

EVALUATION OF SPECIFIC TO SOME ADAPTATION ACTIVITIES OF CLIMATE CHANGE FOR TURKEY

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EXPERTISE THESIS ABSTRACT

Turkey is located in a region -Mediterranean Basin- where is vulnerable to the impacts of climate change. Unfortunately, efforts exhausted at global level for the control on emissions of greenhouse gases cannot prevent the climate change. It is known that current gases in the atmosphere would continue to warm the Earth, even if all emissions of greenhouse gases were suddenly eliminated. Hence, adaptation to climate change has become a necessity to provide against changing climate effects and reduce the adverse effects of climate change. Climate change is an unavoidable fact, therefore, climate change adaptation actions and should be developed and integrated into all sectors. Due to the fact that water resources are affected by lots of adverse effects of climate change in a large and significant scale, many sectors depending on those resources will also be effected directly or indirectly. So in water management, climate change adaptation plans and implementations are of the utmost importance and priority. In this study, effects of climate change have been researched at global and national scale. Adaptation implementations of which are efficient irrigation techniques, reuse of treated wastewater, reuse of grey water and rain water management have been detailed and examples of projects have been mentioned. Being modified the usage of grey water and rain water harvest implementation to our country, evaluation has been carried out interms climate change vulnerability levels on high regions.

Key Words: Climate change, climate change adaptation, water resources, rain water, rain water harvesting