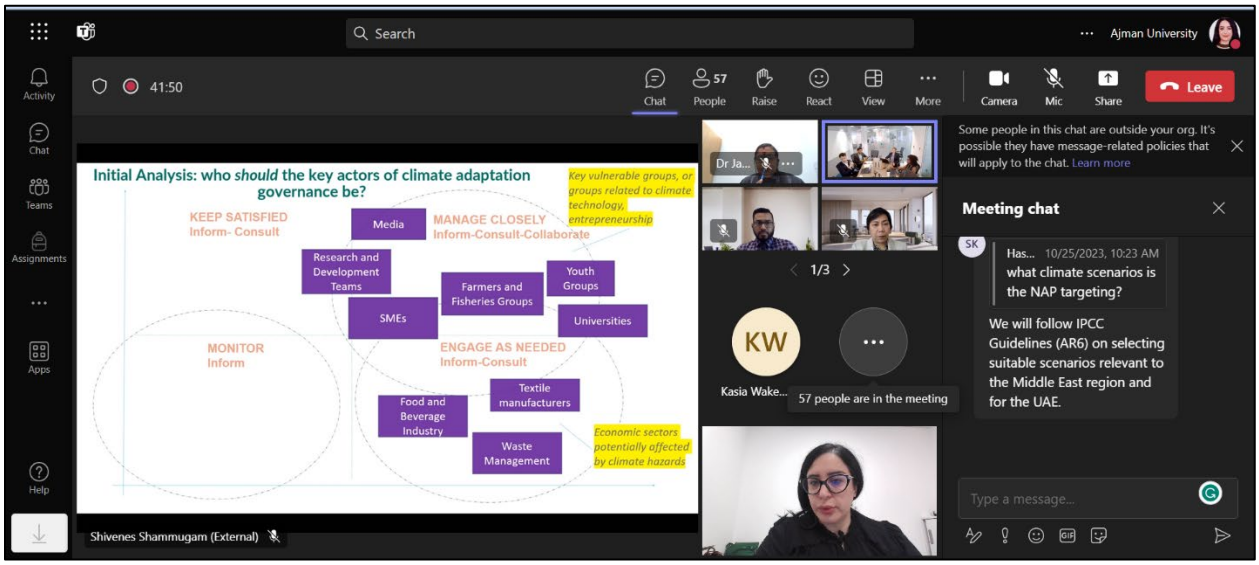
SDG #13: CLIMATE ACTION

13.3. Environmental Education Measures

13.3.3. Co-operative Planning for Climate Change Challenges

Ajman University is committed to participating in national initiatives to address climate change issues to ensure a sustainable future for the next generation. To accomplish this Goal, the university supports the UAE's strategic initiative for Net Zero 2050 following the Paris Agreement. Since 2022, Ajman University's representatives have participated in academic consultations, workshops, meetings, and discussions regarding the climate adaptation framework of the UAE.

The United Arab Emirates has risen to the occasion and became one of the first nations in the MENA region to support the Paris Agreement. As part of this, it has launched initiatives that tackle the problems posed by climate change. The UNFCCC COP28 in November–December 2023 is a significant turning point where the world can observe the advancements made in the Paris Agreement. UAE, which will host the first Global Stock Take and the COP28 this year, has adopted a set of plans known as a National Adaptation Plan (NAP). The UAE's National Action Plan (NAP) is expected to be the next significant step in proving its leadership in the fight against climate change. It will integrate adaptations for climate resilience across the Federal Government and help identify the vulnerabilities associated with climate risks across the seven national Emirates.



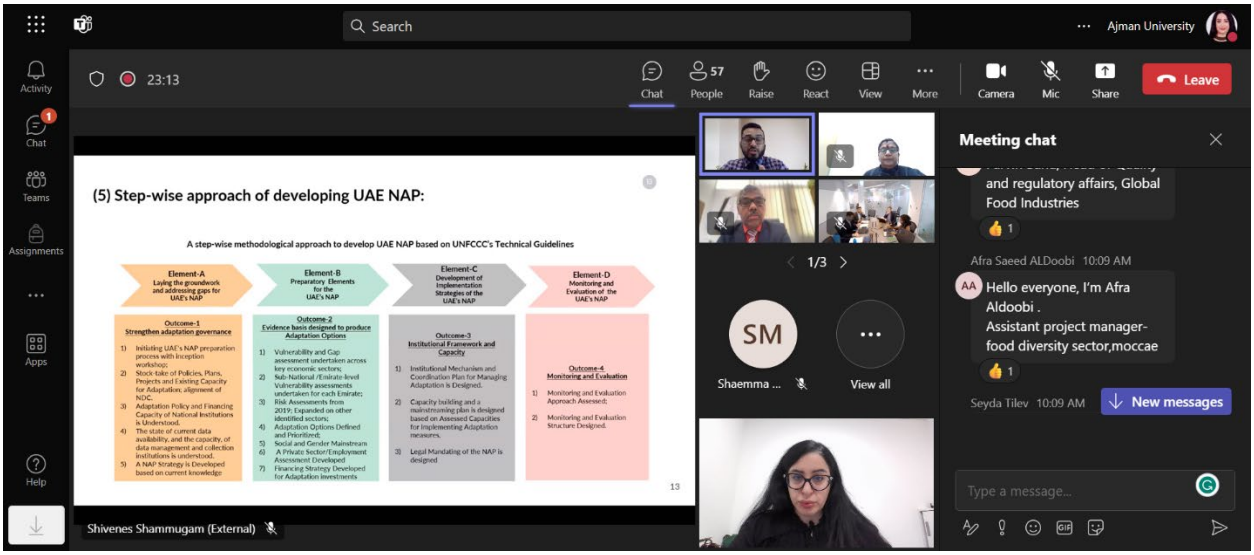
Participating in the UAE National Adaptation Plan Consultation Process

The commitment of AU to the plan can be accessed under the "*Co-operative Planning*" section at https://ehs.ajman.ac.ae/en/pages/au-climate-action-learning-program.

Intending to "build an economy that protects the environment and an environment that supports the economy's growth," the UAE government adopted the "National Climate Change Plan of the United Arab Emirates 2017-2050."

https://www.moccae.gov.ae/assets/30e58e2e/national-climate-change-plan-for-the-united-arab-emirates-2017-2050.aspx

With the objective of "Advancing the UAE's economic diversification agenda through innovative solutions," Ajman University joined the team in December 2022 with representatives from the Office of Sustainability. Since becoming the "Adaptation Champions," AU has participated in events, conferences, and symposiums organized online and in person with several initiatives and support needed to tackle climate change.



Ongoing Projects

Participating in the UAE National Adaptation Plan Consultation Process

Project Collaborators: Ministry of Climate Change and Environment (UAE) and The Global Green Growth Institute (GGGI)

Ajman University is committed to participating in national initiatives to address climate change issues in order to ensure a sustainable future for the next generation. In order to accomplish this goal, the university supports the UAE's strategic initiative for Net Zero 2050 in accordance with the Paris Agreement. Since 2022, Ajman University's representatives have participated in academic consultations, workshops, meetings, and discussions regarding the climate adaptation framework of the UAE.

The United Arab Emirates has risen to the occasion and became one of the first nations in the MENA region to support the Paris Agreement, and as part of this, has launched initiatives that tackle the problems posed by climate change. The UNFCCC COP28 in November–December 2023 is slated to be a significant turning point where the world can observe the advancements made as part of the Paris agreement. UAE, which will host both the first Global Stocktake and the COP28 this year, has adopted a set of plans known as a National Adaptation Plan (NAP). The National Action Plan (NAP) of the UAE is expected to be the next significant step in proving its leadership in the fight against climate change. It will integrate adaptations for climate resilience across the Federal Government and help identify the vulnerabilities associated with climate risks that can be seen across the seven national Emirates.

Project Timeline

Initiation of the AE03 UAE National Climate Adaptation Program

Initial Consultation

Consultation Session 1

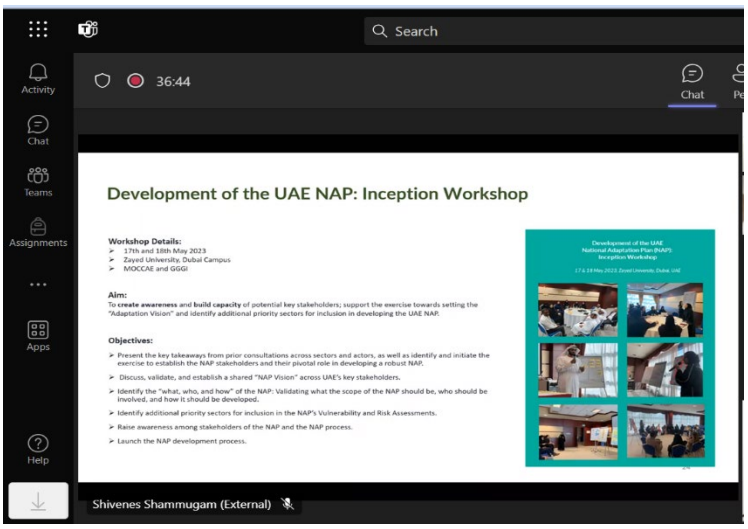
Consultation Session 2.1

Consultation Session 2.2

Consultation Session 2.3

Deliverable of Consultations: draft version of UAE NAP

Consultation Session 3



From: Shaemma Rashed Mebwana
Cc: Muna Ahmad Alamoodi; Ahmed Al Amra; Sparkle Dionne Prentice
Subject: RE: Developing the structure of the UAE's National Adaptation Plan (NAP)
Date: Friday, December 9, 2022 1:42:14 PM
Attachments: image001.png

External Email

Dear Adaptation Champions,

The Ministry of Climate Change and Environment (MOCCAE) and the Global Green Growth Institute (GGGI) are in the process of developing the structure of the UAE's National Adaptation Plan (NAP), that will act as a strategic guide for undertaking climate adaptation.

As part of the process, a bottom-up approach is employed to ensure there is adequate consideration and understanding of the key actors involved in climate adaptation, challenges faced on the ground, and the impacts of climate data availability, governance structure and other factors on climate action.

We are therefore sending a Survey to public, private, academic and civil society actors on the ground that play a role in climate governance, climate science/data, financing of climate interventions, and social/gender/grassroots engagement to collect information and gain valuable insight on climate-related challenges, opportunities, governance, data availability and other climate-related areas.

Please complete the following Survey by **Tuesday 13th December 2022** to provide your insight on the above, which will support MOCCAE and GGGI in charting a strategic path for climate adaptation: https://forms.office.com/r/Ck2GkeucM5

Sincerely,
Shaemma

Shaemma Rashed Mebwana شيماء راشد ميوانا

Climate Change Analyst محلل تغير مناخي
Climate Change التغير المناخي

Tel: +971 4 2148 444 هاتف: www.moccae.gov.ae Dir: +971 4 2148 538 مباشر:

The Project timeline of the UAE National Adaptation Plan, as adopted by Ajman University, can be accessed at

https://ehs.ajman.ac.ae/upload/files/ehs/UAE_NAP_Inception_Workshop_Report_-_May%2C_2023.pdf

The scope and details of the initial consultation session can be found at

https://ehs.ajman.ac.ae/upload/files/ehs/Scope_and_Details_of_the_Informal_Consultation_Academic_Sector_UAE-_NAP.pdf

Greening Education Partnership with UNESCO

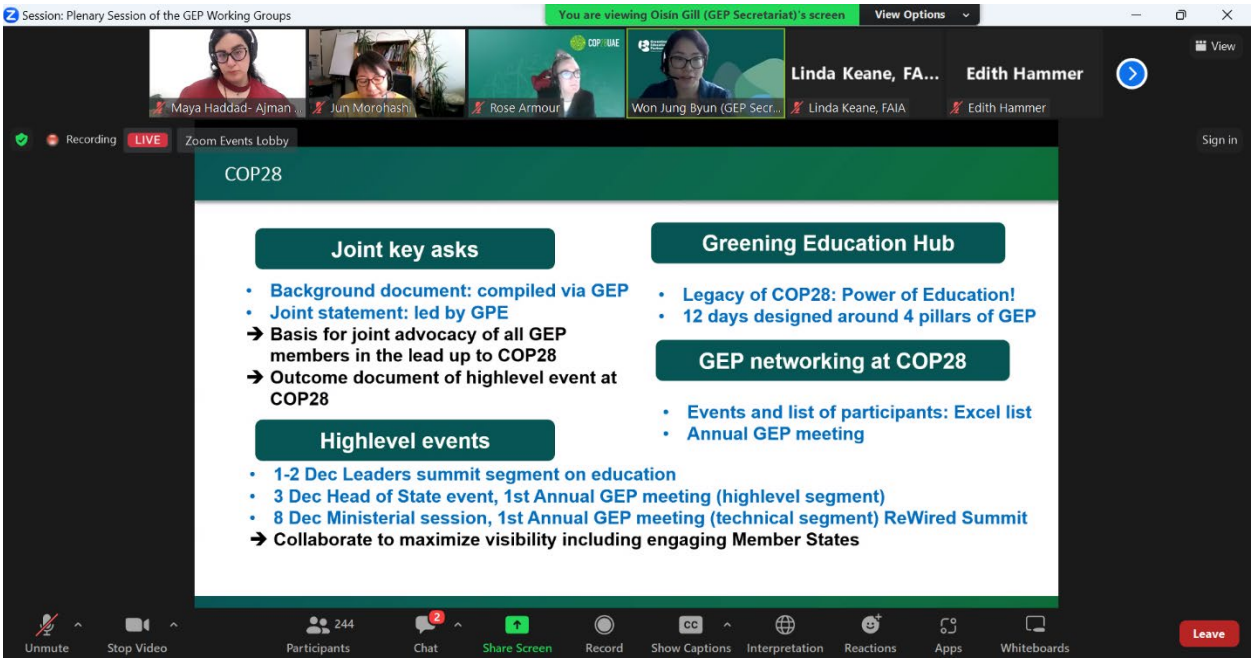
Ajman University is committed to being part of the Greening Education Partnership.

https://cop28.ajman.ac.ae/en/memberships/greening-education-partnership-with-unesco

This new Greening Education Partnership aims to deliver strong, coordinated, and comprehensive action that will prepare every learner to acquire the knowledge, skills, values, and attitudes to tackle climate change and promote sustainable development. Drawing upon ESD's holistic approach to learning, the Greening Education Partnership aims to inspire action from countries to empower learners with the skills required for inclusive and sustainable economic development in the transition toward digital and green economies.

The participation timeline and consultation meeting records can be found under "Co-operative" planning on:

https://ehs.ajman.ac.ae/en/pages/au-climate-action-learning-program



Partnering with Higher Education Sustainability Initiative

Ajman University (AU) is enrolled as a member of the United Nations Higher Education Sustainability Initiative (HESI). This initiative is an open partnership between several United Nations entities and the global higher education community, which was launched in 2012 to highlight the critical role that higher education plays in achieving sustainable development. It also aims to provide an interactive interface between higher education, science, and policymaking by highlighting the role of the higher education sector in supporting sustainable development, convening multi-stakeholder discussions and actions, and sharing best practices.

Higher education institutions play a crucial role in supporting the implementation of the United Nations' 17 Sustainable Development Goals (SDGs) by ensuring that future generations of learners have the skills, mindsets, and attitudes to transform organizations and societies truly.

https://www.ajman.ac.ae/en/news/ajman-university-joins-the-renowned-united-nations-higher-education-sustainability-initiative

Ajman University shall utilize this important membership to play an active role in the various global action groups that support SDG integration into curricula, research, programs, and campus practices, facilitate knowledge exchange, and strengthen partnerships for the goals.

https://cop28.ajman.ac.ae/en/memberships/un-higher-education-sustainability-initiative-hesi

Healthy and Sustainable Built Environment Research Centre

Ajman University's Healthy and Sustainable Built Environment Research Center (HSBERC) aims to do impactful research at the intersection of building, environment, and health to promote healthy living across communities and societies.

The research at HSBERC is focused on the following areas associated with building plan, design and construction:

- Indoor air quality and disinfection of indoor air
- Effect of Building Materials selection and construction on healthy living
- Light and health
- Architectural and Interior design and planning for healthy living
- Occupant behavior

The objectives of the research center are:

- ✓ To provide high-quality research and studies on how buildings' sustainable design, construction, and operations contribute to the health and well-being of occupants.
- ✓ To provide consultancy services to the public and private sectors
- ✓ To organize and participate in continuing education and training seminars and conferences for the community.
- ✓ To collaborate with international partners on areas relevant to the center's mission.

https://www.ajman.ac.ae/en/research/research-at-au/research-centers/healthy-and-sustainable-built-environment-research-center-hsberc

https://www.youtube.com/watch?time_continue=3&v=BBJTIomRqmY&embeds_referring_euri=https%3A%2F%2Fwww.ajman.ac.ae%2F&source_ve_path=Mjg2NjY&feature=emb_logo

Some of the remarkable projects in 2022 by HSBERC in the field of sustainable Healthy Buildings, impacting the climate and environment:

Head of Healthy Buildings Research Center				
Research Center publications				
Title	**Journal**	**Publisher**	**Quartile**	**Authors**
Evaluating the Color Scheme for Elderly Depression in United Arab Emirates	Buildings	MDPI	Q1 (94%)	1. C, Jung, 2. N. Mahmoud, 3. G. El Samanoudy
Investigating the Emission of Hazardous Chemical Substances from the Mashrabiya in Hot Desert Climate	Sustainability	MDPI	Q1 (84%)	1. C. Jung, 2. N. Al Qassimi
The Improvement of Users' Satisfaction for Neighborhood Parks in Dubai, United Arab Emirates	Sustainability	MDPI	Q1 (84%)	1. C. Jung, 2. N.Al Qassimi, 3. M.Arar, 4. J.Awad
Simulation of Natural Lighting Scenes for a Healthy Residential Environment in Dubai, United Arab Emirates	Ain Shams Engineering Journal	Elsevier	Q1 (92%)	1. N. Mahmoud, 3. G. El Samanoudy, 3. C. Jung 2022
Extracting the Important Factors of Emission Patterns to predict CH2O Emission Model in Hot Desert Climate	Air, Soil and Water Research	Sage	Q2 (57%)	1. C.Jung, 2. N. Mahmood
An evaluation of a sustainable contrast-based metric for roadway lighting design.	Proceeding of the 19th International Conference on Sustainable Energy Technologies – SET 2022, Istanbul, Turkey, 16th – 18th of August.		Conference	AbouElhamd, A. R., Saraiji, R., Hassan, A., AlFaki, I.A. (2022).
A new metric for roadway lighting design based on Relative Visual Performance.	Proceeding of the 2021 IES virtual annual conference, 9-13 August.		Conference	AbouElhamd, A. R., Saraiji, R. (2021)
Human metabolic emissions of carbon dioxide and methane and their implications for carbon emissions.	*Science of the Total Environment*, 833, 155241.	Q1		Li, M., Bekö, G., Zannoni, N., Pugliese, G., Carrito, M., Cera, N., Moura, C., Wargocki, P., Vasconcelos, P., Nobre, P., Wang, N., Ernle, L., Williams, J. 2022.
Ventilation strategies and indoor air quality in Swedish primary school classrooms	*Building and Environment*, submitted	Q1		Cabovska, B., Bekö, G., Teli, D., Wargocki, P., Dalenbäck, J.-O., Ekberg, L., Psomas, T., Langer, S. 2022.
A Deep Learning-based detection of Fall Portents for Lone Construction Worker	38th International Symposium on Automation and Robotics in Construction	conference		*Numan Khan, Sharjeel Anjum, Rabia Khalid, Junsung Park and Chansik Park*
Tag and IoT based safety hook monitoring for prevention of falls from height	Automation in Construction	Q1		Muhammad Khana ,Rabia Khalida, Sharjeel Anjuma , Numan Khana , Seungwon Choa , Chansik Parka 2022

Rigorous analysis of safety rules for visionintelligence-based monitoring at constructionjobsites	International Journal of Construction Management	Q1		Doyeop Lee, Numan Khan & Chansik Park 2021
Issah M Alhamad; Riad Saraiji (2022) Indoor Illuminance Selection Procedure Using Fuzzy Techniques, (Scopus Q1, 98% in architecture).	Journal of Building Engineering	Q1		
Issah M Alhamad; Riad Saraiji (2022) Fuzzibility: A new approach to modeling visibility using fuzzy techniques, accepted in the Journal of Architectural Engineering, DOI: 10.1061/JAEIED/AEENG-1405. (Scopus Q1, 97% in architecture).	Journal of Architectural Engineering	Q1		