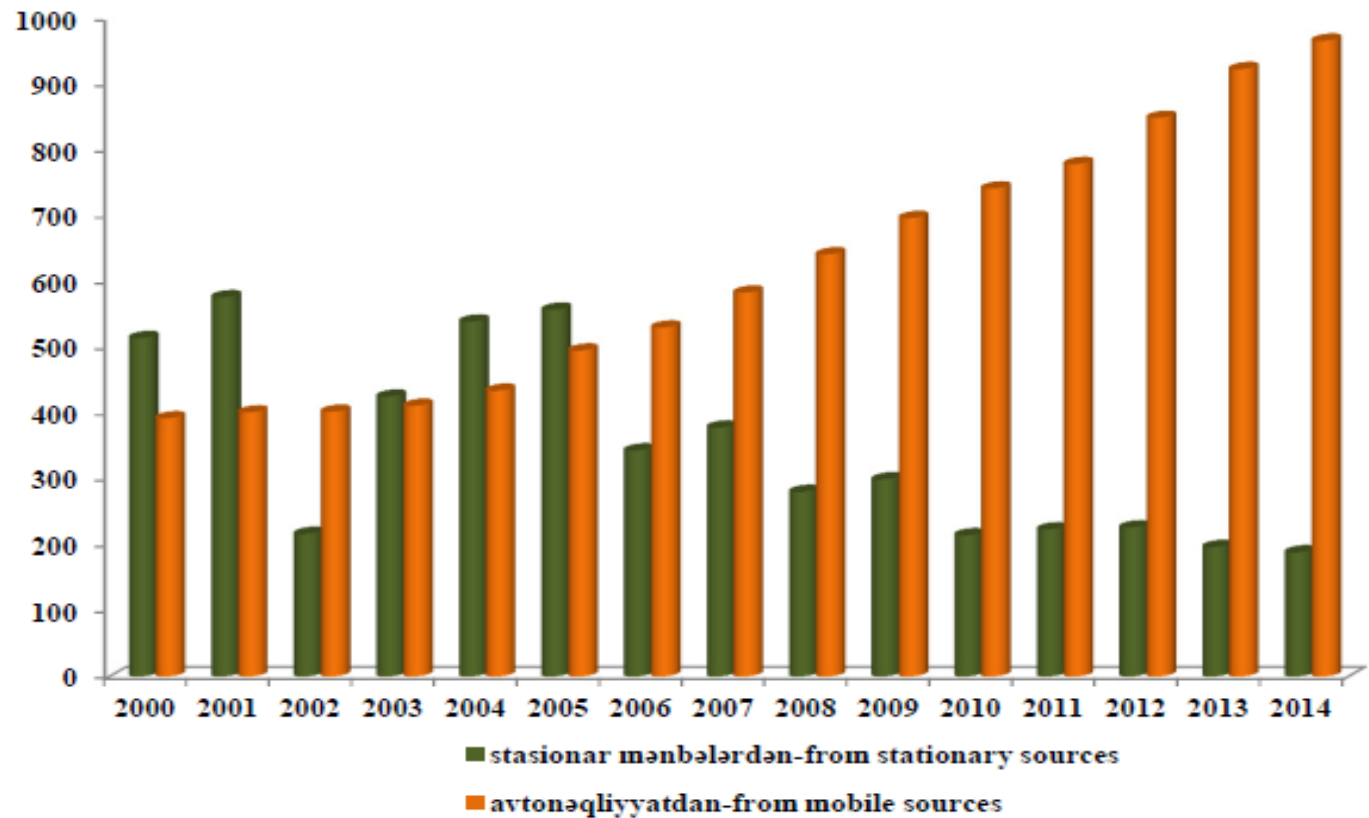
Baku 18-21 October 2016

Nazim Mammadov
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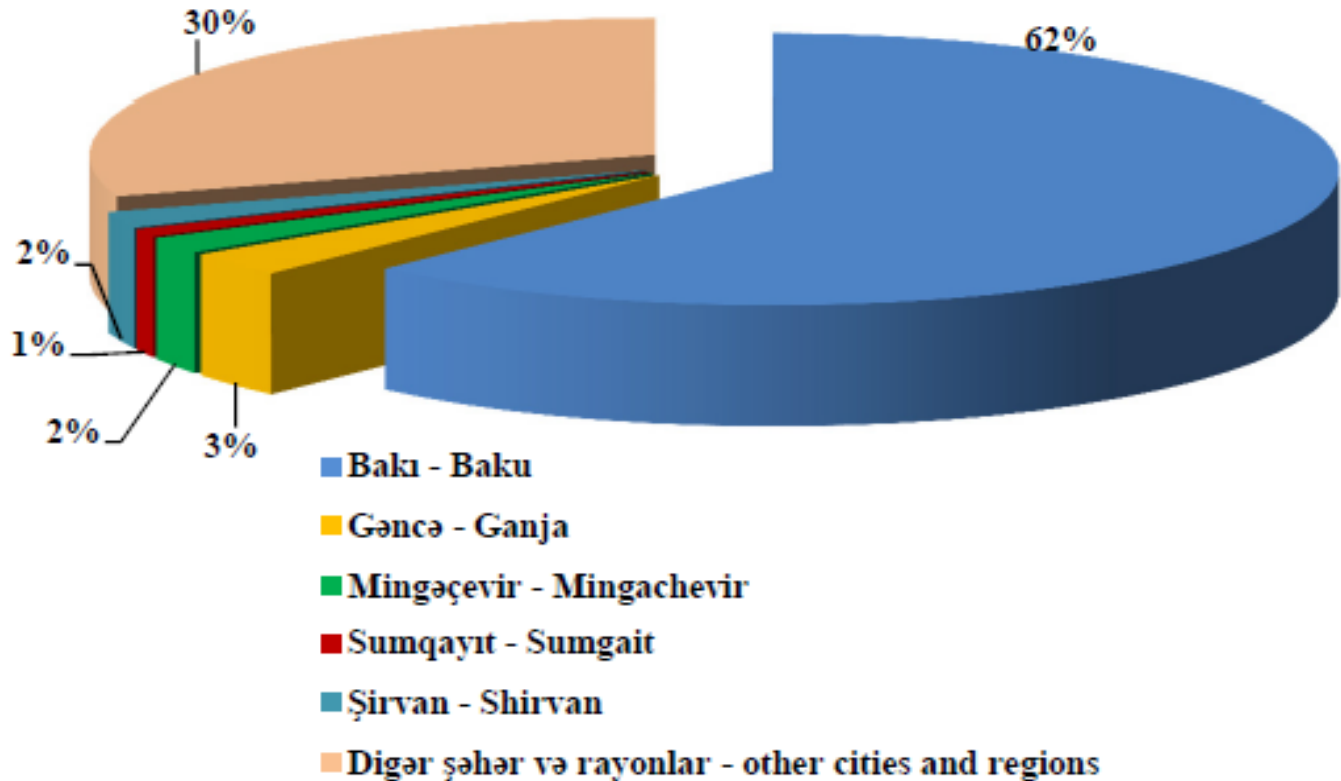
Country context and challenges

- Oil and gas production has reached its peak, thus there is a need to establish a viable strategy for managing and utilizing its energy resources, including introduction of EE and renewable energy technologies;
- Sustainable economic development of Azerbaijan is associated with intensive energy consumption. As a result of increase of energy end-use in the residential, power and transportation sectors baseline GHG emissions are projected to reach 115,6 Mt CO₂ by 2025;
- SOCAR, as one of the biggest company in the region, and a major contributor of GHG emissions (gas flaring and ventilation, other production losses) is committed to reduce its own emissions by 40% by year 2020.

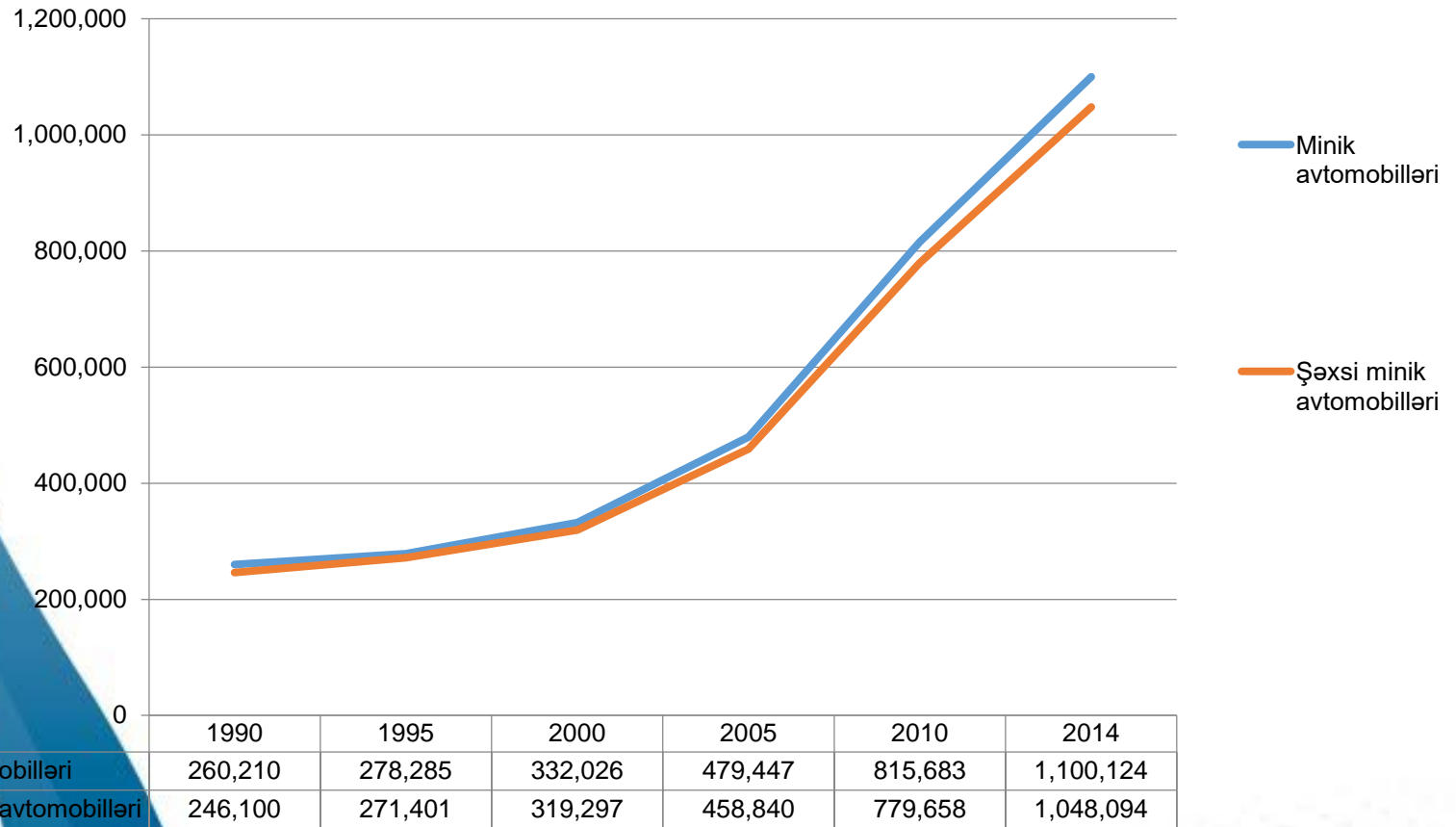
Atmosfer havasına atılan çirkləndirici maddələr, min ton
Air pollutant emissions, thsd.ton



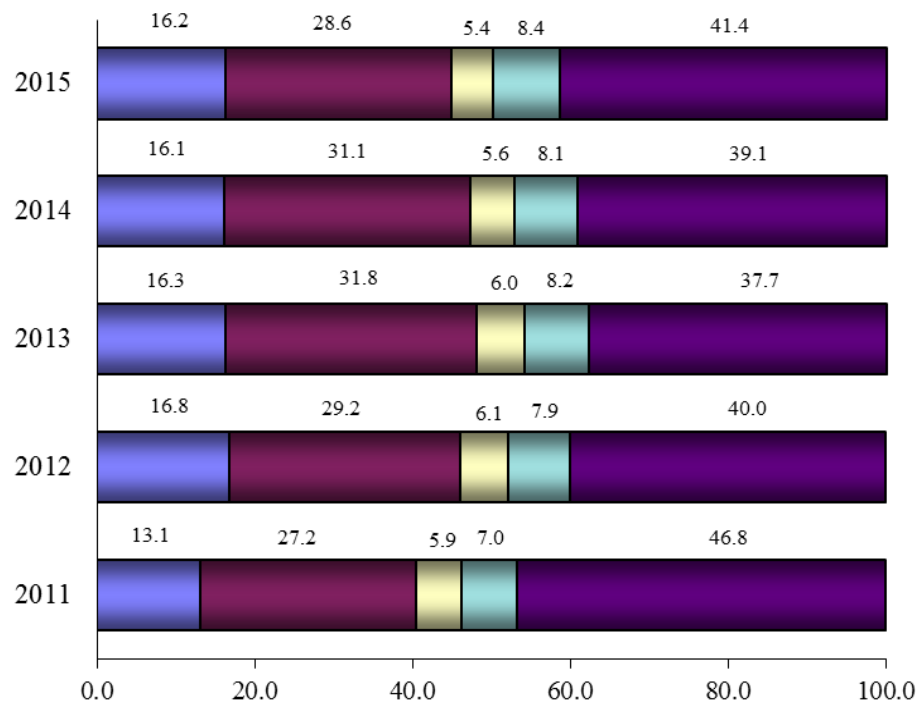
**2014-cü ildə ayrı-ayrı şəhərlər üzrə avtomobil nəqliyyatından
atmosferə çirkləndirici maddələrin atılması, faizlə**
*Emission of air pollutants from mobile sources
by different cities in 2014, in percent*



Dynamics of annual growth of transportation fleet of Azerbaijan



Final energy consumption by active types of economy, in percent



- Industry and construction
- Transport
- Agriculture, forestry and fishing
- Commerce and public services
- Households

UNDP/GEF supporting the country

- To address the current challenges, the Government of Azerbaijan plans to carry out definition, design and implementation of NAMAs in key oil and gas sectors, with focus on promotion with low carbon technologies, energy efficiency in buildings and energy efficient transportation technologies;
- UNDP/GEF is helping the country to address the challenges through the implementation of “Nationally Appropriate Mitigation Actions for low carbon end-use sectors in Azerbaijan” Project.



General information on the project



AZƏRBAYCANIN YANACAQ VƏ ENERJİ İSTEHLAKI SEKTORUNDA
KARBON EMİSSİYALARININ AZALDILMASINI TƏMİN EDƏN
MİLLİ FƏALİYYƏTLƏR PLANI LAYİHƏSİ

| | |
|------------------------|------------------|
| Starting date: | June 2015 |
| Duration: | 5 years |
| Completion: | June 2020 |
| Total budget: | 3 770 000 USD |
| Donors of the project: | GEF, UNDP, SOCAR |

Objectives and main tasks

Objective:

Implementation of energy efficient technologies and methods at the facilities of SOCAR and reduction of GHG emissions

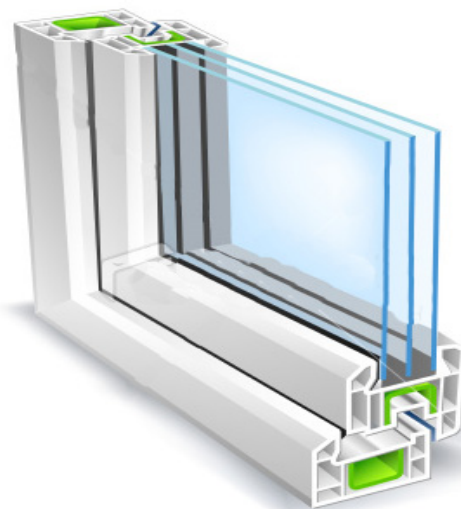
Main tasks:

- Use of international experience at the existing and newly constructed buildings
- Use of alternative and EE fuels at the transportation fleet of SOCAR and eco-driving
- Raising the awareness of SOCAR staff in the EE methods
- Improvement of GHG inventory and monitoring systems

Nationally Appropriate Mitigation Actions

- Energy Efficiency in buildings /heat consumption
- Energy efficiency in transportation and eco-driving
- Flaring and ventilated gas capturing at SOCAR facilities
- Innovation, sustainability and replicability by a wider range of sectors

Energy Efficiency in buildings /heat consumption



- NAMA 1 – SOCAR's Green Building Programme by Implementation of demo projects **10,500 t CO_{2eq} emissions will be avoided**

Energy efficiency in transportation



- NAMA 2 – Sustainable Transport
 - GEF support will be sought to fund the incremental costs of new technologies (up to 40%) for demonstration activities, switching from fossil fuel to electricity (project lifetime – 10yrs.) – **98.2 t CO_{2eq}**
 - 20% of car users and 50% of heavy vehicles will be undergoing energy efficient driving practices (project lifetime – 10yrs.) – **1,495 t CO_{2eq}**

Flaring and ventilated gas capturing at SOCAR facilities



- NAMA 3 – Gas capturing Programme
approx. 600 households in closest villages to Siyazanneft will be connected to natural gas grid using captured associated gases.

Total direct emission reductions **549,044 t CO_{2eq}**

Project features

- Innovation
- Sustainability
- Replicability by a wider range of sectors



Thank you for attention !

