

## **THE INFORMATION ON NEW CONTRIBUTIONS OF THE DOCTORAL THESIS**

Dissertation Title: ***“Management of water supply for urban areas and industrial zones in Phu Yen province to respond to climate change”***

PhD student: **Vu Binh Son**                      Course: 2017

Field of study: **Urban and construction management**

Code: **62.58.01.06**

Supervisors:

- 1. Assoc. Prof., Dr Nguyen Thi Ngoc Dung**
- 2. Assoc. Prof., Dr Tran Thanh Son**

Training institution: **Ha Noi Architectural university.**

### **Research results and the new contributions of the Thesis**

- The thesis has analyzed and assessed the current status of water supply; current status of water supply management models; factors affecting the management of water supply as a basis for proposing models and solutions to manage water supply for urban areas and industrial zones in Phu Yen province to respond to climate change
- The thesis has systematized the theoretical basis, clarified a number of theoretical issues and principles, contents, and the role of state management in the management of water supply for urban areas and industrial zones in Phu Yen province
- Giving 06 viewpoints and 04 objectives to manage water supply for urban areas and industrial zones in Phu Yen province to respond to climate change: *06 points of view* (1) Integrated management of water resources, on the basis of compliance with the Law on Water Resources and related sub-law documents related to water resource management regulations; (2) In line with the development orientation of urban water supply and national industrial zones up to 2025 and a vision to 2050; (3) In line with urban and industrial zone water supply planning, Phu Yen province's water source planning to 2025 and vision to 2050; (4) There is close and effective coordination between the state management agencies of the province (Department of Construction, Department of Natural Resources and Environment, Department of Agriculture and Rural Development...) and units

and organizations exploiting and using the supply. country; (5) It is necessary to strictly comply with regulations related to the control of saline intrusion, drought, flood, and landslide that affect the quantity and quality of water supply; (6) Priority is given to investment in building an automatic water quality monitoring system according to planning. *04 objectives* (1) Ensure safe water supply for urban areas and industrial zones according to KHCNAT; (2) Ensure balance of water supply for water users; (3) Integrated management of water supply to ensure quality and respond to climate change; (4) Models and solutions for synchronous and comprehensive water resource management from central to local levels to respond to climate change.

- Proposing a plan to balance water supply for urban areas and industrial zones in Phu Yen province by 2030 in the direction of safe water supply taking into account climate change.

- Proposing procedures for early warning and quality control of river water supply (Take the water source of Song Ba at the location of the water collection work for Tuy Hoa thermal power plant as a typical example).

- Proposing a model of water supply management for urban areas and industrial zones in Phu Yen province to respond to climate change on the basis of selectively combining management methods that are flexible and suitable to specific local conditions.

- Proposing policies and solutions to mobilize financial resources to manage water supply, create a legal corridor and serve as a basis for attracting development investment capital, ensuring water supply safety objectives.

**Representative of supervisor**

**PhD student**

**Vu Binh Son**