

The Feasibility of Applying Effluent Taxation in Abu Dhabi Residential Sector

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Abstract— The average water consumption per capita in Abu Dhabi is almost three times the world average. As a result, the demand for desalinated water has got much higher due this exaggerated consumption rates and other factors such as very hot climate conditions, population growth and the limited natural resources across the country. A new approach for limiting high consumption rates is essential. Effluent tax is the process of taxing the waste water discharged from dwelling units and connected to municipality sewer network. It showed a success in different countries around the world such as Germany and Canada.

This study measures the feasibility of applying this tax in the residential sector of Abu Dhabi emirate. It is assumed that the tax is applicable to high consumptions only, a survey was designed to measure the percentage of people who will try to lower their water consumption to avoid the tax, and the percentage of people who will continue their current consumption and pay the tax. Then a calculation model was built to study the economic feasibility as well as the carbon savings from three water reduction scenarios (5%, 10%, 15%) of the residents current consumption and 2-baseline scenarios (Abu Dhabi current consumption and world average consumption). The study is projected up to year 2030 which matches the Abu Dhabi vision 2030. The results came to support the expectation of the success of effluent taxation policy at Abu Dhabi Emirate if applied correctly. It also clearly showed how sensitive water saving can be to the environment due to the high carbon footprint of water desalination plants

Keywords— *Effluent tax; carbon savings; desalination*

I. INTRODUCTION

UAE is characterized by high level of domestic water use. The average resident of Abu Dhabi consumes about 629 L/day of water, almost 3 times the world average consumption (170-300) L/day [1]. This created a growing gap in supply and demand in the water sector and sea water desalination was the key to answer this water shortage. The emirate residential sector is fully supplied with desalinated water [2] produced by large capacity desalination plants. Abu Dhabi Water and Electricity Authority (ADWEA) is utilizing 9 desalination plants within Abu Dhabi and Fujairah emirates. The total desalinated water generated by ADEWA in 2014 was 280,843 Million Imperial gallon (MIG) with a carbon emissions of almost 15 million tons of Co₂ equivalent. ADEWA estimates the carbon footprint of each one million MIG of desalinated

water to be 53,680.75 kg Co₂ equivalent depending on the technology used in water production. As a result, water saving is of great importance to control the carbon emissions from desalination plants.

Effluent tax is taxing the waste water discharged into the municipality sewer network from residential accommodations. The policy showed a great success in reducing the water consumption of the residential sector in Canada and other different locations. It also enhanced the quality of effluent discharge from homes and consequently the treated water by the Waste water treatment plants. Producing higher quality treated water means that the use of this water will not be limited only to irrigation and outdoor use, it may also be used in other sectors which is in need to high quality water such as industry and heating/cooling.

The predicted results for the tax is to force the majority of people to lower their water consumption. If water consumption got lower, lower demand for desalinated water is expected, this will lower the production and transportation costs as well as the environmental impacts of GHG's emitted during water production.

The feasibility assessment for applying this tax on residential sector (financial and environmental impact of the proposed tax) was built using excel software mathematical model based on the statistical data of water consumption and waste water discharge into sewage. The model is intended to measure the financial gains and the reduction of carbon emissions from taxing the residential sector based on five scenarios, business as usual scenario (no water reduction), 5% reduction in water use, 10% reduction in water use, 15% reduction in water use and 70 % Reduction (world average scenario) which represents a second base line scenario to show how much Abu Dhabi water consumption is deviated from water average water consumption.

II. BACKGROUND

The demand for desalinated water has got much higher due to very hot climate conditions, population growth and the limited natural resources across the country. Another social factor that is not less in impact than any other economic or climate factor, is the long history of very cheap water prices in 1980's and 1990's. This allowed people to develop certain exaggerated water consumption habits.

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in the region tightened its belt in response to falling hydrocarbons revenues. However, a sustained focus on economic diversification and targeted investment in Abu Dhabi's key non-oil sectors in recent years means the emirate is well positioned to weather the storm. Looking forward, plans for future development are mapped out in Abu Dhabi Economic Vision 2030, a comprehensive economic policy document that aims to reduce dependence on oil and gas, thereby creating a more sustainable knowledge-based economy for the emirate and its inhabitants. Aided by hydrocarbons reserves that are among the world's largest and substantial financial resources, Abu Dhabi has built up a strong foundation to become a regional leader and an increasingly important global player in a wide variety of sectors including oil and gas, financial services, health care, aviation, and renewable energy.

The Report: Abu Dhabi 2014 Oxford Business Group, 2014-03-25. Although the emirate's economic growth can be primarily attributed to its vast hydrocarbons resources, it has also made progress diversifying into new sectors such as manufacturing, tourism, aerospace, defence, finance, and logistics. In addition to its economic investments, Abu Dhabi has also made major contributions to social welfare as well as infrastructure, which has been identified as the bedrock for future growth. The government has played a key role in the expansion of the security, aerospace, and defence industry over the past decade in an effort to strengthen the UAE's defence capabilities and as a means of boosting economic diversification. Despite challenges such as a high level of regional competition, most local defence and aviation firms expect to see continued expansion for years to come. The evidence suggests that the emirate has succeeded in nurturing new economic sectors and is on track to meet its goals. The oil and gas sector accounted for 56.5% of Abu Dhabi's GDP at current prices in 2012, followed by construction 9.6%, manufacturing 5.9%, and real estate 4.4%.

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