

# ASOIU'S SUSTAINABILITY PLAN

2023–2030



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## Message from the Rector

ASOIU's seven-year Sustainability Plan, is a collaborative effort across all metrics of the university, which tackles the growing need for a sustainable future. This ambitious plan, with goals in academics, research, operations, and community engagement, aims to make ASOIU a sustainability leader by inspiring collective action on a local, national, and global scale.

The plan's success hinges on collective action within the ASOIU community, aiming to inspire global leadership towards a sustainable future among ASOIU faculty, graduates, alumni and ASOIU affiliated institutions.

This comprehensive plan involved extensive collaboration across students, faculty, and staff from all campus sectors. These are crucial steps towards addressing the pressing challenges of our era.

We set ambitious goals not only for ourselves, but also to inspire others to join us in building a more sustainable future together.

Assoc. Prof. Vazeh Asgarov  
*Acting rector*

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## Introduction/Background

ASOIU's Sustainability Plan is based on a broad block of topics built on the foundation of the university's oil & gas engineering and industrial heritage. Most importantly, this heritage has helped start and already advance sustainability initiatives many years ago at ASOIU. Our sustainability efforts have yielded local progress towards our goals as the university administration has been engaging its faculty, undergraduate and graduate candidates, and the community and solidifying ASOIU's leadership in sustainability among regional higher educational institutions.

It has been over three years since ASOIU has been elaborating on its Sustainability Plan. As a major technological institution, ASOIU is committed to taking on a leading role in meeting environmental, social, and governance challenges. This new seven-year Sustainability Plan outlines a roadmap to achieve our vision. It establishes guiding principles, defines a broader sustainability ecosystem, and details specific goals, objectives, and tasks to drive ASOIU's much needed progress.

## Guiding Principles

At the 2005 World Summit, there was a general agreement that sustainability requires the reconciliation of environmental, social, and economic demands, also expressed as the "three pillars" of sustainability. Such a three-pillar sustainability definitely enhances the importance of Hotelling's Rule which maximizes economic rent as a function of time when non-renewable natural resources are extracted.

Thus, ASOIU is having a serious look at sustainable development goals and has what it takes to serve all three aspects of sustainability: environmental stewardship, economic security, and social justice for all people.

It should also be noted that these three principles work together and our community can succeed when all three of them are factored in any given purpose, be it an investment purpose, economic issue, engineering issue or political purpose. ASOIU has included environmental and sustainability related subject matters in its academic and research programs. Some of these programs are in core curriculum some are tailored as part of the curriculum. Topics included to instill sustainability in daily academic routine of ASOIU are innovation, diversity, maker culture, entrepreneurship, equity, and inclusion, and value creation.

Moreover, ever since its creation as Baku Polytechnicum in 1887, ASOIU throughout many decades has enjoyed a regionally reputable institutional status and through many decades a globally superior university reputation owing to its robust and scientific knowledge base along with its innovative spirit in all spectra of oil and gas industry. This, in its turn proves once more the maker culture that ASOIU is maintaining.

While such values as STEM, design thinking, sustainability, and the startup movement may appear novel to new observers, these recent initiatives are firmly rooted in ASOIU's longstanding tradition of scientific exploration, industrial innovation, and invention, a source of continual pride throughout our history.



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# Vision

## A Global Ecosystem for Sustainable Solutions

ASOIU envisions a world of opportunities in sustainability culture. This culture starts from our campus and extends its roots regionally and globally through our students, faculty and alumni. Through our practice-based curriculum and unique fusion of theory and practice, we strive to be a catalyst for innovative solutions that address the triad of sustainability goals: environmental stewardship, economic security, and social justice.

**Research and Laboratory:** We transform our campus into a vibrant space for experimentation and learning, fostering sustainable practices and solutions.

**Sustainability Committee:** We empower our local and regional community to become a hub for sustainability innovation, collaborating to address local challenges.

**Global Partnerships:** We engage with partners worldwide, building a network of knowledge and action to tackle the most pressing global sustainability challenges.

Through these efforts, we aim to cultivate a vibrant ASOIU community, united in its dedication to creating a more sustainable future for all.



## ASOIU's Sustainability Process

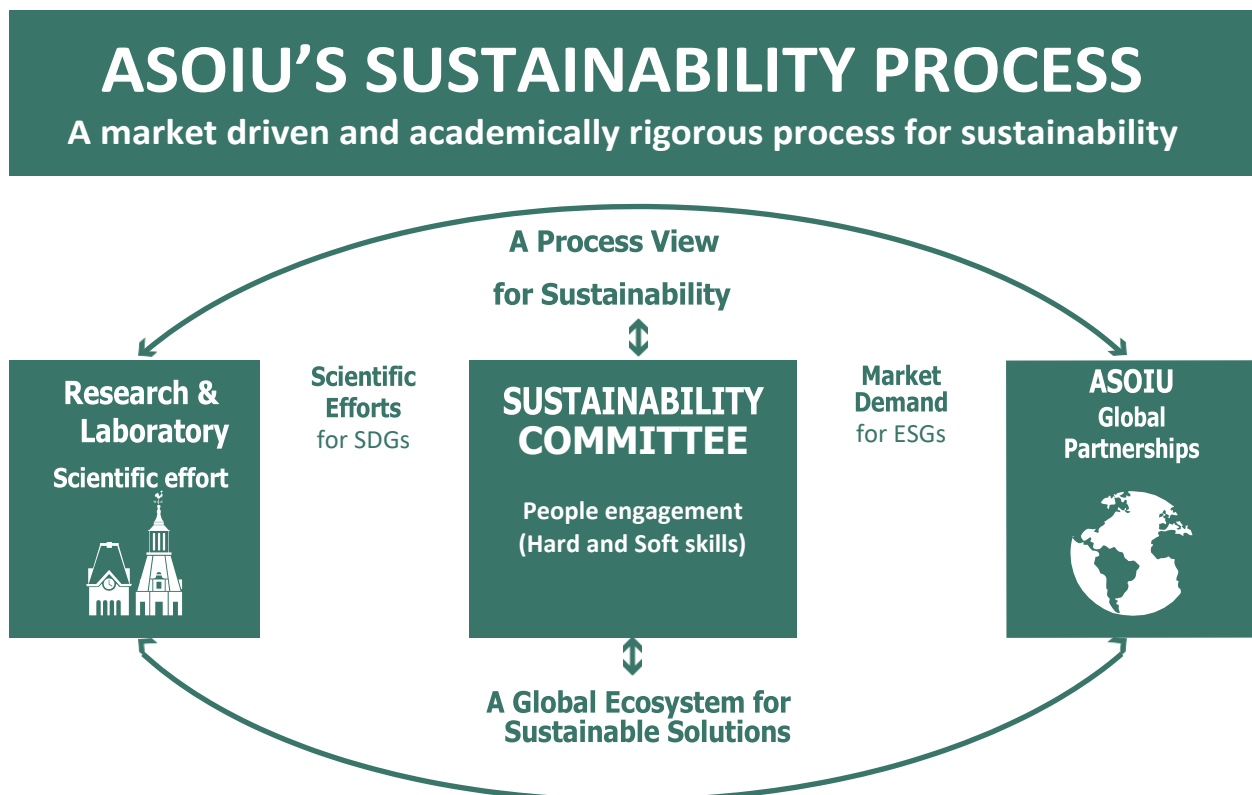
ASOIU looks its sustainability ecosystem concept as a cross-cutting function of scientific research, practical experiment, and entrepreneurial spirit that adds socio-economic value and environmental stewardship through community engagement.

**The Sustainability Process:** ASOIU's Sustainability Process is comprehensive combination of academic, research and community engagement brought to life through many functions of the university: academic departments, centers, commissions, unions, and movements. ASOIU believes in a holistic approach to meeting local, regional, and global challenges in sustainability.

Moreover, ASOIU's sustainability process is driven by both, the fundamentalism of industry demand and environmentally aware consumer needs and self-starting efforts stemming from various dimensions of ASOIU.

ASOIU puts necessary efforts to extend its positive footprint in sustainability through its research and laboratory, sustainability committee, and global partnership. These efforts are realized in ASOIU by academic and research initiatives and programs worldwide and community engagement within and beyond its campus.

These efforts open new opportunities for practical innovation, invention, academic rigor, and scientific research which pave the way for a global impact in the future.



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**The Sustainability Process:** The Sustainability Process is directed as a mixture of our scientific efforts, community engagement, and market driven demand from industry and consumers. For each and every sustainable solution our sustainability committee directs both, campus based and international efforts in involving research and laboratorial resources, selecting best startups for our global community of enthusiasts and professionals at-large. ASOIU's academic departments, affiliated institutions, their programs and offices provide a foundation for our sustainability process view. ASOIU gives the same level of importance to soft skilled team leaders as it does to technically-driven and hard-skilled innovators to drive sustainability initiatives to their successful play.

For broader outreach and dissemination of successful practical progress and scientific activities ASOIU continuously focuses on and issues necessary publications to the larger public in the following areas:

- Academic learning, scholarship, and sustainability focused faculty
- Innovation through scientific research and experimental innovation in sustainability and environmental stewardship
- Innovation through scientific research and experimental innovation within traditional engineering domain
- Organization of on-campus and off-campus volunteer movements, environmental awareness events, and team-building activities
- Publication and dissemination of all sustainability related publications, academic programs, and community activities
- Optimized use of campus space as a learning laboratory for waste sorting, energy efficiency, and responsible consumption
- Environmental purchase plan for all campus endeavors, including transportation, catering, vehicles, appliances, materials, equipment, cleaning
- Electronic document turnover and office supplies
- Inter-disciplinary work with professional and entrepreneurial teams and individuals around community





**Scientific efforts:** Throughout its history of academic existence ASOIU has built a long history of innovation and invention within many domains of oil and gas engineering. ASOIU has been one the early birds in inventing crucial equipment, machinery, and mechanisms for safe exploration and use of natural resources in sub-surface and surface areas of both, onshore and offshore provinces around the globe. These inventions have been commercialized and property rights were monetized by ASOIUS scientists worldwide. This fabric of innovativeness has been interwoven to the culture and spirit of ASOIU’s brick and mortar. ASOIU’s reputation in engineering domain is apparent within the country. Many foreign leaders from Africa, Asia and other remote regions of the world have graduated from ASOIU.

Today ASOIU is aware of its role in environmental stewardship and is committed to advancing sustainability both, locally and globally. In fact, the sustainability plan and the sustainability process accepted by ASOIU is an adapted version of its actionable future potential. This sustainability process is well in line with core values of the university and Sustainable Development Goals (SDGs). Our campus serves as a home station to learn and innovate for sustainability.

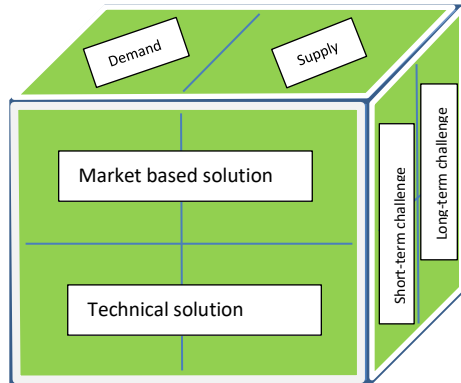
**Market demand:** ASOIU derives market demand from industry thanks to its traditional role in research and development within the domain of engineering. AOIU collaborates with world leading and transnational entities and resource approval holders who bear responsibility for future environmental liability and reclamation works under their belt. Moreover, ASOIU is cooperating with leading institutions in energy and engineering from UK, France and other global regions by offering dual degree programs. Last but not least the ASOIU moderates many more events focusing on efficiency, environment, safety, and sustainability.

We not only receive a market demand but also create it through our efforts around the university. Our major schools and departments, combined with our global and cross-disciplinary efforts help us maneuver for a streamlined faculty and student initiatives to stay the course. For that ASOIU keeps key features of its sustainability matrix through institutional efforts: academic programs, research and scholarship, community engaged operations, laboratory and facilities, and operations



## Result Based Holistic Approach

**Walking the “Talk”:** ASOIU is committed to its mission and vision, long term. Our day-to-day activities are meant to achieve our vision through progress. In our view, progress opens up new opportunities for both sides of the equation: demand and supply side. The same goes to both solutions, consumer-centric, market-based solutions and scientific-technical solutions.



Thus, ASOIU firmly believes in achieving its long-term success through a step-by-step process tackling our short-term challenges which add to our long-term consensus with sustainability, innovation, and invention in mind.

**Dual Programs and Global Partnership:** ASOIU collaborates with leading universities from UK, USA, France and other cutting-edge institutions from industry and science. This helps ASOIU take a real look at its environmental challenges and cooperate through scientific and academic partnerships. An example to illustrate this collaboration is in the area Environmental and Oil and Gas engineering with Warwick university from the United Kingdom. Another dual program has already been running with Georgia State University (USA) for many years already. Here, the program teaches undergraduate and graduate candidates to think efficiently and always look out for optimizations while identifying an innovation pattern.

ASOIU cooperates through its dual UFAZ program with Renn1 and Strasbourg universities from France. These dual degree programs cover a broad range of disciplines in environment, engineering, geology and others. ASOIU is continuously expanding its sustainability outreach by partnering with institutions through various forums, conferences, and events.

Through global academic and scientific partnership and publications ASOIU aims at addressing complex challenges between society, technology, and our environment. Our sustainability plan, in and of itself, reflects a sustainable thought process engraved as a regular attitude in the daily routine of the university.



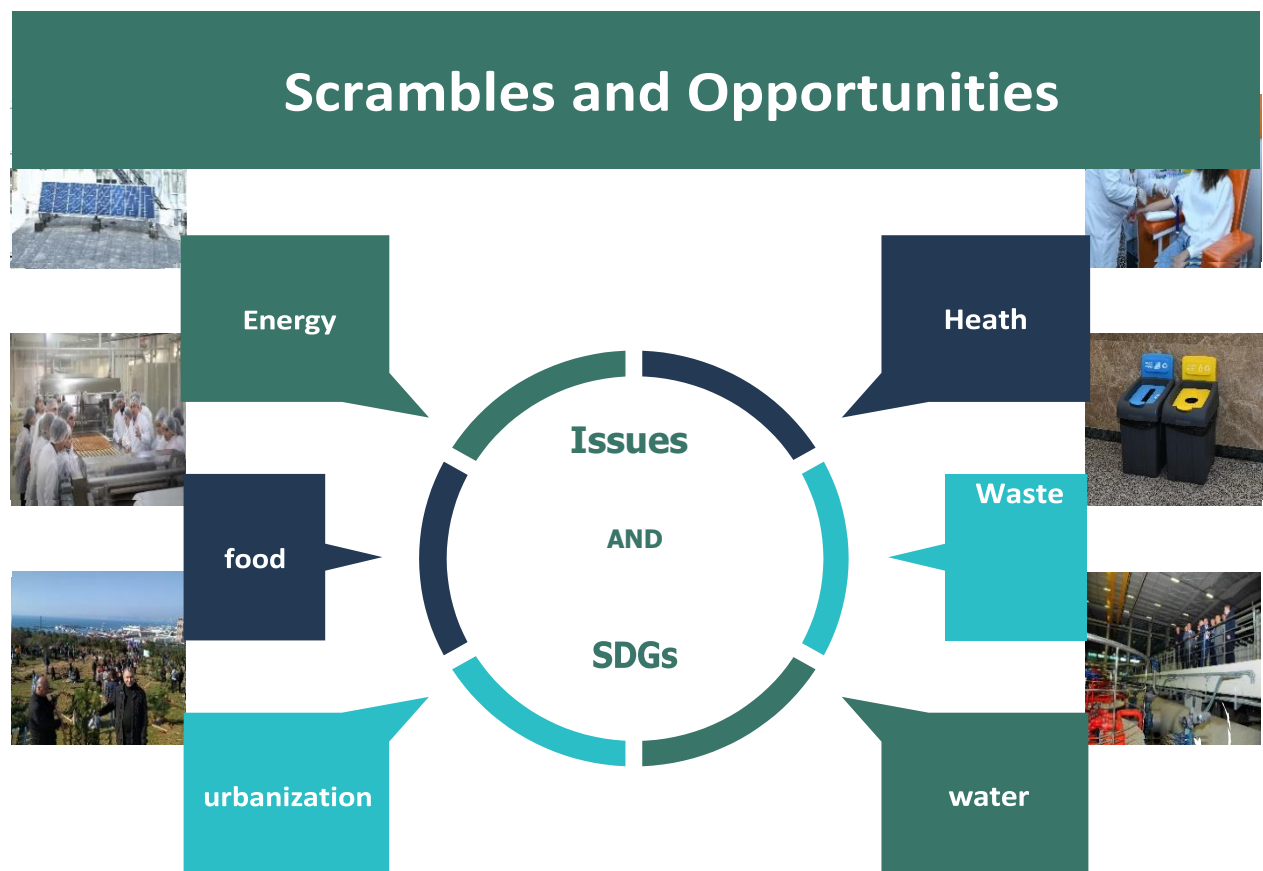
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## The Unmet Demand

ASOIU treats every single opportunity for a sustainable solution as a potential need waiting for its innovative team. These areas contain every aspects of physical and environmental domains including, ground erosion, reservation of water resources and water-treatment, solid waste management, energy generation, energy conversion and transition, energy mobility, energy accumulation, health and social solutions. In our minds eye, there is always an unmet demand that is waiting for its innovative solution and ASOIU community can be an early bird in supplying such a new solution.

Through collaborations with leading universities from UK, USA, France and others ASOIU provides a combined curriculum, robust education and extracurricular events with competencies designed to finetune our cohorts to focus on sustainability, health, security, and well-being of humanity. Our cohorts take part in many globally recognized start-up events, hackathons, connect with maker cultures and bring their own addition necessary for marching their way. One example is our team of innovators from the UFAZ program of ASOIU who won the first place in ActInSpace hackathon based in France.

We believe in our potential to contribute to some of the 17 Sustainable Development Goals (SDG) by the United Nations until 2030. Our holistic view and sustainability process serve as a continuous trigger for success.



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## Addressing Scrambles and Seeing Opportunities

ASOIU has set up a Sustainability Committee to represent the ASOIU community's sustainability voice at-large.

The Sustainability committee is a key consideration in addressing any local and global challenge faced by the society.

The committee works hand-in-hand in a centralized manner with all the academic departments, centers, programs, and foreign institutions. Traditionally, before the committee came to existence, its strategic decisions were made through the rector's office and the scientific council. All practical and operational decisions are always made in a decentralized manner at relevant departments and groups. The Sustainability Committee has planned to converge the High-Performance Computing Center with a new Research Center. This new Research Center will cover broader research topics starting from innovative-scientific issues ending with disability related research matters.

With a number of new initiatives, ASOIU is coordinating all the efforts with its partner universities, as well as with departments, centers, research institutions, events (hackathons, maker competitions etc.).





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## ASOU's Goals

ASOIU's sustainability-based goals extend through its regular operational routine as below. These goals are initiated and addressed via academic programs, research and scholarship facilities, and community engagement.

**Teaching and Cohorts:** Our cohorts learn to solve their academic problems by applying project-based challenges in their coursework where sustainable thinking, theoretical and technical skills accompany one another in solving questions of environmental importance.

**Faculties and Laboratory:** Our faculties engage students, undergraduate, and graduate candidates in research laboratories by addressing real-world problems.

**Merit-Based and Need-Based Scholarships:** ASOIU provides full and partial scholarships to local and international students from all around the globe.

**Extracurricular Activities:** Our view of community is open to and represents all innovative members and groups surrounding our faculty, cohorts, be them local or international.

## Objectives and Tasks

Our plan is made of objectives and tasks. Each goal is supported by related objectives and sub-objectives.

The goals, objectives, and tasks in all four areas support our sustainability ecosystem by advancing sustainability on our campus, within our local community and region, and across the globe by reaching out beyond our campus boundaries through our academic and research initiatives that impact communities worldwide. The goals, objectives, and tasks are summarized in the following pages.





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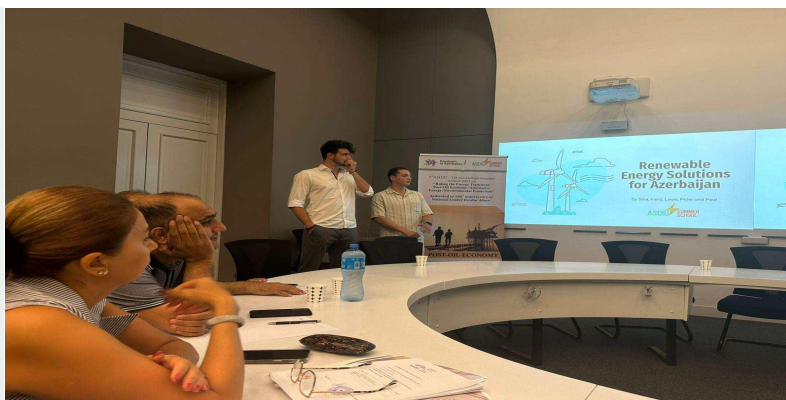
## Goals and Objectives

### Teaching and Cohorts



### Faculties and Laboratory

### Merit-Based and Need-Based Scholarships



### Extracurricular Activities

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## GOAL 1: TEACHING AND COHORTS

**Cohorts learn to solve their academic problems by applying project-based challenges in their coursework.**

Our cohorts learn to solve their academic problems by applying project-based challenges in their coursework where sustainable thinking, theoretical and technical skills accompany one another in solving questions of environmental importance.

### Objectives and Tasks Related to Teaching and Cohorts

Major tasks and objectives determined by a team of students, faculty, and staff are included in in Appendix A with necessary Information on tasks, outcomes, and responsible parties. These objectives are based on and starts with year 2024. Any and all objectives in Goal 1 are created to elevate all related aspects of sustainability and not to limit or subordinate the scope in any one of them.



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# TEACHING AND COHORTS OBJECTIVES

## OBJECTIVE TC1

### Sustainability Learning

**ASOIU students are informed about and motivated to integrate sustainability related topics into their syllabi.**

1

Cohorts in ASOIU learn and integrate sustainability related topics into their coursework.

2

ASOIU organizes and offers new degree programs, majors, minors, subjects, and certificates related to sustainability and environmental stewardship.

3

ASOIU implements sustainability into project-work of any course-pack, syllabus, and program necessary for learning and development.

4

ASOIU take a comprehensive look at all aspects of sustainability including social justice and environmental stewardship by elevating all the necessary aspects and not limiting any SDG area while building the curricula.

## OBJECTIVE TC2

### Sustainable Impact Through Global Partnership

**Our students learn many aspects of sustainability through global academic partnership programs and dual degree majors.**

1

ASOIU cohorts are open and get exposed to international teaching, research, and faculty to explore their potential with leading global institutions through partnership programs.

2

ASOIU encourages its cohorts for both academic and practical cooperation with international community and get students be heard at international demo-days, contests, competitions, and research programs.



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## GOAL 2: FACULTIES AND LABORATORY

**Faculties and laboratory are major leaning points for students, academic faculty, and innovators.**

ASOIU generates its progress thanks to its blended faculty where young professionals interact with mature professorship. This blend is more diversified as ASOIU adds more laboratorial opportunities through its dual degree partnerships with leading foreign institutions from UK, USA, and France. ASOIU promotes social welfare and environmental advancement by emphasizing importance of faculty, academic and scientific facilities.

### Objectives and Tasks related to Faculties and Laboratory

Objectives and tasks stemming from faculties and laboratory are an integral part of day-to-day activities of ASOIU community. Among existing facilities, a new laboratory is agreed to be launched within the framework of dual degree program between Warwick university and ASOIU.





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# FACULTIES AND LABORATORY OBJECTIVES

## OBJECTIVE FL1

### Preserving Our Resources – New Ways To Achieve Sustainability

**ASOIU is leaning on academic, scientific, and technical capacity of its faculty and access to local and foreign facilities in obtaining a technological breakthrough and optimizing social and environmental solutions.**

1

ASOIU initiates and assists in conducting practical research projects with the aim of neutralizing negative externalities coming out of all areas of human activity.

2

ASOIU reduces environmental impacts of conventional energy production and consumption and greenhouse gas emissions by advancing efficiency and considering technology abatement through academics and research studies.

## OBJECTIVE FL2

### Empowering motivated members – A Vibrant Community

**ASOIU leverages all its resources and facilities to support the promotion of a motivated and like-minded innovators. ASOIU's facilities, academic and scientific community are open to both technical and social leaders.**

1

ASOIU engages creative groups of innovators in its resources to maintain momentum with sustainable projects, thinking, and ideas.

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## GOAL 3: MERIT-BASED AND NEED-BASED SCHOLARSHIPS

**ASOIU does not differentiate in extending opportunity to students.**

ASOIU has a long history of providing scholarships to both local and international students from all around the globe. For decades ASOIU has granted scholarships to students from MENA, Europe, Asia and other global regions. Today ASOIU hosts international students from more than 27 countries. As a rule of thumb, our merit-based scholarships cover full cost of tuition of students. ASOIU grants need-based scholarships to students in financial difficulties and other distressed students.

### Objectives and Tasks related to Merit-Based and Need-Based Scholarships

Our major tasks and objectives are to identify and assess potential risks related to students who may be in need of financial assistance. This is especially true of students involved in start-up projects and innovative teams that aim at helping cure environmental, social, and welfare concerns.



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# MERIT-BASED AND NEED-BASED SCHOLARSHIPS OBJECTIVES

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## OBJECTIVE S1

### Sustainability Scholarship – Merit Based

ASOIU grants scholarships to students based on their merit and involvement in sustainability related projects.

- 1 ASOIU extends merit-based scholarships to local and international students who are aware of sustainability issues and/or are involved in promising projects. ASOIU extends merit-based scholarships for research fellows in innovative sustainable fields.
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## OBJECTIVE S2

### Sustainability Scholarship – Need Based

By incorporating cooperative systems approaches (e.g. Circular economy, life cycle analysis, and development engineering), WPI's research and scholarship provides leadership in sustainability.

- 1 ASOIU grants need-based scholarships to local and international students to provide financial assistance. Selection criteria is comprehensive and inclusive and is based on individual circumstances.

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## GOAL 4: EXTRACURRICULAR ACTIVITIES

**ASOIU community will be engaged in innovative projects.**

ASOIU promotes a maker culture not just in its auditoriums but also in broader area of practical experiments and start-up communities. With this in mind ASOIU encourages start-up contests, competitions, hackathons and every possible engagement to help groups of innovators at every step their development. This is done to promote social status, health and welfare of our community, as well as reach new heights in environmental stewardship.

### Objectives and Tasks related to Extracurricular Activities

As provided in Appendix D tasks, measures, and responsible parties for this goal are all-encompassing. The base year starts with 2024 and covers a period of 7 years including the year of 2030. These goals will broaden ASOIU's local and international extracurricular activities.





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# EXTRACURRICULAR ACTIVITIES OBJECTIVES

## OBJECTIVE E1 Sustainable Activities

**ASOIU supports activities that lead to future progress in sustainability. With that in mind ASOIU enables and maintains existing activities that may lead to a future breakthrough in sustainability.**

**1** ASOIU collects, disseminates, organizes, incubates, and accelerates teams that are associated with its community who initiate sustainable projects and/or take part in start-up competitions, hackathons or other form of innovative activities.

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**2** ASOIU supports every initiative at every step of development from its cohorts and community.

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## What is it like living in our campus?

ASOIU has a vibrant culture of welcoming new faculty and students to its collegiate and innovative community. Living in ASOIU's campus and being involved with it academically and creatively is the most desired feature that our students appreciate in surveys and open discussions.

Today's ASOIU leadership is organically mature and has come to today by building international dual degree programs and partnerships with universities from France, USA, UK and other regions. This natural engagement along with the rigor being chased by the institution help maintain the level of professionalism and appreciation within ASOIU community.

## Sustainable ASOIU – what is attainable?

Sky is the limit when it comes to potential introduced by engineering majors. ASOIU has a tone at the top and is committed to that tone of comradery, teamwork, objectivity, integrity, and hard work. To attain every goal stated ASOIU leadership keeps that goal simple and makes sure that there is no politics involved in solving any environmental and engineering issue. Thus, if economically feasible, ASOIU leadership always stands by any sustainability project that has found its team of dedicated individuals. The university calls on the community to engage potential talents in bringing light to sustainability, social justice and environmental awareness.





## How ASOIU supports Sustainability Activities?

The Sustainability Committee defines major vectors of its annual activity by meeting with working groups from ASOIU's relevant departments. These meetings may be repeated until a consensus is reached with regards to one or the other goal or objective. Once approved by the committee chair the objective is transferred to needed parties to generate and/or confirm tasks related to those objectives. Once relevant departments and subjects confirm the plan of activities the committee starts monitoring the progress of these tasks and supports them at all dimensions (including financial, technical, HR, and other matters).

## Sustainability Committee

A well-defined approach for achieving sustainability goals and objectives is critical for success. ASOIU's administrative leadership, including the board of trustees and Rector, has set a strategic goal of developing and implementing a sustainability strategy. The Sustainability Committees and Sub-committees aim to improve collaboration throughout the governance structure, give direction, and develop high-level organizational change initiatives necessary to continue advancing towards a sustainable university. They will give feedback, assess institutional plans, objectives, and targets, and create a sustainability strategy for senior leadership approval. This includes developing and managing annual and multi-year sustainability plans for community engagement and services, recommending how sustainability should be integrated into institutional plans, advising on a change framework, tracking and evaluating progress, and advocating for the institutional integration of sustainability principles and ongoing initiatives into all aspects of university operations.



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## Key Roles:

### *Chair of the Committee*

- Assumes responsibility for positioning the institution to meet the goals defined in the Sustainability Plan, as well as convening and guiding the stakeholders in the implementation of the Sustainability Plan's goals.
- Supervises efforts across all areas while focusing on the academic aspects and working with the Co-chair who focuses on the operational aspects.
- Provides expertise and positions ASOIU as a leader in sustainability efforts on campus, in the community, and globally.

### *Co-chair of Committee*

- Reports to the Chair of the Sustainability Committee
- Works in collaboration with the Chair of Sustainability to realize the goals and support the initiatives of the ASOIU community. Involved in planning, implementing, and evaluating sustainability programs at ASOIU, focusing on operational and community aspects.





### ASOIU Sustainability Committee Members

Chairman: Vazeh Asgarov – Associate Professor, Acting Rector

Co-chairman: Gasim Mammadov – Associate Professor, Vice-rector for Academic affairs

Co-chairman: Rafiq Jamalov – Associate Professor, Vice-rector for International relations

Co-chairman: Latafat Gardashova – Professor, Vice-rector for Scientific affairs

#### Sub-committee:

Ulviyya Abbasova – Associate Professor, Deputy vice-rector for International Relations, ASOIU's responsible person for QS

Sevinj Mammadkhanova – Professor, Dean of the Faculty of Chemical Technology

Aydin Aliyev – Associate Professor, Dean of the Faculty of Energy

Fariz Amirov – Professor, Head of the “Technology of Organic Substances and High-Molecular Compounds” department

Araz Aliyev – Professor, Head of the “General and Applied Mathematics” department, Head of the HPC Center

Agamehdi Agayev – Associate Professor, Director of The Museum of Mineralogy

Sakit Rasulov – Professor, Head of the “Industrial Safety and Labor Protection” department

Shukur Nasirov – Associate Professor, Head of the “Energy production technologies” department

Shahin Ismayilov – Associate Professor, Head of the “Oil and Gas Engineering” department

Sakit Samadov – Associate Professor, Advisor on industrial cooperation and alumni affairs

Elviz Ismayilov – Director of the Digital Development and Innovation center and General and Applied mathematics teacher

Nigar Ismayilova – Associate Professor, Teacher of General and Applied Mathematics, QS Coordinator, Scientific executor at HPC Center

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Sabina Gurbanova – Head of International Relations Section at International Cooperation Office  
Nurida Jalilli – Specialist for International Projects at International Cooperation Office  
Shahla Ahmadova – Specialist for International Projects at International Cooperation Office  
Chingiz Garayev – Specialist for Cooperation with Foreign Partners at International Cooperation Office

### Working Groups

**Chairman: Hamzat Hudulov** – holds a bachelor's degree in oil and gas engineering from the Azerbaijan State Oil and Industry University (ASOIU) and currently, he is pursuing a master's degree in the field of offshore oil and gas well drilling at ASOIU.

He has completed internships at SOCAR AQS and SOCAR CDWT in a drilling department and currently works as a Junior Offshore Drilling Engineer at SOCAR AQS.

Hamzat actively engages with communities, societies, and students. He joined the Society of Petroleum Engineers (SPE) in 2018 and has been serving in SPE community leadership roles since 2019, including those of SPE ASOIU chapter officer, president, and currently serving as Student Chapter Liaison at the SPE Azerbaijan section. Since 2021 he has also been involved with renewable energy activities, where he lead and established the first Energy Summit, Caspian Energy Summit, in the region (<https://jpt.spe.org/twa/spe-student-summit-on-renewable-energy-discusses-energy-transition-in-russia-caspian-region>) and educational project covering renewable energy sources within SPE with the support of local and international companies & professionals (<https://jpt.spe.org/twa/empowering-the-future-celebrating-the-success-of-spe-energy-school-in-azerbaijan>). Over the years, he has participated in various local and international committees and successfully organized conferences, summits, etc.

**Co-chairman: Kamran Heydarov** - third year bachelor's student in Chemical Engineering with a strong interest in chemical analysis and research. Also, Kamran is a "Brain Student" of ASOIU. He was an intern on Petroleum education at Institute of Petrochemical Processes named after Academician Yusif Mammadaliyev. The internship provided valuable experience in oil research through hands-on work in specialized labs. The focus on catalysis in oil exploration and refining, along with mentorship, fueled the intern's passion for a career in petrochemicals. Also, he is lab assistant at Azerbaijan State University of Oil and Industry. He assisted professors in undergraduate labs (1-4) at UFAZ and ASOIU, helping students with experiments and theory for a richer learning experience. This role strengthened my love for teaching and research. Kamran is founder and president of Science Club. Science Club is a club society run by ASOIU students. It was created as an alternative to the volunteer organizations of foreign companies that currently exist in the university and organizes seminars, competitions, training in chemistry, physics, mathematics, IT and the like.

**Co-chairman: Raul Abdullayev** – pursuing a bachelor's degree in chemical engineering from the Azerbaijan State Oil and Industry University (ASOIU) and currently, he is pursuing a bachelor's degree in the field of chemical and process engineering at ASOIU. Raul actively engages with communities, societies, and students. He joined the Society of Petroleum Engineers (SPE) in 2022. Since 2023 he has also been involved with renewable energy activities, and educational projects covering renewable energy sources within SPE with the support of local and international companies & professionals. Over the years, he has participated in various local and international committees.







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## Annual Reporting

Annual reports are issued by the Sustainability Committee to monitor and release information on progress toward sustainability goals. The report is comprehensive and covers all areas of activity provided in the Sustainability Plan.





## Acknowledgements

The ASOIU Sustainability Plan has come to life thanks to relevant departments (“Technology of organic substances and high molecular compounds”, “Electric power”, “Petrochemical technology and industrial ecology” and “Industrial safety and Labor protection” departments, Rector’s office, International cooperation office and etc.)

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# **APPENDICES**

## **Objectives and Tasks**

**Including seven-year  
outcomes and responsible  
parties**

## Appendix A: Teaching and Cohorts

### Goal 1: TEACHING AND COHORTS

Objective TC1: SUSTAINABILITY LEARNING: — ASOIU students are informed about and motivated to integrate sustainability related topics into their syllabi.

Objective TC1.1: Cohorts in ASOIU learn and integrate sustainability related topics into their coursework.

Teaching and Cohorts Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU integrates sustainability into its undergraduate education by including it in learning objectives and principles.	Learning outcomes are defined	Office of the Provost
Task 2: ASOIU aims to boost students' engagement with sustainability by enhancing their exposure to it and broadening their involvement in academic programs related to sustainability.	10% increase in number of students enrolled and graduating per year	Sustainability Committee
Task 3: ASOIU plans to pinpoint courses with a strong focus on sustainability and devise methods to acknowledge students' coursework in sustainability.	Ongoing tracking shows an increase in number of intensive courses and recognition	Sustainability Committee
Task 4: ASOIU will promote students in complementary fields to pursue double majors or minors in sustainability-related areas, such as sustainability engineering or sustainability studies.	10% increase in number of students per year	Sustainability Committee; Environmental & Sustainability Studies
Task 5: ASOIU will assess and promote academic programs and disciplines to incorporate sustainability within their curricula.	10% increase in number of programs per year	Sustainability Committee

Objective TC1.2: ASOIU organizes and offers new degree programs, majors, minors, subjects, and certificates related to sustainability and environmental stewardship.

Teaching and Cohorts Tasks	7-year Outcome	Responsible Party
Task 1: ASOIU will monitor the quantity and characteristics of initiatives and programs aimed at supporting our sustainability objectives, as well as the enrollment and graduation rates of students participating in these initiatives.	Increase in number of major initiatives in place for major areas of sustainability, and numbers of students actively engaged	Sustainability Committee
<b>Task 2:</b> ASOIU will provide support for the creation of new programs and initiatives aimed at furthering our sustainability objectives.	Increase in number of major initiatives in place to support goals in major areas of sustainability	Sustainability Committee
<b>Task 3:</b> ASOIU will identify funding channels and create a "sustainability expert-in-residence" or "professor of practice" role. This position will involve an individual with industry or practical expertise in sustainability, tasked with supporting academics and facilitating collaboration between ASOIU's faculty, staff, and students, and external entities such as funding agencies, government bodies, or non-governmental organizations focusing on sustainability.	Position is created and engagement is in place	Office of the Provost; Academic Departments

Objective TC1.3: ASOIU implements sustainability into project-work of any course-pack, syllabus, and program necessary for learning and development.

Teaching and Cohorts Tasks	7-year Outcome	Responsible Party
Task 1: ASOIU will assess the concepts of social justice and human needs within sustainability-related courses, projects, and activities, and will endorse the expansion of content in these domains.	Social justice is included in coursework and projects	Talent and Inclusion; Sustainability Committee

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<b>Task 2:</b> ASOIU will advance Diversity/Equity/Inclusion in sustainability education and activities.	DEI is reflected in sustainability-related educational activities/projects	Talent and Inclusion; Sustainability Committee
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## Teaching and Cohorts (continued)

Objective TC1.4: ASOIU take a comprehensive look at all aspects of sustainability including social justice and environmental stewardship by elevating all the necessary aspects and not limiting any SDG area while building the curricula.		
Teaching and Cohorts Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will monitor and evaluate projects integrating sustainability, leveraging new initiatives for e-projects and library tracking as part of this process.	Project tracking is in place, with increase number of sustainability themed projects by 10% each year	IT and Library Services
<b>Task 2:</b> ASOIU will evaluate the impact of project-based learning on the advancement of sustainability goals and explore ways to enhance this approach to improve learning outcomes for all students.	Learning outcomes are established, assessment and continuous improvement process in place	Office of the Provost; Sustainability Committee
<b>Task 3:</b> ASOIU will advance the on-campus project centers (sustaining ASOIU project center, food and energy sustainability project centers, STEM).	Number of projects and students participating is increased by 10% per year	Sustainability Committee; Provost Office
<b>Task 1:</b> ASOIU will assess the concepts of social justice and human needs within sustainability-related courses, projects, and activities, and will endorse the expansion of content in these domains.	Number of initiatives is increased by 20%	Provost's Office for Administrative and Economic Affairs; Sustainability Committee
Task 5: ASOIU will foster strong connections between facilities/operations and academia to facilitate student projects and research endeavors.	Number of projects is increased by 10%	Provost's Office for Administrative and Economic Affairs; Sustainability Committee
Task 6: ASOIU will create dedicated workspace to facilitate student project work and foster innovation in sustainability.	Working space is established and supports/promotes sustainability	Provost's Office for Administrative and Economic Affairs; Sustainability Committee
<b>OBJECTIVE TC2: SUSTAINABLE IMPACT THROUGH GLOBAL PARTNERSHIP:</b> Our students learn many aspects of sustainability through global academic partnership programs and dual degree majors.		
Objective TC2.1: ASOIU cohorts are open and get exposed to international teaching, research, and faculty to explore their potential with leading global institutions through partnership programs.		
Teaching and Cohorts Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will enhance the student experience and impact in the sustainability area as it relates to the major and mission initiative.	All students identify significance of their programs in relation to sustainability, increase in number of students engaged	Major and Mission initiative; Sustainability Committee
Task 2: ASOIU will monitor and publicly report on the effects of our projects and academic sustainability endeavors, including initiatives like the Project-Based Learning Center and ASSISTments, on communities beyond the ASOIU campus.	Program is initialized to quantify impacts, increase in number and types of projects	Project-based Learning Center
<b>Task 3:</b> ASOIU will advance academic activities, programs, and curricula that promote STEM to enhance the awareness and knowledge of sustainability for a wide array of audiences (youth, college/adult, etc.)	Student participation increases by 10% per year	Project-based Learning Center
Task 4: ASOIU will uphold a physical presence on campus that embodies and exemplifies sustainability as a fundamental element of ASOIU's strategic plan.	Space is made available and sustainability is routinely showcased	Provost's Office for Administrative

		and Economic Affairs; Sustainability Committee
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## Teaching and Cohorts (continued)

Objective TC2.2: ASOIU encourages its cohorts for both academic and practical cooperation with international community and get students be heard at international demo-days, contests, competitions, and research programs.		
Teaching and Cohorts Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will review and enhance Innovation/Entrepreneurship in our sustainability initiatives.	Sustainability is integrated as part of I/E	Innovation and Entrepreneurship; Sustainability Committee
Task 4: ASOIU will uphold a physical presence on campus that embodies and exemplifies sustainability as a fundamental element of ASOIU's strategic plan.	Design thinking includes sustainability concepts	Innovation and Entrepreneurship; Sustainability Committee
Task 4: ASOIU will uphold a physical presence on campus that embodies and exemplifies sustainability as a fundamental element of ASOIU's strategic plan.	Student participation increases by 10% per year	Project-based Learning Center
Task 4: ASOIU will uphold a physical presence on campus that embodies and exemplifies sustainability as a fundamental element of ASOIU's strategic plan..	Space is made available and sustainability is routinely showcased	Provost's Office for Administrative and Economic Affairs; Sustainability Committee

## Appendix B: Faculties and Laboratory

**GOAL 2 - FACULTIES AND LABORATORY** - Faculties and laboratory are major leaning points for students, academic faculty, and innovators

Task 4: ASOIU will uphold a physical presence on campus that embodies and exemplifies sustainability as a fundamental element of ASOIU's strategic plan.

Objective FL1.1: ASOIU initiates and assists in conducting practical research projects with the aim of neutralizing negative externalities coming out of all areas of human activity.

Faculties and Laboratory Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will create a new laboratory with Warwick university within the framework of dual degree program with Warwick university.	A new laboratory will be created	Sustainability Committee; Working groups
<b>Task 2:</b> ASOIU will reduce paper printing.	25% reduction in paper spending	IT
<b>Task 3:</b> ASOIU will reduce food waste and landfill waste.	10% reduction in pounds of food waste each semester	Dining Services, Sustainability Committee; Provost's Office for Administrative and Economic Affairs
<b>Task 4:</b> ASOIU will increase green purchasing in accordance with its green purchasing policy	Green purchasing is widely considered in procurement efforts	Procurement
<b>Task 5:</b> ASOIU will reduce disposal of unused chemical products.	25% reduction in tons of chemical waste	Environmental Health and Safety
<b>Task 6:</b> ASOIU will reduce environmental impacts of maintenance through the implementation of a robust PM program.	A PM program is implemented, with a 15% reduction in number of failures	Provost's Office for Administrative and Economic Affairs
<b>Task 7:</b> ASOIU will improve laboratory equipment sharing by creating an equipment inventory system.	10% reduction in lab equipment purchases	Provost's Office
<b>Task 8:</b> ASOIU will reduce water consumption on a per capita basis.	15% reduction in gallons of water/FTE	Sustainability Committee; Provost's Office for Administrative and Economic Affairs
<b>Task 9:</b> ASOIU will provide increased opportunities for student projects that impact the operations of our campus.	The number of IQPs and MQPs on campus related subjects is increased.	Sustainability Committee

Objective FL1.2: ASOIU reduces environmental impacts of conventional energy production and consumption and greenhouse gas emissions by advancing efficiency and considering technology abatement through academics and research studies.

Faculties and Laboratory Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will continue energy efficiency projects.	10% reduction in Kwh/FTE	Sustainability Committee; Provost's Office for Administrative and Economic Affairs
<b>Task 2:</b> ASOIU will implement additional renewal energy systems on campus.	25% increase in Kwh of renewable energy production	Sustainability Committee; Provost's Office for Administrative and Economic Affairs
<b>Task 3:</b> ASOIU will reduce greenhouse gas emissions.	20% reduction in metric tons of Scopes 1 and 2 emissions beyond what was established in the 2022 Carbon Emissions	Sustainability Committee; Provost's Office for Administrative and



	Reduction Plan	Economic Affairs
<b>Task 4:</b> ASOIU will construct new academic and residential buildings that will be LEED-certified.	New construction will achieve LEED ratings	Sustainability Committee; Provost's Office for Administrative and Economic Affairs
<b>Task 5:</b> ASOIU will reduce computing energy consumption.	20% reduction in Kwh/FTE from 2030 level	Information Technology
<b>Task 6:</b> Campus set-points and night setbacks will be implemented campus-wide.	An implemented university policy has achieved 10% reduction in occupied hours/sq. ft	Provost's Office for Administrative and Economic Affairs

## Faculties and Laboratory (continued)

<b>OBJECTIVE FL2: EMPOWERING MOTIVATED MEMBERS – A VIBRANT COMMUNITY – ASOIU</b> leverages all its resources and facilities to support the promotion of a motivated and like-minded innovators. ASOIU’s facilities, academic and scientific community are open to both technical and social leaders		
Objective FL2-1: ASOIU engages creative groups of innovators in its resources to maintain momentum with sustainable projects, thinking, and ideas.		
Faculties and Laboratory Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will improve alternative modes of transportation—walking, bikes, ridesharing.	15% reduction is shown in number of SOV commutes/FTE	Sustainability Committee
<b>Task 4:</b> ASOIU will uphold a physical presence on campus that embodies and exemplifies sustainability as a fundamental element of ASOIU's strategic plan.	30% decrease is shown in gallons of fossil fuel	Provost's Office for Administrative and Economic Affairs; Campus Police
<b>Task 3:</b> ASOIU will evaluate carbon emissions resulting from travel related to student projects, athletics, or other activities, and consider alternatives.	Implement data capture for trips in miles/FTE and alternative transportation modes are considered	Sustainability Committee
<b>Task 4:</b> ASOIU will reduce its parking footprint by implementing parking management plan.	Implement parking management plan is in place to reduce number of parking spaces and avoid construction of new parking lot	Provost's Office for Administrative and Economic Affairs
<b>Task 5:</b> ASOIU will increase sustainable food sources.	5% increase in spending each year	Dining Services
<b>Task 6:</b> An on-campus garden will be created.	Garden is created	Dining Services; Provost's Office for Administrative and Economic Affairs
<b>Task 7:</b> ASOIU will promote plant-based versus meat-based diet choices.	5% increase in volume of plant-based foods consumed	Dining Services
<b>Task 8:</b> ASOIU will implement a carbon footprint software.	Implement Compass software	Dining Services
<b>Task 9:</b> Dining Services will provide information kiosks to promote sustainable and healthy food choices.	Kiosks are installed to communicate and educate community on sustainability and healthy choices	Dining Services



## Appendix C: Merit-Based and Need-Based Scholarships

### GOAL 3: MERIT-BASED AND NEED-BASED SCHOLARSHIPS

**OBJECTIVE S1: SUSTAINABILITY SCHOLARSHIP – MERIT BASED:** ASOIU grants scholarships to students based on their merit and involvement in sustainability related projects.

Objective S1.1: ASOIU extends merit-based scholarships to local and international students who are aware of sustainability issues and/or are involved in promising projects. ASOIU extends merit-based scholarships for research fellows in innovative sustainable fields.

Merit-Based and Need-Based Scholarships Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will monitor and evaluate sustainability-related research funding, publications, theses, dissertations, presentations, patents, and various outreach efforts.	Number of grants, publications, student thesis work, and amount of funding for sustainability is increased by at least 10% per year. Breadth and quality of publications exhibit steady improvement	Office of Sponsored Programs in coordination with Sustainability Committee
<b>Task 4:</b> ASOIU will uphold a physical presence on campus that embodies and exemplifies sustainability as a fundamental element of ASOIU's strategic plan.	Number of research groups communities and impacts/ outcomes in different areas is increased.	Sustainability Committee; Provost's Office (Research)
<b>Task 3:</b> ASOIU will develop/promote research initiatives that employ creative scholarship, and also promote design thinking, innovation, and entrepreneurship into all aspects of sustainability.	Initiatives; internal and external engagement with I/E and Design development is increased.	Provost's Office (Research); I/E; Sustainability Committee

Objective S1.2: SUSTAINABILITY SCHOLARSHIP – NEED BASED.

Merit-Based and Need-Based Scholarships	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will monitor funding, publications, presentations, student research, patents, and other outreach activities, with a focus on scholarship, impact, and relevance to Innovation, Entrepreneurship, and Value Engineering.	Tracking process is established, number of grants and amount of funding, publications, patents, etc. has increased	Provost's Office; I/E; Sustainability Committee
<b>Task 2:</b> Sustainability Committee will promote the development of relationships with partners from the private (e.g. Industry) and public sectors (e.g. government) to advance sustainability research, scholarship, and innovation.	An increased number of partnerships and research initiatives that involve external partners in sustainability	Provost's Office; Sustainability Committee
<b>Task 3:</b> ASOIU will identify funding sources and create a position for a "sustainability expert in residence" or "professor of practice". This role will involve an individual with industry or applied expertise in sustainability, tasked with serving as a liaison between ASOIU's faculty, staff, and students, and external entities such as funding agencies, government bodies, or non-governmental organizations focusing on sustainability. Collaboration with academics will be a key aspect of this role.	Position is created and engagement is in place	Provost's Office; Academic Department(s)
<b>Task 4:</b> Sustainability Committee will collaborate with I/E office to promote initiatives that advance impact of research.	An increased number of I/E initiatives are in place each year, with tracking of I/E advancement	I/E; Sustainability Committee



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## Appendix D: Extracurricular Activities

**GOAL 4: EXTRACURRICULAR ACTIVITIES** — ASOIU community will be engaged in innovative projects.

**Objective E1: SUSTAINABLE ACTIVITIES**— ASOIU supports activities that lead to future progress in sustainability. With that in mind ASOIU enables and maintains existing activities that may lead to a future breakthrough in sustainability.

**Objective E1.1:** ASOIU collects, disseminates, organizes, incubates, and accelerates teams that are associated with its community who initiate sustainable projects and/or take part in start-up competitions, hackathons or other form of innovative activities.

Extracurricular Activities Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will involve and educate ASOIU stakeholders through diverse communication channels, including events, websites, social media, pitch competitions, resource fairs, conversations, and more.	90% of campus is aware of sustainability objectives through increased communications	Sustainability Committee; Marketing and Communications
<b>Task 2:</b> ASOIU will increase the level of awareness of sustainability events, activities, and opportunities at ASOIU to ensure that all stakeholders are reached.	25% increase in participation	Sustainability Committee; Marketing and Communications; Student Affairs
<b>Task 3:</b> ASOIU will broaden the living inventory of sustainability activities, metrics, and achievements, both on campus and beyond.	Inventory is accessible to ASOIU and beyond	Sustainability Committee
<b>Task 4:</b> ASOIU will facilitate easy access to all proposed and completed student projects related to sustainability.	Project database is accessible to ASOIU and beyond	IT and Library Services
<b>Task 5:</b> ASOIU will creatively promote community engagement in sustainability, and promote the campus as a living laboratory for sustainability action.	Number of active engagements in sustainability throughout the campus community increases	Sustainability Committee; Marketing and Communications; Student Affairs; Provost's Office

**Objective E1.2:** ASOIU supports every initiative at every step of development from its cohorts and community.

Extracurricular Activities Tasks	7-year Outcome	Responsible Party
<b>Task 1:</b> ASOIU will assess progress toward adopting a culture of sustainability at ASOIU (e.g., awareness, values, beliefs),	Strong culture of sustainability across campus is seen by increase in event participation	Sustainability Committee
<b>Task 2:</b> ASOIU will assess and enhance levels of involvement in sustainability-related academics, clubs, events, activities, and programming.	A 10% increase is seen in engagement of sustainability programming	Sustainability Committee
<b>Task 3:</b> ASOIU will effectively publicize sustainability metrics and accomplishments.	Number of updates increases each term	Sustainability Committee
<b>Task 4:</b> ASOIU will incorporate components of sustainability into performance reviews based on sustainability measures.	Components of sustainability is incorporated into review process	Talent and Inclusion
<b>Task 5:</b> ASOIU will advance the reward and recognition of sustainability achievements through the development of a variety of sustainability awards.	Number of staff and student sustainability awards increase	Sustainability Committee



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&  
Industry  
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