

## NEW CONTRIBUTIONS OF THE THESIS

Subject of thesis: *Urban supply management in Binh Thuan province under climate change conditions.*

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### **New contributions of the thesis:**

*Firstly*, specifying 05 groups of factors affecting urban supply management in Binh Thuan province under climate change conditions, including group of objective factors and group of subjective factors.

#### *a) Group of objective factors:*

- Impacts of natural conditions;
- Impacts of urbanization and urban population increase;
- Impacts of climate change on urban water supply management;

#### *b) Group of subjective factors:*

- Limitations of policy and legal organism;
- Limitations and disadvantages of organization of state management machine.

*Secondly*, giving out 08 opinions and 05 targets of safe water supply management in urban areas in Binh Thuan province under climate change condition.

#### *a) 08 opinions:*

1. Urban water supply management can serve the target of safe water supply and meet the necessity of using clean water in urban areas in Binh Thuan province;
2. Renovating water supply management on the basis of renovating management in the orientation of compacting, not overlapping among functions and duties;
3. Urban water supply management is responsibility of relevant units;

4. It is needed to build water price under principle of correction, sufficiency of investing expenditure, input materials and payment capability of people.

2. Urban water supply management in Binh Thuan province is a progress supervised by state offices who has functions to activities relating to producing, supplying and consuming clean water.

3. State governing offices in Binh Thuan province manage urban water supply performance, establish the environment, direct, control, organize, enhance the development of water supply in respect to law, strategy, planning, policy and facilities in which law plays an extreme important role.

4. Binh Thuan province must create a convenient organism and policy and make reasonable changes in water trading in order to mobilize, attract and exploit maximumly all resources as well as economic elements especially private ones investing and developing, managing operation and protecting water supply system.

5. Urban water supply management must be combined with the development and protection of water sources, especially surface water source in river, stream, reservoir and underground water source in places which are dry or in short of water.

6. Renovate water supply management on the basis of renovating management in the orientation of compacting, not overlapping among functions and duties;

7. Urban water supply management là trách nhiệm của các bên liên quan gồm cơ quan quản lý nhà nước, chính quyền đô thị, doanh nghiệp cấp nước và có sự tham gia của cộng đồng. Cần có sự đồng thuận, thống nhất cao về nhiều mặt trong quan điểm chỉ đạo, quản lý và phối hợp thực hiện nhằm nâng cao hiệu lực, hiệu quả trong quản lý nhà nước tại các đô thị trong điều kiện biến đổi khí hậu.

8. Price of clean water in urban areas in Binh Thuan province must be built based on principle of correction, sufficiency, including cost of investing, input materials and other charges (of water resource, treating waste in water plants...) to guarantee for profits of enterprises for reinvestment and depreciation of properties in order to reduce the support of the State and try to totally eliminate the subsidiary organism and apply market organism in water supply industry.

*b) 05 targets:*

1. Guarantee for the safety of water source (both in quantity and quality) provided to urban areas in Binh Thuan province under climate change condition.

2. Apply model of clean water supply management in urban areas in Binh Thuan province under climate change condition in the direction of planning urban water supply in provincial regions until 2025.

3. Mobilize investing capital from many economic elementss to guarantee rate of 100% of covering water supply service in urban areas in Binh Thuan province under climate change until 2025.

4. Establish coordinating organism of managing clean water supply in urban areas in Binh Thuan province under climate change on the basis of Directing Board of safe water supply of the province and Directing Board of safe water supply of the provincial water supply company.

5. Mobilize the participation of relevant entities and working coordination in order to promote the efficiency of clean water supply management in urban areas in Binh Thuan province under climate change condition.

*Thirdly*, suggesting solutions to water balancing in urban areas in Binh Thuan province until 2025 and water distribution to each topographical region with consideration of climate change.

*Forthly*, suggesting model of urban water supply management in Binh Thuan under climate change conditions in the direction of integrating 04 current water supply management models.

*Fifthly*, suggesting the participation of relevant entities in managing urban water supply in Binh Thuan province (State, enterprises, private units, community).

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