

APPENDIX A: KEY LITERATURE REVIEW SEARCH TERMS

Arab Fund for Economic and Social Development (AFESD)
United Arab Emirates (UAE)
Reverse Osmosis (RO)
Al Ain Distribution Company, (AADC)
Crown Prince Muhammad bin Salman (MBS)
Emirates Global Aluminum, (EGA)
Dubai Municipality, (DM)
Dubai Nuclear Energy Committee, (DNEC)
French Development Agency (AFD)
Foreign Direct Investment (FDI)
Global Water Intelligence (GWI)
Gulf Cooperation Council (GCC)
Joint Comprehensive Plan of Action (JCPOA)
Renter State Theory (RST)
Roads and Transport Authority, (RTA)
Sea Water Reverse Osmosis (SWRO)
The Middle East Desalination Research Center (MEDRC)
The OPEL Fund for International Development (OFID)
International Development Association- (IDA)
International Groundwater Resources Assessment Centre, (IGRAC)
Kuwait National Petroleum Company (KNPC)
Kuwait Oil Tanker Company
Kuwait Petroleum International
Petrochemical Industries Company (PIC)
Programme, (UNDP)
United Arab Emirates, (UAE)
The Gulf Cooperation Council (GCC)
The Research Council (TRC)

The World Bank- (WBG)

Partnerships

Aby Dhabi Aviation

Abu Dhabi Investment Authority

Abu Aviation Company

Agriculture Bank of China

Arab Times

Asian Development

Bank

Barclay's

Barrons

Biography

Botswana Pula Fund

Channel

Chile Pension

China Canada

China Investment Corporation

Croatia

Delft

Disney

Emirates

Fly Dubai

King Fahd University of Petroleum and Minerals

Kuwait Investment Authority

Lifetime

LMN

Dhahran Techno Valley Company

Earth Observation Data Acquisition and Analysis Service (NEODAAS).

Environmental Process Engineering Team

Future Generations Fund

FYI

Geological Research Authority of Sudan (GRAS)

Green and Safe Health Facility Development

Hearst Corporation

Isreal

Jongno-gu

Jodon

King Abdullah University of Science and Technology

Kuwait Investment Board

Kuwait Investment Authority, Kuwait

Kuwait Petroleum Company

Libyan Investment Authority

Mubadala Investment

Republic of Korea

Sama Foreign Holdings, Saudi Arabia

State General Reserve Fund, Oman

The Netherlands

The World Economic Forums

GS Engineering & Construction

International Business Council

National Human Rights Committee

Kingdom Natural Environment

King Abdullah University of Science Technology

Ministry of Foreign Affairs

Research Council

Massachusetts Institute of Technology

Advisory Board JP Morgan International Council

Department of Biotechnology

Energies de Portugal

Faculty of Applied Sciences

Japanese Oil Refiner Cosmo Oil

Member Society of Petroleum Engineers SPE

Medium Resolution Imaging

National Bank of Abu Dhabi

Norway Government Pension

Spectrometer (MERIS)

Moderate Resolution Imaging Spectroradiometer (MODIS)

SeaViewing Wide Field-of-View Sensor (SeaWiFS)

SUE'S Lifetime Achievement Award

Saudi Arabia Delft University

Of Technology

Saudi Aramco Austin Petrochemicals

Sovereign Wealth Fund Institute

King Fahd University of Petroleum and Minerals in Dhahran

Planning and Statistics Authority

The Foreign Holdings of the Saudi Arabian Monetary Agency

The General Reserve

UN Department of Economic and Social Affairs

United Nations Department of Economic and Social Affairs

United Nations Development

Australian Research Council

German Science Foundation

Clusters of Excellence –CLiSAP, Ciccs, Exc2037

Olympics

The History

Thuwal

Qatar Investment Authority, Qatar

The Kuwait Investment Authority

Vice TV

Vietnam Ministry

Volkswagen

Visible Infrared Imaging Radiometer Suite (VIIRS)

Water Desalination

And Reuse Center

Contributors

Denmark, Netherlands, Norway, France, Israel, Finland, Croatia, Portugal, United Kingdom, Australia, Sweden,

Emirates and the United States.

West Bank

APPENDIX B: STUDY INSTRUMENTS

Dear Ms. Roessler Weinert,

Thank you for writing to me about U.S. foreign policy. I appreciate the time you took to write, and I welcome the opportunity to respond.

The challenges facing our world today demonstrate how interconnected we are and how the fates of all people are bound up together. The outbreak of a virus overseas can cause profound grief and suffering at home. Conflict a continent away can create unrest that endangers our own security. Economic downturns abroad can mean lost jobs and shuttered businesses in towns across America. Global climate change is already worsening hurricanes in the Gulf, floods in the heartland, and wildfires in the West. No country can solve these problems alone, and America cannot afford to be absent from the world stage. Investing in strengthening our leadership abroad is also an investment in bolstering our security and prosperity at home.

As President, I am determined to repair our alliances, renew our leadership in international institutions, reclaim our credibility, and equip the American middle class to succeed in a global economy. I strongly believe that our Nation is better positioned than any other to lead in the 21st century and to be the greatest force for good in the world. Under my Administration, American political and economic leadership will be rooted in our most cherished values: defending freedom, championing opportunity, upholding universal rights, respecting the rule of law, and treating every person with dignity.

We have returned diplomacy to the centre of our foreign policy and are committed to meeting today's global challenges from a position of strength, working in close cooperation with our allies and partners. I also want to be clear that I will never hesitate to defend the American people or our vital interests, including through the use of force when necessary. We will always stand with our friends around the world to protect our values and to advance peace, security, and prosperity for all.

I appreciate you sharing your views with me, and I will keep your perspective on these important issues in mind as we work to meet the challenges of our time. May God bless America, and may God protect our troops, our diplomats, our development experts, and all those serving in harm's way.

Sincerely,

Joe Biden

APPENDIX: C

Statement- Published By EWEC and approved by the Abu Dhabi Department Of Energy (DOE). Ottoman AL Ali, Chief Executive Officer of EWEC, said:" At the core of EWEC's business is sustainable, efficient water and electricity production as we continue to ensure supply security, and the Statement of Future Capacity Requirements Summary Report is a key reference for the likely future of water and electricity requirements. Combined with addition of nuclear power to the grid, we can significantly reduce carbon emissions and make the UAE a beacon for sustainable, utility scale water and energy production." Increased investment in RO projects means we can lead the region in decoupling water and electricity generation, using significantly less energy-intensive technology to produce water, reduce carbon emissions, and reduce costs."

APPENDIX: D

Marubeni Corporation has Entered into a Power Purchase Agreement for Fujairah F3 Independent Power Project in the United Arab Emirates. Marubeni Corporation (hereinafter, " Marubeni") is pleased to announce that Marubeni has signed a Power Purchase Agreement (hereinafter,"PPA) with Emirates Water and Electricity Company (hereinafter, " EWEC"), a leading company in the coordination , planning and supply of water and electricity across the United Arab Emirates (hereinafter, " UAE), for the Fujairah F3 Independent Power Project, to be located in Qidfa, in the Emirate of Fujairah, in the UAE. The PPA is contracted for a 25- year period. Mr.Othman AL Ali, Chief Executive Officer of EWEC, said:" The Fujairah F3 IPP project will apply one of the most efficient and advanced CCGT

technologies available in the region, producing more energy that aligns with the UAE Energy Strategy 2050's CO2 emissions reduction targets. Marubeni have IPP projects assets with more than 12 5GW net generation capacity across 19 countries (Marubeni, 2020.p.1). Marubeni will continue to deploy its expertise and experience in the power generation business, and at the same time contribute to the establishment of a sustainable society by providing reliable sources of power that are also environmentally friendly (Marubeni,2020. Twelve companies have been formed under ADWEA (Abu Dhabi Electricity and Water Authority). ADWEA formulates policy for managing supply and demand of power and water in the Emirate, appointing the management of ADWEC and Transco, and managing the tendering of contracts to the private sector to supply power and water.

APPENDIX: E

With the intention to provide secure, safe and reliable supplies of water and electricity and to encourage private sector investment, in early 1998, ADWEA (now TAQA) embarked on the privatization of the water and power industry. The privatization program will encourage private sector investment, create new employment opportunities, accelerate economic and social development. This S3 Power Plant is operated by Shuweihit Asia O&M Company which is 55%: 45% joint venture by Korea Electric Power Corporation of Korea and Sumitomo Corporation of Japan respectfully.

APPENDIX: F

Branching Structure

P- Lack of drinking water

Equipment Issues – archaic and leaks

Engineering partner

Wealthy investors

R- Safe drinking water

DEDICATION

Diane Roessler Weinert, received her Master's (2016), from the Jack Welch Management Institute in Business Administration with a concentration in Marketing. Then spent two years studying methodology with the International University of Monaco. Returned to the United States studying case studies with the Royal Society (Professor

Anderson, mentor). Then registered with Capitol Technology (Artificial Intelligence). Engineering and Finance are Diane's passion. She began her career at the age of nine and was accepted into Who's Who at the age of seventeen and recognized for her industrial background. Diane Roessler Weinert, is founder to Global Networking & Siren De following a career of a federal contractor for Homeland Security. I like to thank the San Francisco Airport for ensuring a safe, clean, quiet place to work from and for the experience working with the pinnacle technology. Thank you, London for busting 9/11 criminals. "This declaration is just one of the positive outcomes of the Abraham Accords that is serving to reinforce regional peace, stability and prosperity, while improving the lives and the future prospects of all the people of the region," Zayed said in a statement.

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Diane Roessler Weinert began her career in aviation in 1986 with Flexible Solar in Combination with an Airplane. I like to thank Dean Ian and Professor Dennis for professional direction. I like to extend special thanks to those that engaged in the surveys in quantitative research. I would like to reiterate my appreciation for Dean Ian and Professor Dennis and the staff at Capitol Technology. Without everyone's support this would not have been a reality. Capitol Technology has ensured continued higher-education with Artificial and Synthetic Intelligence. A special thanks to the State of California and the President's circle for allowing opportunities that might not otherwise have developed.