

## Template for Evidence(s) UI GreenMetric Questionnaire

University : Alexandria University  
Country : Egypt  
Web Address : <https://alexu.edu.eg/>

### [4] Water (WR)

#### [4.3] Water Efficient Appliances Usage (e.g. hand washing taps, toilet flush, etc.)



Water Efficient Appliances Usage (Alexandria University, Egypt)



Supplying water taps with water conservation units (Alexandria University, Egypt)



**Description:**

Some examples of water conservation measures include, low flow of urinal flushing, low flow of toilet flushing and low flow taps.

Appliance	Total Number	Total number water Efficient appliances	Percentage
Urinal	208	100	48%
Toilet	416	180	43%
bathroom faucets (Water taps)	1605	1090	68%
Showers	30	20	67%
		<b>Average Percentage</b>	<b>56.5%</b>

**Alexandria University program to decrease the water consumption in its faculties and buildings:**

Campus water use is an important indicator in the sustainability scale. The aim is to urge universities to reduce water use, increase water conservation programs, and protect the environment. Among these criteria:

- The water conservation program,
- The water recycling program
- The use of water-saving equipment
- The treatment of wastewater

- 1- The University has applied a strategy in the faculties to decrease water consumption through installation of special parts on water taps, showers, toilette and bathroom bidet which can conserve about 50% of water consumption.  
Water saving devices are used instead of traditional devices. For example, the use of a hand-washing faucet with automatic control via a sensor, and high-efficiency bathroom devices. Supplying water taps with water conservation units.
2. Adopting a mechanism to maintain water pipes to prevent waste resulting from leaks.



3. Adopting plans and mechanisms for maintaining the taps and internal supply networks of the university to prevent water wastage.
4. Providing a sewage treatment plant at the university to make it suitable for irrigating green areas and gardens inside the university campus.
5. The irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture is recycled to irrigate the crops, vegetables, and fruits of the land farm. The recycled water is rich with natural fertilizers and enhances the crops production.
6. In addition, the water recycling in Fish Aquaculture of the Faculty of Agriculture, Alexandria University: The water sewage of the Aquaculture of the Faculty of Agriculture, Alexandria University which consist of eight ponds (one acre and quarter/each) in Abis region. Alexandria University used the recycled water for crops culturing in the adjacent agriculture research center in Abis.
7. The use of biochar produced from Agricultural waste and waste Forests in residual removal chlorpyrifos pesticide Imidacloprid is from water agricultural drainage. Cooperation project between the Egyptian Academy of Research Science and Technology and the Czech Academy of Sciences.
8. IOT Pilot Project in Egypt by Shanghai Water Saving Irrigation Corp. Etd performed an automatic controlled irrigation systems IOT project for modern irrigation technology. The company implanted the IOT platform project to irrigate economic crops and facilitate irrigation systems to overcome the water shortage problems in Egypt. This project will be performed in Alexandria University Farm for agroecological farming in Egypt.

**Additional evidence link:**

**Link for Green University:**

[https://alexu.edu.eg/index.php/?option=com\\_content&view=article&id=5932&catid=21&lang=ar-AA](https://alexu.edu.eg/index.php/?option=com_content&view=article&id=5932&catid=21&lang=ar-AA)

VICE PRESIDENT

Community Service & Environment Development

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2. Adopting a mechanism to maintain water pipes to prevent waste resulting from leaks.
3. Adopting plans and mechanisms for maintaining the taps and internal supply networks of the university to prevent water wastage.
4. Providing a sewage treatment plant at the university to make it suitable for irrigating green areas and gardens inside the university campus.
5. The irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture is recycled to irrigate the crops, vegetables, and fruits of the land farm. The recycled water is rich with natural fertilizers and enhances the crops production.
6. In addition, the water recycling in Fish Aquaculture of the Faculty of Agriculture, Alexandria University: The water sewage of the Aquaculture of the Faculty of Agriculture, Alexandria University which consist of eight ponds (one acre and quarter/each) in Abis region. Alexandria University used the recycled water for crops culturing in the adjacent agriculture research center in Abis.
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Sincerely,

  
**Prof. Ashraf Elghandour, MD**  
**Vice president of graduate Students & Research**  
**Acting Vice president Community Service &**  
**Environment Development**  
**Alexandria University**

Entity	LED bulbs	Computers	Airconditions	photocopiers	Surveillance Cameras	Fire extinguishers	Fire Alarm Systems	Fire hydrants	Bathroom Faucets
1 General Administration	2000	403	142	88	37	177	1	10	100
2 General Administration of University Cities	5500	130	234	19	23	729	0	0	55
3 General Administration of Libraries	0	75	9	5	16	168	1	0	8
4 Faculty of Dentistry	4600	169	269	36	61	166	1	0	485
5 Faculty of Pharmacy	5700	444	165	34	85	271	0	0	125
6 Faculty of Medicine	7000	761	186	96	86	571	1	45	10
7 Faculty of Veterinary Medicine	68	238	42	40	4	160	0	0	1
8 Faculty of Nursing	1050	225	92	34	40	155	0	0	100
9 Faculty of Science	3290	500	217	42	32	464	1	65	10
10 Faculty of Engineering	8610	312	23	21	39	375	1	0	42
11 Faculty of Tourism and Hotels	350	122	43	9	0	85	0	0	6
12 Faculty of fine Arts	0	107	53	21	0	300	0	0	10
13 Faculty of Physical Education for Girls	294	193	26	27	25	343	1	4	10
14 Faculty of Physical Education for Boys	100	165	65	20	0	145	0	0	50
15 Faculty of Economics & Political Science	2200	49	19	20	0	50	1	0	10
16 & Faculty of Computer Information Sciences	377	150	41	5	0	51	1	0	12
17 Faculty of Education for Early Childhood	662	50	30	9	0	53	0	14	10
18 Faculty of Law	1300	243	170	65	0	172	1	0	37
19 Faculty of Education	2500	300	73	11	30	134	0	33	10
20 Faculty of Commerce	13404	724	227	25	25	150	0	0	176
21 Faculty of Agriculture	3300	353	40	45	42	205	0	0	76
22 Shabhy Faculty of Agriculture Saba Pasha	0	0	0	0	0	0	0	0	0
23 Faculty of Arts	2200	239	126	24	48	83	0	0	22
24 Faculty of Specific Education	344	102	29	20	6	62	0	0	14
25 Medical Research Institute	3256	333	353	17	37	193	0	0	10
26 Institute of Graduate Studies & Research	870	182	80	18	30	116	1	0	216
27 High Institute of Public Health	0	0	0	0	0	0	0	0	0
Total	68975	6376	2754	751	666	5378	11	171	1605

General Manager  
Dr. Nadira Sobhy Mohamed

Nadira 17-10-22