“Tbilisi – the capital of a future carbon-neutral country”

President of Georgia

Economic Affairs Office
Tbilisi City Hall

Ketevan Karenashvili
Officer responsible for ENP affairs

Economic Policy Agency
Tbilisi City Hall

Tbilisi
The city that loves you

Covenant of Mayors
Committed to local sustainable energy

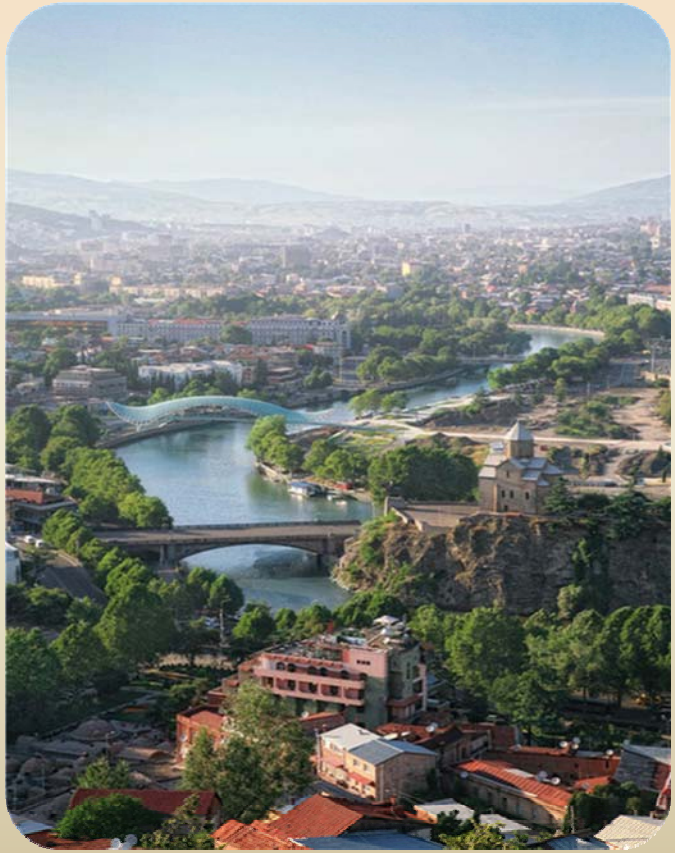
Tbilisi

OVERVIEW

Area populated since 5th century, BC
Capital since 5th century, AD

Population: 1.2 million
City area: 500 sq. Km

Urban area: 126 sq. Km
City Board Perimeter: 150 Km.
Length of City: 19,28 Km.
Width of City: 16,35 Km.



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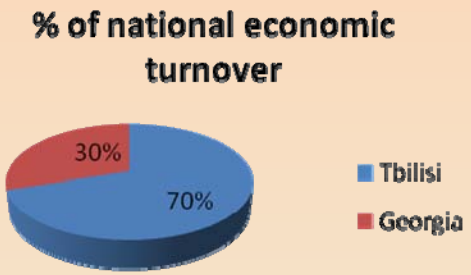

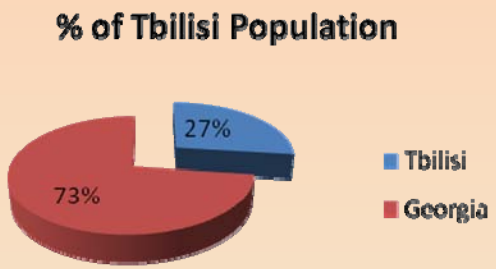

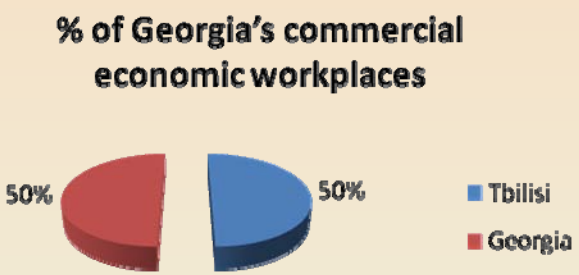

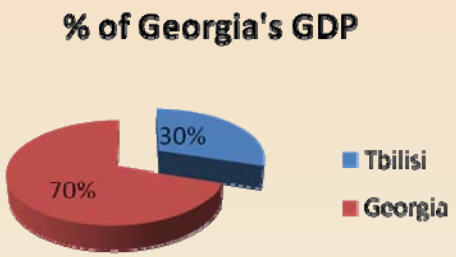

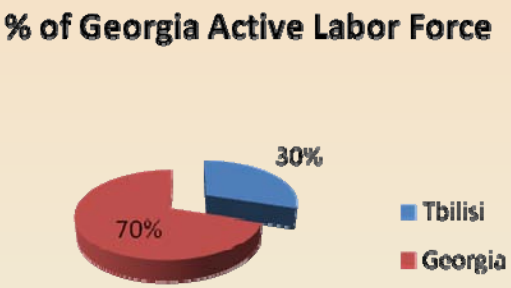

Tbilisi generates 70% of national economic Turnover

Tbilisi generates almost 50% of Georgia's commercial economic workplaces

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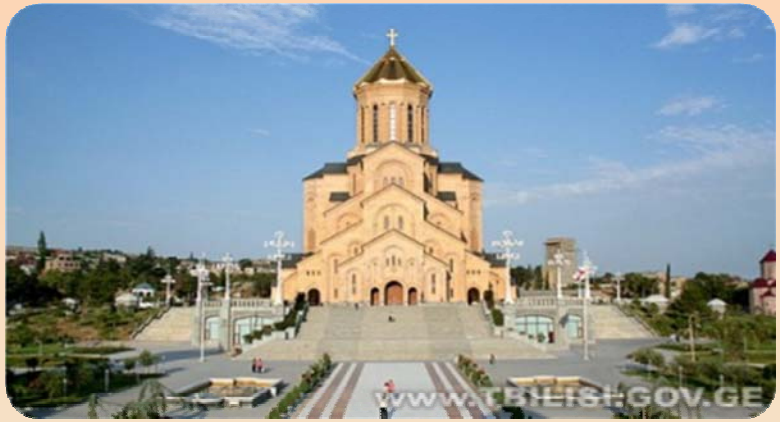
Values



Tolerance
Respect
Humanism
Caring
Living traditions

Warm & welcoming
Charming & addictive
Creative
Eclectic
Tasteful

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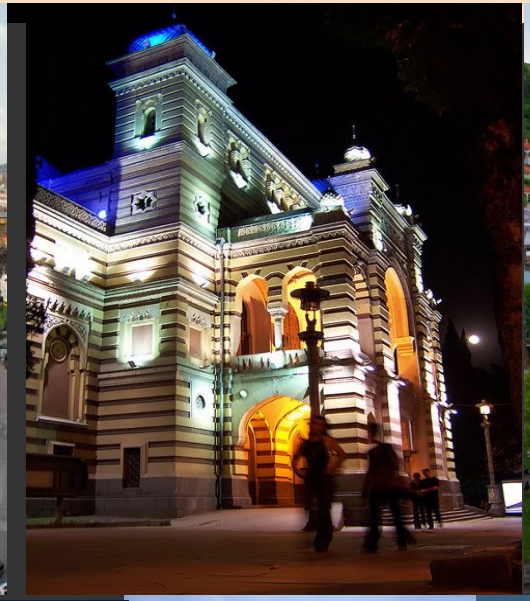
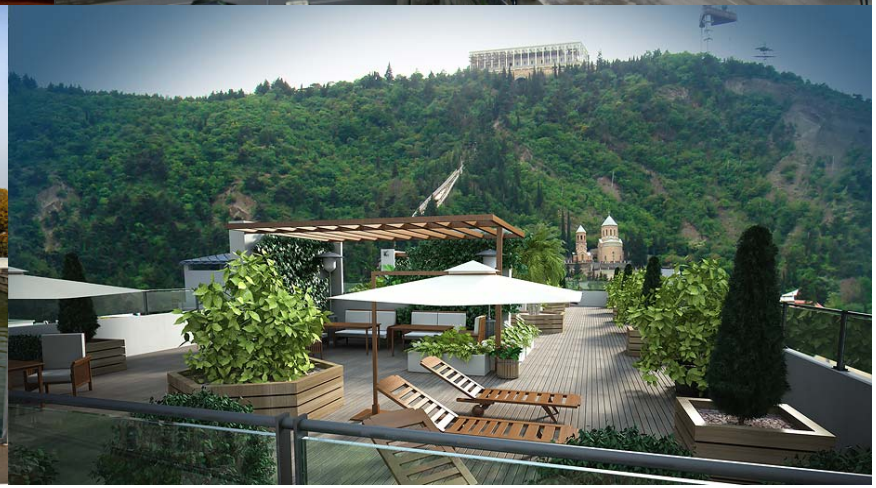
ATTRACTIVNES

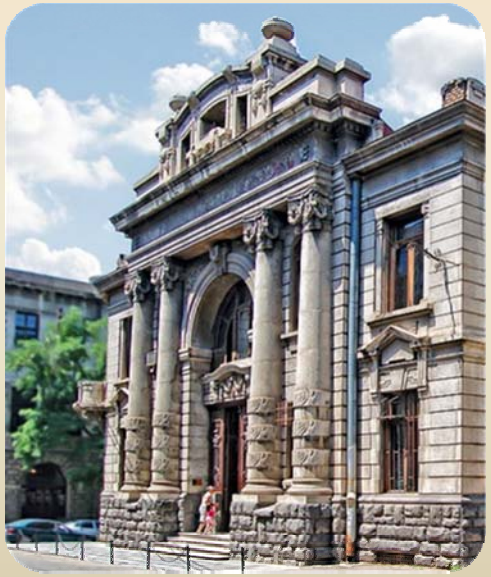




Tbilisi

Style

Art Nouveau
Renaissance
Gothic
Mauritanian
Baroque
Eclectic
Green



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Jazz Festivals

Fashion Shows

Conferences and Forums

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Meeting Point of ENP and Eastern Partner Activities

Tbilisi Chair of ENP and Enlargement WG

1st CoM Conference *"Go East"* after Brussels in Tbilisi

Role of Local Authorities in ENP *(TAIEX)*

Open Days

Energy Days

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Sustainable Energy before CoM

"Energy Efficiency Plan for Municipal Buildings" (Cooperation with Norwegians and Energy Efficiency Center)

Starting from 2005- 2008, *ENSI – "Energi Saving International"*

Preparations of Energy Audits have been conducted in Municipal Buildings

Elaboration of energy Data Base for the Municipal Buildings financed by City Hall

Adopting Energy Efficiency Concept of the Capital

Awareness raising in Society

Involvement of Private Sector and NGO's

Covenant of Mayors

Covenant of Mayors was signed on March 30, 2010

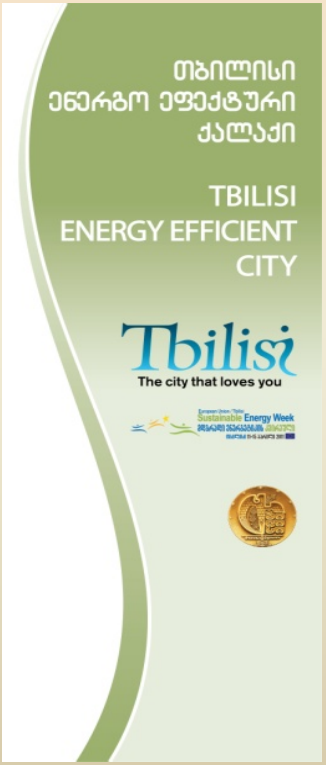
1st Capital in the Region Signing the Covenant

Prepared SEAP in 1 Year

Developed new methodology for Tbilisi case

Organizing Energy Week

Raising awareness in the Region



Georgia is a Non-Annex 1 country under the UN Framework Convention on Climate Change (UNFCCC)

Tbilisi

Involvement and Input of International Organizations, Ministries, NGO's

Ministry of Energy and Natural Resources

Ministry of Economy and Sustainable Development

Ministry of Environmental Protection

Tbilisi

Sustainable Energy Action Plan (SEAP)

Overall strategy for the greenhouse gas emissions reduction

Development of methodology for cities from Non-Annex 1 countries

Baseline Emissions Inventory (BEI) and Business As Usual (BAU) Scenario for Tbilisi

Abatement measures for the period until 2020

Role of Tbilisi City Hall

Public Awareness Raising

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Strategic Vision

***Transport Sector**: (municipal fleet; public transport; private and commercial transport)*

Short- term strategy(2011-2015) : **A rehabilitation and development of transport infrastructure** (Improved road infrastructure, Establishment of street light management center: green waves, Changing of Traffic Lights, Crossroads Regulation, etc.)

Mid-term strategy(2012-2018) : **To increase the share of public transportation within a total passenger turnover**

(Modernization of Pubic Busses, Improvement of Public Transport (PT) service, Popularization Campaign for Public Transport, Alternative PT modes, electric transport, etc.)

Long-term Strategy (2018-2020): **To decrease the mobility of private cars and encouraging low emission cars by means of various restrictions and incentives**

(environmental islands, parking management, pricing, etc.)

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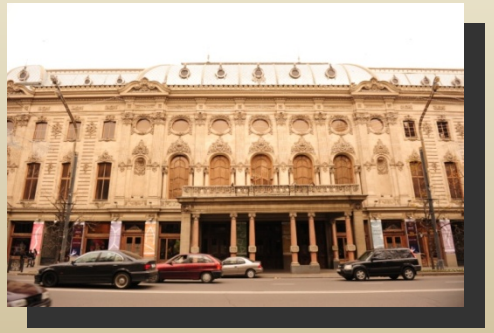
Strategic Vision

Building Sector *(municipal buildings; tertiary (non-municipal) buildings; residential buildings)*

Short-term strategy (2011-2015) : To increase efficiency of heating systems and the share of renewable energy in the heating (geothermal energy, biomass and solar energy) sub-sector within the municipal building stock (kindergartens, policlinics).

Mid-term strategy (2014-2017): To apply the same measures to public buildings that are not under administration of the Tbilisi Municipality (schools, state agencies etc);

Long-term strategy (2015-2020): To increase energy efficiency the share of renewable energy in heating will grow in the residential building stock.



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Strategic Vision

Municipal Infrastructure:

Landfill management: Landfill gas (LFG) collection and flare from 2 closed and new landfill sites

Waste water management: Overall rehabilitation of Gardabani WW plant to the designed capacity, Rehabilitation of the plant secondary treatment facilities (methane-tank, digester) for recovery and utilization of methane gas

Outdoor Lightening – Intelligent Street Lighting Management Centre

Green Spaces - Improve management of city forest and existing green parks

Electricity and Gas Distribution Network – reduce losses

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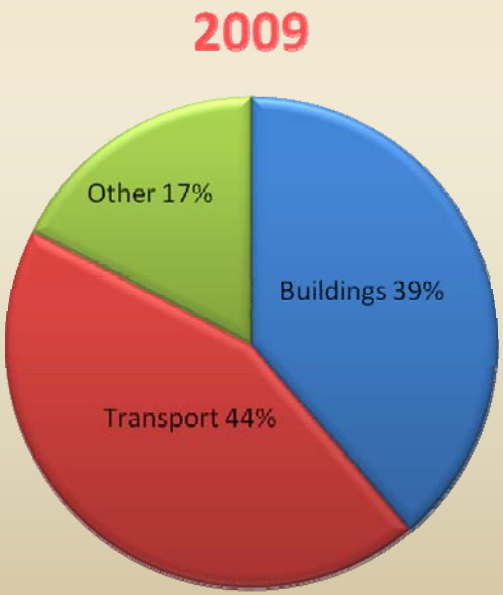
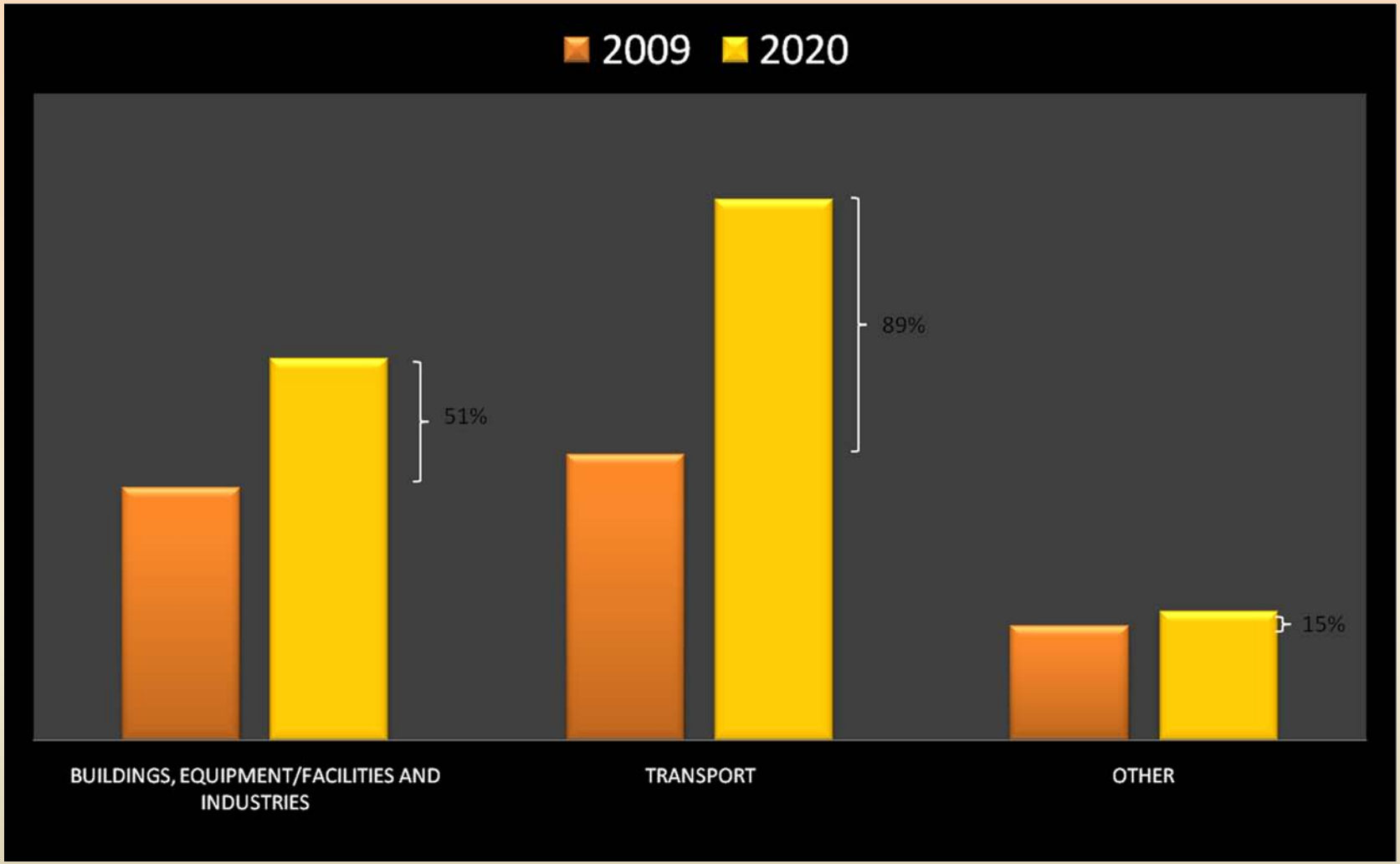
Baseline Inventory and BAU Scenario

Long-range Energy Alternatives Planning System (LEAP) and EcoRegion softwares have been used for the assessment of baseline (2009) emissions from the Tbilisi City and for the development of BAU scenario. LEAP is a widely used software tool for climate change mitigation assessment developed at the Stockholm Environment Institute. It has been used by more than 85 countries as part of their commitment to report to the U.N. Framework Convention on Climate Change (UNFCCC).

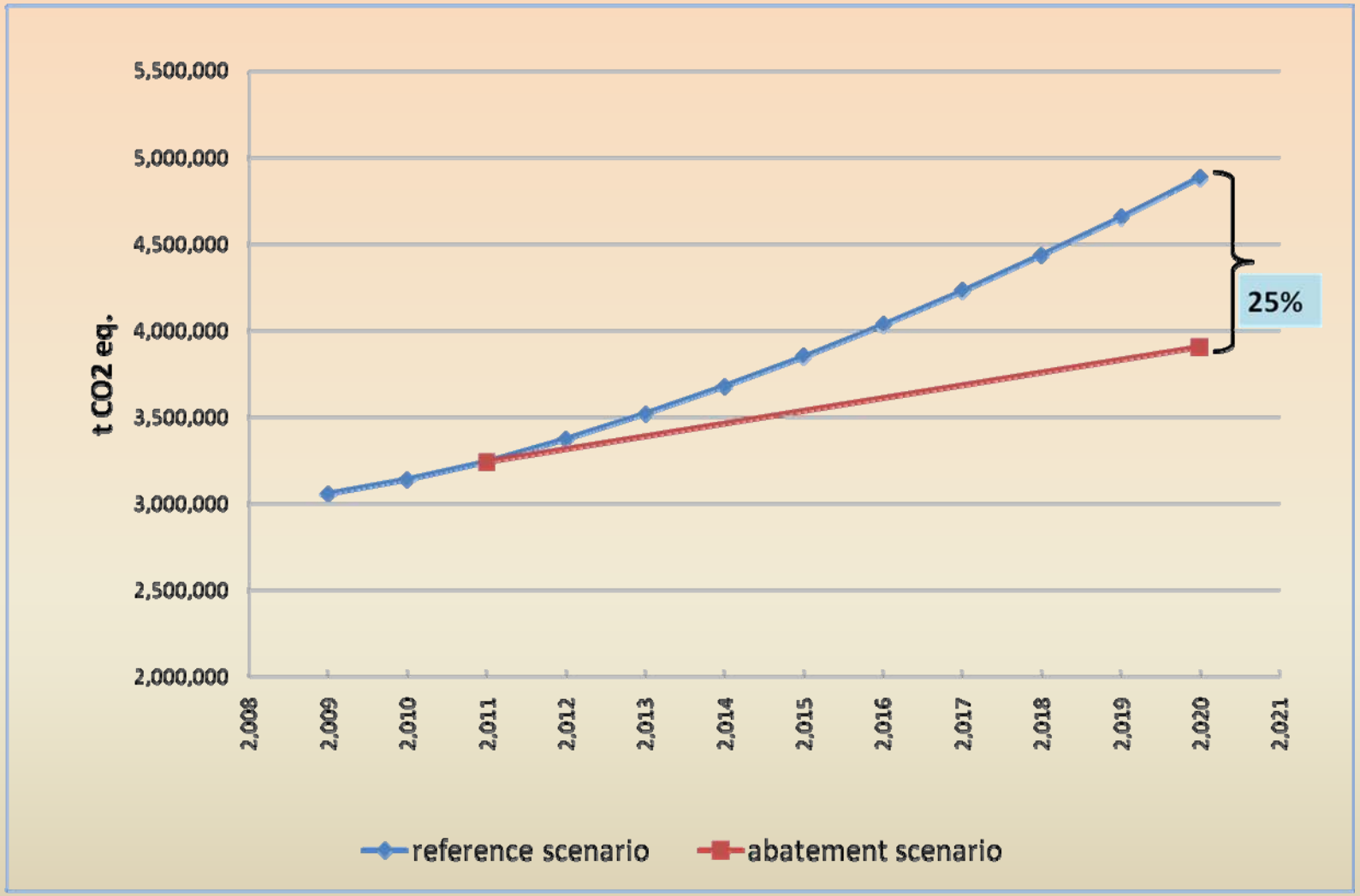
CO_{2eq} emission share from sectors considered in Tbilisi City SEAP



Increase of emission in BAU Scenario by sectors



BAU(reference) and abatement scenarios for Tbilisi City SEAP



Tbilisi's Offer to Eastern Neighbours – CoM Branch Office

- Tbilisi – Leader city and strategic center of the region
- Tbilisi – first capital city in Eastern Partnership initiative to sign the Covenant of Mayors
- Tbilisi – Fulfilling the assigned responsibility and Preparing SEAP by the end of March 2011, developing new methodology for the cities from non -Annex1 countries
- Tbilisi – utterly serves the idea of "CoM Going East", which at the same time was the title of the CoM conference held in October 2010 in Tbilisi first time after Brussels.
- Tbilisi – focal point for CoM popularization in Caucasus and Central Asian cities, where the CoM is not as recognizable as in Europe
- Tbilisi – initiator of informative events to bring Georgian cities together in CoM
- Tbilisi – the capital of a future carbon-neutral country
- Tbilisi – at CoM's disposal in logistic arrangements (Free space for the branch office)
- Tbilisi – the most appropriate climate and spirit for meetings and events during all 4 seasons

Tbilisi

THANK YOU

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Tbilisi City Hall

economic@tbilisi.gov.ge

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