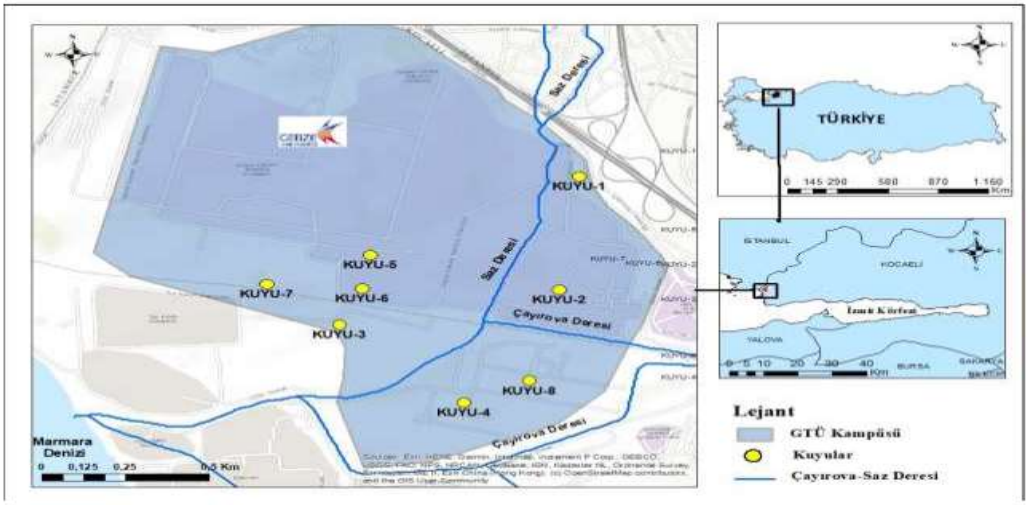
Template for Evidence(s)
UI GreenMetric Questionnaire

University : Gebze Technical University
Country : Turkiye
Web Address : www.gtu.edu.tr

[4] Water (WR)

[4.1] Water Conservation Program Implementation

1



Location of grandwater wells on GTU campus

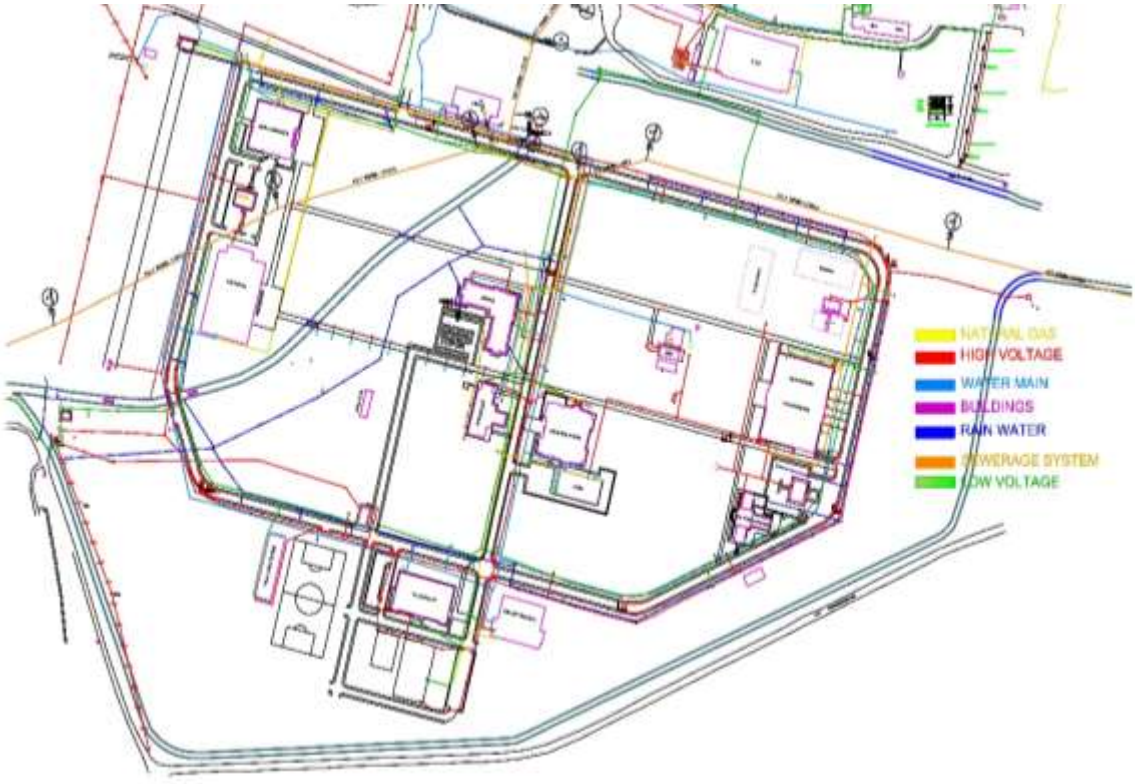
ÜNİVERSİTEDE MEVCUT KUYULAR VE KUYU SUYU KULLANIMI

Gözlem İstasyonu	Koordinatlar		Ortalama Su Seviyesi (mt)	Arazi seviyesinden Kuyu Derinliği	
	Enlem	Boylam			Mevcut Su seviyesi
Kuyu-1/Eski Sera	40°48'50.78"K	29°21'47.45"D	2,55	8,1 mt	5,3mt
Kuyu-2/Öğr. Yemekhane	40°48'35.03"K	29°21'44.39"D	3,65	11 mt	4,7mt
Kuyu-3/Asemlab	40°48'30.79"K	29°21'16.16"D	2,88	7 mt	3mt
Kuyu-4/Kimya Müh.	40°48'19.62"K	29°21'31.63"D	2,23	9,2 mt	6,6mt
Kuyu-5/Personel Yemekhane	40°48'40.40"K	29°21'20.46"D	5,63	9,6 mt	1,7mt
Kuyu-6/Cami Yanı	40°48'35.73"K	29°21'19.29"D	5,01	6,2 mt	2 mt
Kuyu-7/Sumer	40°48'22.47"K	29°21'40.17"D	2,88	10,3 mt	7,4mt

PEYZAJ SULAMADA KUYULARDAN KULLANILAN SU MİKTARI		
HAZİRAN	15 Ton/gün	300 Ton/ay
TEMMUZ	15 Ton/gün	345 Ton/ay
AĞUSTOS	15 Ton/gün	330 Ton/ay
EYLÜL	15 Ton/gün	315 Ton/ay
TOPLAM		1.290 Ton/yıl

Total water consumption from wells for campus irrigation

Wells, well water use data and well locations



Map of sewer system

Example of message sent by the sustainability office

Saz Creek

Water Conservation Program Implementation at GTU (Gebze Technical University, Turkiye)

Description:

As a result of the activities shown above implemented by GTU, 1 - 25% water conservation is achieved.

1) The total annual water consumption in GTU in 2023 is 112,175 m^3.There are eight underground water wells within the university campus that are used for irrigation purposes (around 1290 m^3/year). Detailed data is shown in Picture 1. This picture also shows the locations of the eight wells on campus. Rainwater is filtered through the soil and collected in these wells. These groundwater wells are one of GTU's most important assets. Thanks to these resources, annual water savings of approximately 1,14% are achieved. All buildings of the Gebze Technical University have a separate sewerage system, for waste water and for clean water (rainwater).
2) The sustainability office sends messages on awareness on saving water resources, to-do and not-to-do lists, and to encourage people to save water resources. Example 3 shows several precautions for reducing water usage at our homes and recycling water (the last precaution in the banner says to build rainwater tanks near residences and use this water for irrigation purposes).
3) The Saz Stream (Saz Creek) passing through the GTU Campus is an important stream that is also under the pressure of industry located at the Gebze location. Rehabilitation of the creek was finished 8 years ago; the banks of the stream to prevent flooding were performed using natural landscaping techniques, and in some locations, artificial walls were constructed. Figure 4: (a) the natural banks of the Saz Stream; (b) a flood wall designed according to 100-year flow for the downstream part of the stream; c) the Saz Stream view. In addition, water quality is measured by sampling Saz Creek at regular intervals.