

COVER SHEET FOR AMENDMENT OF POST-TRAVEL SUBMISSION

Date Time Stamp

Instructions: Use this form as a cover sheet for any paperwork you may need to submit to the **Office of Public Records** in order to make your Privately Sponsored Post-Travel Submission complete in accordance with Rule 35. **Only complete this form if you need to submit an amendment to a post-travel filing you have already submitted.**

SUBMIT DIRECTLY TO THE **OFFICE OF PUBLIC RECORDS IN 232 HART BUILDING**

Name of Traveler: Patrick Bond

Employing Office/Committee: Sen. Angus King

Travel Expenses Paid by (List all sources): Atlantic Council

Travel Date(s): October 1-8, 2022

Description/Title of Attached Forms: _____

Original Invitation

Final Actual Itinerary

Purpose of Amendment (describe the reason for amending original submission): _____

Providing additional documentation

12/20/2022

(Date)



(Signature of Traveler)



Atlantic Council

GLOBAL ENERGY CENTER

Patrick Bond
Senator Angus King
133 Hart Senate Office Building
Washington, DC 20510

August 26, 2022

Dear Patrick,

It is my pleasure to invite you to join a Congressional staff delegation trip to the United Arab Emirates (UAE) to study advanced energy technologies this October 1-8, 2022. Our aim is to strengthen the US-UAE energy relationship and demonstrate how a cohesive national energy strategy and concerted public-private effort can lead to impressive results.

The delegation will include senior Congressional staff with policy work before the US Senate Committees on Energy & Natural Resources, Agriculture, Appropriations, and Environmental & Public Works, as well as the US House Committees on Energy & Commerce, Ways & Means, Science, Space and Technology, Select Climate and Appropriations. You, along with your colleagues, play an instrumental role in driving American energy policy and international engagement. This will provide you with an opportunity to learn more about the impressive advancement in energy one of our key allies in the Gulf has made and see some innovative technologies and facilities firsthand.

Potential meetings include discussions with Mohamed Al Hammadi, Chief Executive Officer of Emirates Nuclear Energy Corporation; H.E. Suhail Al Mazrouei, Minister of Energy and Industry; H.E. Mariam Almhiri, Minister of Climate Change and Environment; Abu Dhabi National Oil Company executives, and others. Site visits will likely include: the Barakah Nuclear Facility, the first commercial nuclear power station in the Arab World; the Al Reyadah Carbon Capture and Storage (CCS) project, the world's first steel carbon capture project; and the world's largest 'premium aluminum' producer Emirates Global Aluminum (EGA).

For further information or any questions you may have, please contact Katie Kenney at kkenney@atlanticcouncil.org. We sincerely hope you will join this trip in October.

Sincerely,

Reed Blakemore
Acting Director, Global Energy Center
Atlantic Council



Atlantic Council

GLOBAL ENERGY CENTER

United Arab Emirates Energy Study Trip

**October 1-8, 2022 • Abu Dhabi • United Arab
Emirates**

ANNOTATED AGENDA**Saturday, October 1**

9:15 p.m. **Flight departure**
Location: Washington Dulles International Airport
Flight number: EY 130
Airline: Etihad Airways

Sunday, October 2

6:15 p.m. **Arrival in Abu Dhabi, United Arab Emirates**
Location: Abu Dhabi International Airport

7:15 – 7:30 p.m. **Travel from airport to hotel**
Location:
St. Regis Abu Dhabi
Nation Tower, Corniche
P.O. Box 60476
Abu Dhabi
United Arab Emirates
Transportation: Coach Bus

7:30 - 8:30 p.m. **Executive Time**

8:30 – 10:30 p.m. **Welcome Dinner and Briefing: State of the United Arab Emirates**
Location: The Terrace at the St. Regis, Abu Dhabi

Briefer:

Mr. Dave Scott, *Executive Director of Economic Affairs, Executive Affairs*
Authority, Abu Dhabi

Staffers will receive an overview of the United Arab Emirates, serving to help familiarize them with relevant information. This will serve as part of their foundational understanding of the country and provide an opportunity to gain topical knowledge in preparation for the following days.

10:30 p.m. **PCR-Test taking place**

RON: *St. Regis, Abu Dhabi*

Monday, October 3

8:30 – 9:30 a.m. **Breakfast**
Location: The Terrace on the Corniche at the St. Regis

- 9:30 - 10:00 a.m. **Travel to Ministry of Energy & Infrastructure**
Transportation: Coach Bus
- 10:00 – 11:30 a.m. **Briefing from Ministry of Energy & Infrastructure** (requires 48-hour negative PCR-test)
Location: Ministry of Energy and Infrastructure, 9th floor, Al- Falah Street next to the Ministry of Finance in Abu Dhabi

Briefer:

H.E. Suhail Al Mazrouei, *Minister of Energy & Infrastructure*, United Arab Emirates

Minister Al Mazrouei oversees the energy and infrastructure sector of the UAE and is responsible for ensuring that the UAE remains one of the global leaders when it comes to the energy sector. The UAE is also part of the OPEC+ group and has played a pivotal role in the decision making on oil production as part of OPEC+.

- 11:30 - 11:45 a.m. **Travel to St. Regis Abu Dhabi**
Transportation: Coach Bus
- 11:45 a.m. - 1:00 p.m. **Executive time and lunch**
Location: The Terrace on the Corniche at the St. Regis
- 1:00 – 2:00 p.m. **Travel to ENEC HQ, Masdar City**
Transportation: Coach Bus

- 2:00 p.m. – 3:30 p.m. **Meeting with Emirates Nuclear Energy Corporation** (requires 72-hour negative PCR-test)
Location: ENEC, Masdar City

Briefer:

Mohamed Al Hammadi, *Chief Executive Officer*, Emirates Nuclear Energy Corporation

Founded in 2009, the Emirates Nuclear Energy Corporation (ENEC) is responsible for the implementation of the UAE's nuclear energy program. The move to pursue a nuclear program was in part due to the sustainability goals outlined under the Abu Dhabi Economic Vision 2030. ENEC's main priority is to deliver safe, clean, efficient, and reliable nuclear energy to the UAE grid in order to establish a more diversified power mix and provide a lower carbon emissions alternative to burning oil or gas. The short-term goal is to get the Barakah nuclear facility operational, at which point, ENEC will turn to focusing on operations at Barakah, while developing plans to expand nuclear operations to other locations.

- 3:30 – 4:00 p.m. **Travel to St. Regis Abu Dhabi**
Transportation: Coach Bus

4:00 – 7:15 p.m. PCR-Test taking place and Executive time

7:15 – 7:30 p.m. Walk to restaurant

7:30 – 10:30 p.m. Reception and Dinner Briefing with US Embassy Abu Dhabi
Location: Catch, St. Regis on the Corniche

Briefers:

Sean Murphy, *Chargé d'Affaires*, US Embassy Abu Dhabi
Matthew Pagett, *Environment, Science, Technology, and Health Officer*, US Embassy Abu Dhabi
Eric Williams, *Deputy Economic Counselor*, US Embassy Abu Dhabi

Staffers will hear about contemporary issues in the UAE from the perspective of members of the US embassy in Abu Dhabi. This dinner will provide staffers with the opportunity to get a sense of both political and economic concerns in the UAE.

RON: St. Regis, Abu Dhabi

Tuesday, October 4

6:00 – 6:30 a.m. Breakfast
Location: The Terrace on the Corniche at the St. Regis

6:30 – 8:30 a.m. Travel to Dubai
Transportation: Coach Bus

8:30 – 10:00 a.m. Meet with Dubai Electricity and Water Authority (*requires a 72-hour negative PCR-test*)
Location: Dubai Electricity and Water Authority, Sheikh Rashid Road, Umm Hureir 2, Umm Hureir, Dubai (near Wafi Mall)

Briefer:

H.E. Saeed Mohammed Al Tayer, *Managing Director and Chief Executive Officer*, Dubai Electricity and Water Authority

The Dubai Electricity and Water Authority (DEWA) was formed in 1992 from a merger between the Dubai Electric Company and Dubai Water Department. Since then, DEWA has become one of the best ranking utilities companies in the world, supplying over 780,000 customers; DEWA has recently begun to incorporate solar into its power generation mix in an effort to decrease dependence on gas-fired power facilities.

9:30 a.m. – 1:00 p.m. Executive time

1:00 – 2:30 p.m. Lunch and Briefing on Dubai's Economy and Role within the Emirates

Location: Zou Zou Restaurant, Dubai Mall

Briefer:

Bina Hussein, *Nonresident Fellow, Global Energy Center, Atlantic Council*

The UAE consists of seven different Emirates, Dubai being one of them. While the UAE is known as an energy economy, Dubai is comparatively to the other Emirates energy poor, and has struggled throughout its history creating a sustainable economy. Staffers will receive a briefing on Dubai's economy, the role it plays within the UAE, and what Dubai is doing to create a sustainable economy.

2:30 - 3:15 p.m.

Travel time to Expo2020

Transportation: Coach Bus

3:15 – 4:45 p.m.

Exploring Expo2020 & COP28

Location: Expo2020

Briefers:

Reed Blakemore, *Acting Director, Global Energy Center, Atlantic Council*

Kathryn Kenney, *Associate Director, Global Energy Center, Atlantic Council*

The UAE will be hosting COP28 in 2023. Staffers will receive a briefing to gain a better idea of how the UAE is looking forward to hosting COP28, what world leaders can expect and what the UAE hopes to achieve at COP28.

4:45 - 6:15 p.m.

Travel time to St. Regis Abu Dhabi

Transportation: Coach Bus

6:15 – 7:30 p.m.

Executive time

7:30 - 8:00 p.m.

Travel time to Cafe Milano, Four Seasons

Transportation: Coach Bus

8:00 – 10:30 p.m.

Dinner briefing on UAE's Energy Economy

Location: Cafe Milano, Four Seasons Abu Dhabi

Briefers:

Costanza Jacazio, *Manager, Energy Economics, ADNOC*

Tit Andrej Erker, *Senior Economist, Abu Dhabi Investment Authority*

The UAE is an energy economy. So far, everything that has been built and created within the UAE by its government, is funded by the energy sector. The staffers will have an opportunity to hear from the Abu Dhabi Investment Authority (ADIA), the largest sovereign wealth fund of the country, and from ADNOC's energy economics manager to gain a better understanding of the UAE's economy and what the plans are for the future as the UAE is working to diversify its economy.

10:30 - 11:00 p.m.

Travel time to hotel

Transportation: Coach bus

RON: St. Regis, Abu Dhabi

Wednesday, October 5

~~-7:00 - 10:45 a.m. - Travel to Barakah Nuclear Power Plant~~

~~Transportation: Coach Bus~~

~~Advisory: Please ensure to come dressed in appropriate clothing (business casual) for a walk down of the construction site at Barakah and bring your passport as that's the identification document corresponding to the documents used to issue the Security Clearance Pass.~~

Briefing on Nuclear Energy 101 and preview of Barakah visit (1 hour):

Briefer:

~~Mr. Reed Blakemore, Acting Director, Global Energy Center, Atlantic Council~~

~~Staffers will receive a briefing on nuclear energy and the UAE and what to expect from visiting the Barakah Nuclear Power Plant.~~

~~10:45 a.m. - 12:00 p.m. Nuclear Briefing Presentation (refreshments & snacks will be served) (requires 48-hour negative PCR test)~~

~~Location: Barakah Nuclear Power Plant~~

Briefer:

~~Eng. Ali Al Nuaimi, Senior Reactor Operator, Emirates Nuclear Energy Corporation~~

~~Barakah is the first nuclear site under construction in the UAE, designed with four APR1400 nuclear reactors to produce 5.6 GW of energy when all reactors are operational. The Korea Electric Power Corporation won the bid to design and build the facility. Unit 1 started to commercially operate in April 2021 and Unit 2 in March 2022. Unit 3 and 4 are in the final stages. The United States nuclear supply chain contributed significantly to the success of this project.~~

~~-12:00 - 2:15 p.m. Lunch & Site Tour: Barakah Nuclear Power Plant (requires 48-hour negative PCR test)~~

~~Location: Barakah Nuclear Power Plant~~

Briefer:

~~Hasan Al Shemeili, Nuclear Performance Improvement Manager, Nawah Energy Company~~

~~Staffers will receive a tour of the Barakah Nuclear Power Plant during which they'll be shown the different Units and gain an impression of the workings of the Power Plant from the inside.~~

~~2:45 – 6:00 p.m. ——— Travel to St. Regis Abu Dhabi~~
~~Transportation: Coach Bus~~

~~6:00 – 6:30 p.m. ——— Executive Time~~

[We were planning to go to Barakah up until Tuesday, October 4, when UAE Government Security, which manages security for Barakah, cancelled our tour. Due to the last-minute cancellation, we were unable to add additional meetings during the day. We were able to add the programming outlined below.]

8:00 – 9:00 a.m. **Breakfast**
Location: The Terrace on the Corniche at the St. Regis

9:00 a.m. – 12:00 p.m. **Executive Time**

12:00 – 2:00 p.m. **Lunch and Briefing on Nuclear Energy 101 and Barakah:**
Location: St. Regis Abu Dhabi

Briefer:

Mr. Reed Blakemore, Acting Director, Global Energy Center, Atlantic Council

Staffers will receive a briefing on nuclear energy and the UAE and what progress the UAE has made on the Barakah Nuclear Power Plant and what still needs to be done.

1:30 – 6:30 p.m. **Executive Time**

6:30 – 8:30 p.m. **Dinner and briefing on Climate Financing and International Collaboration from a UAE perspective**
Location: The Terrace on the Corniche at the St. Regis

Briefer:

Kathryn Kenney, Associate Director, Global Energy Center, Atlantic Council

Staffers will receive a briefing on what the UAE is doing on climate financing and international collaboration to fight climate change ahead of the evening meeting and briefing the staffers will receive on US Climate Policy & Financing and International Collaboration. This will ensure that staffers will have a well-rounded idea of what's being done both from a UAE and US perspective.

8:30 – 10:30 p.m. **Briefing on US Climate Policy & Financing and International Collaboration**
Location: St. Regis Abu Dhabi

Briefers:

David Livingston, Senior Advisor, Office of the Special Presidential Envoy for Climate, US Department of State

Kevin Adams, Climate Finance Negotiator and Advisor, Office of the Special Presidential Envoy for Climate, US Department of State

Staffers will receive a briefing from advisors to the Special Presidential Envoy for Climate, Secretary John Kerry, on US climate policy and financing and what the Administration is doing on international collaboration in climate change efforts, particularly with the UAE and in the lead up to COP27 and COP28.

RON: St. Regis Abu Dhabi

Thursday, October 6

6:30 – 7:00 a.m. **Breakfast**
Location: The Terrace on the Corniche at the St. Regis

7:00 - 9:00 a.m. **Travel to Noor Abu Dhabi Solar Power Plant**
Transportation: Coach Bus

9:00 – 11:00 p.m. **Site Visit: Noor Abu Dhabi Solar Power Plant**
Location: Noor Solar Power Plant

Briefer:

Mohamed Jasem, Manager, Government Affairs, TAQA

Staffers will receive a tour of and briefing on the world's largest single-site solar power plant. Noor Abu Dhabi covers an area of 8 square kilometers and features 3.2 million solar panels. The plant produces approximately 1.2 gigawatts of power, reducing reliance on the usage of natural gas for electricity generation resulting in a carbon footprint reduction of 1 million metric tons per year. Noor Abu Dhabi began commercial operations in April 2019.

11:00 a.m. - 12:30 p.m. **Travel time to IRENA HQ**
Transportation: Coach Bus

12:30 - 1:45 p.m. **Lunch and Briefing from International Renewable Energy Agency (requires negative PCR-test)**
Location: IRENA Headquarters in Masdar City

Briefer:

Dr. Nawal Al-Hosany, Permanent Representative of the UAE, International Renewable Energy Agency (IRENA)

IRENA, headquartered in the UAE is an intergovernmental organization that supports countries in their transition to a sustainable energy future, and serves as the principal platform for international cooperation, a center of excellence, and a repository of policy, technology, resource and financial knowledge on renewable energy. With over 180 countries engaged, IRENA encourages governments to adopt enabling policies for renewable energy investments, provides practical tools and policy advice to accelerate renewable energy deployment, and facilitates knowledge sharing and technology transfer to provide clean, sustainable energy for the world's growing population.

1:45 – 2:00 p.m.

Travel time to Masdar*Transportation: Coach Bus*

2:00 - 3:00 p.m.

Presentation and tour of Masdar City *(requires 7-day negative PCR-test)**Location: Masdar, Masdar City, Abu Dhabi*Briefer:**Michelle Sabti**, *Corporate Relations, Masdar*

Construction began on Masdar City in 2008 in order to build a completely sustainable city, juxtaposing urban planning with green technologies. It aims to advance the development and adoption of commercially viable solutions in renewable energy and sustainable real estate that address the sustainability challenges of the UAE, the Middle East and international markets. Masdar City implements an array of cutting-edge technologies to meet sustainability goals.

3:00 – 4:00 p.m.

Travel to Mubadala Investment Company*Transportation: Coach Bus*

4:00 – 5:00 p.m.

Briefing from Mubadala Investment Company*Location: Mubadala Investment Company*Briefer:**Khaled Al Qubaisi**, *Chief Executive Officer, Real Estate and Infrastructure Investments, Mubadala Investment Company*

Mr. Al Qubaisi is in addition to running the Real Estate and Infrastructure Investments branch of Mubadala also a member of the Investment Committee at Mubadala, which is mandated to develop the organization's investment policies and guidelines. Staffers will gain an impression on how Mubadala contributes to the acceleration of the UAE's economic transformation, and the development of homegrown businesses, fostering vibrant industrial and commercial clusters, and partnering with global entities, and how Mubadala, one of the largest sovereign wealth funds of the UAE, uses its funds to invest in the local economy as part of the energy transition.

5:00 – 5:30 p.m.

Travel to St. Regis Abu Dhabi*Transportation: Coach Bus*

5:30 - 7:00 p.m.

Executive time

7:00 – 7:30 p.m.

Travel to St. Regis Saadiyat Island*Transportation: Coach Bus*

7:30 - 9:30 p.m.

Dinner on economic diversification in the Gulf*Location: Soufaya Restaurant, St. Regis Saadiyat Island*

Briefer:

Ms. Bina Hussein, Nonresident Fellow, Global Energy Center, Atlantic Council

The energy transition and diversifying the economy away from the oil and gas sector are the two main priorities for the UAE and the Gulf countries in general. How do the Gulf countries go about achieving this? What are some of the obstacles? How likely are they to achieve their goal? And what are some of the opportunities for foreign investment and partnerships?

9:30 – 10:00 p.m. **Travel to St. Regis Abu Dhabi**
Transportation: Coach Bus

RON: St. Regis, Abu Dhabi

Friday, October 7

7:00 – 7:45 a.m. **Travel time to Al Reyadah**
Transportation: Coach Bus

7:45 – 9:30 a.m. **Tour and Briefing: Al Reyadah – Carbon Capture, Usage, and Sequestration Company**
Location: Al Reyadah

Briefer:

Rickin Majithia, Manager, Technology Communications, Group Communications & Corporate Social Responsibility Function, ADNOC Group

This project is currently operating by capturing carbon dioxide from the flue gas of an Emirates Steel production facility and then using this carbon dioxide in enhanced oil recovery (EOR) at a nearby oil field. The main objectives of the project are to reduce the carbon footprint of the United Arab Emirates, implement EOR in subsurface oil reservoirs, and free up natural gas that would have been used for oil field pressure maintenance. The Al Reyadah project captures, transports, and injects just under 900,000 tons of carbon dioxide per year.

9:30 – 10:30 a.m. **Travel time to ADNOC HQ**
Transportation: Coach Bus

10:30 a.m. – 1:00 p.m. **Briefing from Abu Dhabi National Oil Company's Panorama Data Analytics Suite**
Location: ADNOC Headquarters, PO Box 898, Abu Dhabi

Briefer:

Sophie Hildebrand, Chief Technology Officer, ADNOC Group

The Abu Dhabi National Oil Company (ADNOC) is one of the world's largest oil companies, with subsidiaries across the entire hydrocarbon value chain. ADNOC is working to become more integrated to ensure a more sustainable and

economical oil and gas supply. This is being aided by the Panorama Data Analytics Suite. ADNOC's Panorama Digital Command Center draws from a massive set of data points across the company, from the upstream to the downstream and global distribution network, to provide a single access point to ADNOC's real time performance. Using smart analytical models and, increasingly, leveraging advanced AI platforms, it uses big data to generate operational insights and recommend new, integrated pathways to optimize and enhance performance and create additional value.

1:00 – 1:15 p.m. **Travel time to St. Regis Abu Dhabi**

Transportation: Coach Bus

1:15 – 7:30 p.m. **Executive time**

7:30 - 8:00 p.m. **Travel to Emirates Palace**

Transportation: Coach Bus

8:00 – 10:00 p.m. **Dinner debrief and discussion on trip**

Location: Mezlaj Restaurant

Briefers:

Bina Hussein, *Nonresident Fellow, Global Energy Center, Atlantic Council*

Kathryn Kenney, *Associate Director, Global Energy Center, Atlantic Council*

During the final dinner on the trip, staffers will look back on the week and discuss any final thoughts and questions that will be answered by the organizing experts.

10:00 - 10:15 p.m. **Travel to hotel**

Transportation: Coach Bus

RON: **St. Regis, Abu Dhabi**

Saturday, October 8

7:00 - 8:00 a.m. **Breakfast and Check out**

Location: The Terrace on the Corniche at the St. Regis

8:00 - 8:45 a.m. **Travel to the airport**

Transportation: Coach Bus

8:45 - 11:00 a.m. **Executive time**

11:00 a.m. **Flight departure**

Location: Abu Dhabi International Airport

Flight number: EY 131

Airline: Etihad Airways

5:25 p.m.

Flight arrival in Washington, DC