Urban governance and contribution of climate change consideration and energy efficiency: case study of Hashtgerd new town-Iran

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Focus of presentation

1. Presenting concept related to urban climate governance and energy efficiency.

2. Analyzing the current situation of urban governance system in Iran

3. Best actions and policies that could change the local government of Hashtgerd new town in Iran, to a key and effective elements to develop and optimum execution of urban energy consumption and decrease of CO2 gases.

4. Presenting proposed local climate action plan for New Town of Hashtgerd, for integrating and coordinating local government in Hashtgerd new town that have a specific look on energy consumption optimization, decreasing of CO2.
Presenting the concept (state of the art)

Key determinants for governing climate change and energy efficiency in cities

Roles of the municipality in local climate change policy (Modes of urban climate governance)
- self-governing (municipality as consumer and role-model)
- governing by provision (municipality as supplier and service provider)
- governing by authority (municipality as planner and regulator)
- governing through enabling (municipality as facilitator)

Urban policy sectors for local climate change actions
- Energy
- Transport
- Building
- Waste

Municipal capacity for climate change policy
- Leadership
- Municipal government competencies and responsibilities
- Resources
- Urban political economies

Multilevel governance and urban climate protection
The cross-cutting nature of climate change governance
- Type I: Multilevel governance and urban climate protection
  - Horizontal co-ordination, Vertical co-ordination
- Type II: forms of multilevel governance are dominated by networks between public and private actors across levels of social organization
Urban governance and climate change in Iran

In case of Iran,

- Energy consumption and climate change consideration in urban areas is more significant due to:
  - its rapid population growth
  - young population
  - massive uncontrolled urbanization

- Nevertheless, climate change in Iran is not on top of the agenda and has low priority.

- Iranian cities are vulnerable to climate change and have potentially significant contribution to global GHG in the medium to long term, but up to now their responses represents mostly neglected area for research.
One of best example in this regard is: city of Tehran and its surrounding new towns which forming the Urban Growth Center, has a considerable impact on climate change and energy consumptions.

- However, in recent years, government has started to realize the importance of energy efficiency, the use of renewable energies, and is trying to apply them in developing different energy policies and strategies.
Urban governance and climate change in Iran

At the national level,
- Government has implemented the main national policy on energy-efficiency within its Five-Year Development-Plans (FYDP).
- Several sectorial policies have also been ratified and several energy-related organizations have been established in governmental institutions.
- On the local level, existing sectorial and national policies for energy efficiency and climate change mitigation have not been very successful yet due to:
  - Institutional problems such as parallel institutional structures and lack of effective coordination.
  - Local actors due to highly centralized and sectorial political structures have comparably low influence for these matters.
Current situation of urban governance system in Iran

- Inappropriate macro administrative-executive system

- Long record of absolute governments and severe political and administrative centralization

- Dominance of dative and formal elements and less space for informal and selective elements which do not permit participation of management systems to informal and public participation.

- Management and planning system is based on division of functions, have bureaucratic, top to bottom and inflexible structure with absence of proper organizational or legal mechanism to guarantee coordination.

- Multiplicity of organization do not form a totality. Functions are divided, overlapped and even isolated
### Structure of local government

**Political administrative division of Iran**

- Central government
- Province (ostān)
- County (shahrestān)
- District (bakhsh)
- Rural agglomeration (Dēhestān)
- Village (roosta)
- City (shahr) Municipalities

#### Territorial Units and Authorities

<table>
<thead>
<tr>
<th>Political division</th>
<th>Division units</th>
<th>Governor authority</th>
<th>Appointing authority</th>
<th>Type of institution</th>
<th>Type of relation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provincial</td>
<td>Province</td>
<td>Governor General(Ostandar)</td>
<td>Minister of interior</td>
<td>Governmental</td>
<td>Vertical</td>
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<tr>
<td>County</td>
<td>County</td>
<td>Governor(Farmandar)</td>
<td>Minister of interior</td>
<td>Governmental</td>
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<td></td>
<td>District</td>
<td>Chief of district(Bakhshdar)</td>
<td>Governor general</td>
<td>Governmental</td>
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<tr>
<td>Managerial</td>
<td>City</td>
<td>Mayor</td>
<td>City council</td>
<td>Public</td>
<td>Horizontal</td>
</tr>
<tr>
<td></td>
<td>Village</td>
<td>Head of rural district</td>
<td>Village council</td>
<td>Public</td>
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A local climate action plan in the new town of Hashtgerd

Current situation in Hashtgerd new town

- No special urban management system is defined and its position is not clear
- Absence of policies and regulations regarding energy and climate protection
- Lack of budget
- Conflict and dual management because of interference of authority and responsibilities of NTDC and municipality.
- No Energy auditing on any of the existing buildings, lack of data
- Absence of a well-defined energy management-climate mitigation sector within the municipality.
- Corruption, carelessness, lack of cooperation and proper supervision hinders proper implementation of Code 19.
- Community participation is negligible
Formation and evolution of the intra-section institution

**Aim:**
Establishment of a coordinating institution for urban development planning and management system in Hashtgerd new town.

**Characteristic:**
- Based on an interaction and homogeneous relationship.
- Acting as a homogeneous point and unity for urban decision making in intra-section levels and particularly, between central and local governments.
- Facilitating the fulfillment of development plans.
- Away from any sectorial and organizational approach, could result in closeness of the government, municipality, city council, citizen, urban planning system and executive system.
- Helps the local government in providing the action plan to combats climate change.
- Conducting more sustainable development of the city.
Specific actions for establishing intra-section institution

- Preparing legislation fields as primary action
- Establishing appropriate administrative fields according to institution’s policies and objectives
- Designing the process and completeness of the institution

Stages of formation for coordinating intra-institution
The overall objective of the action plan is: to enable local government to increase energy efficiency and reduce GHG emissions in their own operations and communities.

Development of action plan through a multi-sector network

After stabilizing phase of intra-section institution

Through urban governance approach

Action plan will be formed

A multi-sector network in an open dialogue has to be build inside the intra-institution

Participants
- Public-governmental
- Non governmental
- Private
- NGOs
- citizen

According to output of workshops different alliances in relevance to their urban policy sector will be set up

- Making a common goal next to their own mission.
- Making the climate change and energy optimization as a topic of broad interest
- Themes around climate change topics will agree upon and workshops will be held
Thank you for your attention