

Environmental Report 2022

WU Vienna

WU

WIRTSCHAFTS
UNIVERSITÄT
WIEN VIENNA
UNIVERSITY OF
ECONOMICS
AND BUSINESS



EMAS

Geprüftes
Umweltmanagement

REG. NO. AT-000691

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This translation serves solely to provide information. Accuracy of content can only be guaranteed for the German original.
Vienna, February 2022

Preface

WU is an international university and aware of its responsibility to society and the research community. WU acts conscientiously in all that it does, contributing to a comprehensive understanding of the interaction of economic, social, and ecological factors – and, in this way, contributing to a sustainable economy.

WU is committed to its responsibility and sustainability, which is why environmentally sustainable behavior is integrated into all university activities: teaching, research, and

administration. In our Environmental Guidelines, we state our commitment to protecting and conserving our natural resources through sustainable development. We want to do our part to keep this world sustainable for future generations. The continuous, long-term improvement of our environmental performance will remain an important element of WU's corporate identity in the future.

Edeltraud Hanappi-Egger
WU Rector



WU has had Austria's first climate-neutral university campus since 2019. Environmental responsibility is a key requirement for all university activities, and the principle of sustainability was already a fundamental premise in the planning, construction, and operation of the WU campus. All of the buildings on campus have been certified according to "Blue Building" standards (a further development of "Green Building" certification). Operational workflows and processes are aimed at reducing the environmental impact through emissions, waste, and wastewater. At the beginning of 2019, the environmental management system on campus was successfully recertified in accordance with EMAS (Eco-Management and Audit Scheme) and ISO 14001. These two most well-known certifications in the field of environment and sustainability distinguish WU's environmental management system, and are proof that WU actively fulfills its role as a responsible university with regard to the environment and sustainability.

All sectors of WU have been climate-neutral in operation since 2019, but it is impossible to completely avoid CO₂ emissions in day-to-day operations. By supporting selected climate protection programs, WU compensates for the unavoidable carbon emissions caused by the continuous operation of its facilities. In addition to reducing the use of resources and increasing its resource-saving and sustainable acquisitions and investments, the university's comprehensive and ongoing dialog with all of its stakeholders ensures a positive development with regard to environmental protection. The innovative creation of a platform for representatives of all departments, service providers, and students constitutes an important part of this dialog, giving them the opportunity to participate in regular "Green Buddies" meetings and help shape the further development of environmental management at WU.

Tatjana Oppitz

WU Vice-Rector for Digitalization and Infrastructure
EMAS (Eco-Management and Audit Scheme) officer
by appointment of the university management



Als Projektleiter freut es mich, dass wir an der Wirtschaftsuniversität Wien die Möglichkeit und die Chance bekommen haben, das Thema Nachhaltigkeit in Form eines zertifizierten Prozesses stetig weiterentwickeln zu können. Die international anerkannte EMAS-Zertifizierung weist, ebenso wie die ISO 14001-Zertifizierung, die WU Wien und mit ihr alle WU Angehörigen als nachhaltige Organisation in bestem Sinne aus. Die Auszeichnung als Umweltteam des Jahres 2018 durch das BMNT hat uns in unserem Weg weiter bestärkt.

Mein Dank gilt neben den Hauptakteuren Campusmanagement auch allen Mitarbeitenden und Studierenden, ohne deren Unterstützung das ambitionierte Projekt nicht durchführbar wäre. Gleichzeitig darf ich auch für die Zukunft um größtmögliches Engagement Aller ersuchen, damit Nachhaltigkeit an der WU Wien eine Erfolgsgeschichte bleiben kann.

Mag. Christoph Kecht
Leiter Campusmanagement
Umweltmanager WU Wien



What Services Does WU Provide?

WU (Vienna University of Economics and Business) provides a diverse range of well-organized degree programs and a broad selection of specializations and research areas.

In a constant dialog with the business community, WU is able to achieve high outputs in both basic and applied research. More than 500 academic staff members and lecturers ensure academic diversity, ranging from business administration and economics to formal studies, law, social sciences, and linguistics. WU's almost 22,000 students benefit greatly from this diversity.

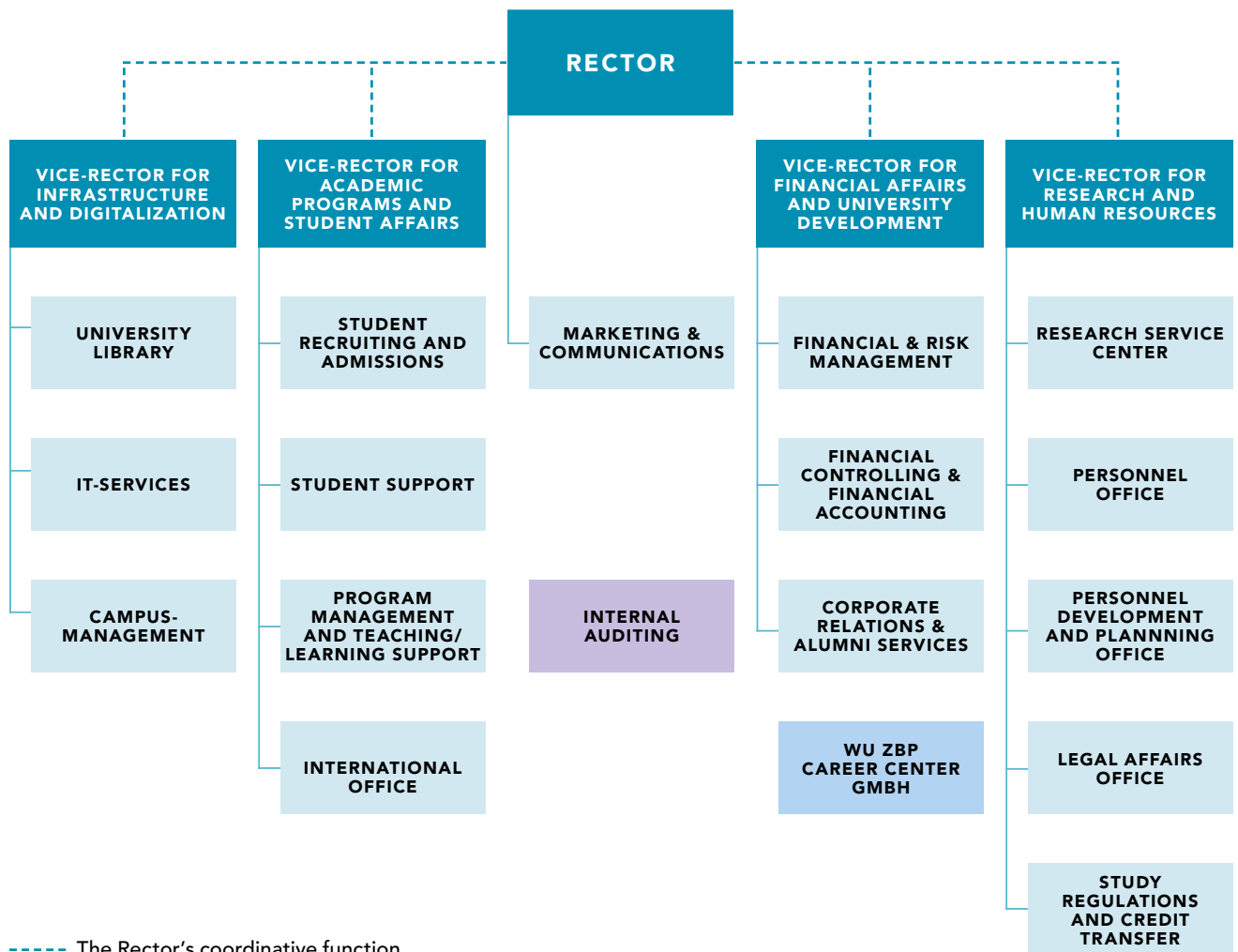
The new campus in Vienna's second district is home to internationally renowned lecturers and researchers. It features state-of-the-art auditoriums, Austria's largest library for economic sciences, as well as numerous student workstations for independent study and PC labs.

These advantages also help attract students from abroad: About 25% of the students enrolled at WU are international students, and every year more than 1,000 exchange students choose to spend their time abroad at WU.

WU has more than 240 partner universities, including the University of Michigan, Emory University, Bocconi University, Copenhagen Business School, and HEC Paris, as well as the best universities in Central and Eastern Europe and top schools in the Far East.

WU MASTER DATA	
Organization name	Vienna University of Economics and Business (WU Vienna)
Address	Welthandelsplatz 1 and 2, 1020 Vienna
Phone	+43 -1-31336-0
E-mail	christoph.kecht@wu.ac.at
Website	wu.ac.at
Rector and EMAS (Eco-management and Audit Scheme) management representative	Edeltraud Hanappi-Egger
Vice-Rector and EMAS officer by appointment of the university management	Tatjana Oppitz
Environmental manager	Christoph Kecht
Deputy environmental manager	Gregor Bauer
Competence Center for Sustainability Transformation and Responsibility (STaR)	Sigrid Stagl
Environmental coordinators/Safety officers	Günter Stahl
Deputy environmental coordinators	Manfred Lauterbrunner
	Andrea Lindenthal
	Christian Hütter-Schrottenbaum
	Rainer Wicke
Sector	Higher education
NACE Code	85.42
Function	Teaching and research
Established	1898
Number of academic staff members/ students	Academic staff 1,060/Others 1,469 WS: 21,271 / SS: unknown
Annual budget (in million €)	152

Organization of WU Vienna



WU's Organizational Structure Plan

ORGANIZATIONAL STRUCTURE OF THE DEPARTMENTS FOR TEACHING AND/OR RESEARCH

Departments

Economics
Finance, Accounting and Statistics*
Foreign Language Business Communication
Global Business and Trade
Information Systems and Operations Management Management*, **
Marketing*
Private Law
Public Law and Tax Law
Socio-Economics
Strategy and Innovation*

Research institutes

Capital Markets
CEE Legal Studies
Computational Methods
Co-Operation and Co-Operatives Cryptoeconomics
Economics of Aging
Economics of Inequality
European Affairs (Research Institute for European Affairs)
Family Business
International Taxation
Liberal Professions
Regulatory Economics
Spatial and Real Estate Economics
Supply Chain Management
Urban Management and Governance

Competence centers

Center for Business Languages
Emerging Markets and CEE
Empirical Research Methods
Experimental Research
Nonprofit-Organizations and Social Entrepreneurship
Sustainability Transformation and Responsibility (STaR)
WU Entrepreneurship Center

WU Executive Academy

* The departments Finance, Accounting and Statistics, Information Systems and Operations, Management, Marketing, Strategy and Innovation, and Global Business and Trade all belong to the "Convention of Business Administration-Related Departments".

** The implementation of the interdisciplinary gender research and teaching tasks specified in § 49 of the Plan for the Advancement of Women have been transferred to the Department of Management.



Mission Statement

MISSION STATEMENT

WU is a research-intensive public university aware of its social responsibility, and its main goal is to prepare students for taking on responsible roles in business and society. At WU, young people acquire the academically sound skills they need to contribute to overcoming economic, social, legal, and ecological challenges – through future-oriented expertise and responsible economic practices. True to its role as an open-minded institution, WU also sees itself as an international university, as an important hub for global exchange, and as a place where students and teachers work together. Open-mindedness and diversity were already among the university's key values at WU's founding in 1898. WU is committed to the principles of fairness and equal opportunities, scientific integrity, academic freedom, and especially plurality in topics and methodology. WU is a responsible university.* This means that WU not only accepts responsibility for the quality of its performance in research, teaching, and third mission activities, but also that it acts in a socially responsible manner in all that it does.

WHAT WE WANT TO ACHIEVE

Being the only university of business and economics in Austria, WU contributes significantly to the international reputation of Vienna as a business location and to the reputation of Austrian higher education. For those reasons, it is obligated to maintain and further improve its high standards in teaching and research.

TEACHING

One of WU's key goals is to fulfill its mission as an educational institution on the basis of excellent research and research-led teaching. WU graduates have a wide range of skills and competences that are crucial for the roles and tasks they will perform during their future careers: well-founded expertise in business, economics, social sciences, and business law, and especially the ability to analyze complex problems on a solid academic basis and develop sustainable solutions, but also strong social skills and a sense of independence and individual responsibility. WU graduates are also excellent team players with an internal outlook, open-minded attitude, and ability to reflect upon their actions.

RESEARCH

WU's goal in research is to deliver excellent research performance, generate new knowledge in the fields of business and economics, and create added value from its clear commitment to a plurality of disciplines. WU's variety of business- and economics-related disciplines is the basis for meeting future challenges by ensuring a broad scope in the university's research activities and discipline-specific approaches in the development of efficient and sustainable solutions to different problems. This plurality of disciplines also provides strong potential for innovation and creativity that makes it possible to continuously identify and address new, future-oriented topics in WU's research and teaching activities.

Excellence in research means that WU's researchers maintain an intensive dialog with the scientific communities they are a part of and that they are making excellent contributions to the development of their disciplines. Excellent research is one of the most important preconditions for WU to be able to implement the principle of research-led teaching. Providing support to junior researchers is one of WU's highest priorities.

INTERNATIONALIZATION

International networking has always been of great importance to WU and will be even more so in the future: Around 240 partner universities and WU's memberships in networks such as PIM, CEMS, or THEMIS primarily promote student exchange. WU participates in global networks (such as GBSN) in order to exchange ideas with other universities on questions of responsible business teaching and education.

In research, WU promotes international cooperation between individuals, which is reflected in the co-authorship of numerous publications. WU faculty members frequently participate in international calls for applications together with researchers from outstanding partner universities. In addition, WU has programs to promote international networking, such as the "Fulbright-Hall Distinguished Chair," which brings two renowned US professors to WU every year.

*WU is also guided by the six principles of PRME (Principles for Responsible Management Education). WU has been a member of the network since 2015 and integrates PRME's guidelines on sustainability and responsibility in teaching and research for the training of future managers.

As a responsible university, WU is in contact with excellent international universities that have positioned themselves globally as responsible universities and innovators (e.g. in the networks SIGMA and PRME). In addition, WU also cooperates with international organizations such as OECD, UNO, or UNIDO.

SHAPING ECONOMY AND SOCIETY

As Austria's only business and economics university, WU has a special role to play. For one, WU graduates hold key positions in business and society that enable them to help shape the future in a responsible manner. For this reason, maintaining close contact to alumni is particularly important to WU. Apart from that, WU also contributes to the public discourse on business and economics in many different ways – in particular through social activities, knowledge exchange, and practically oriented cooperation partnerships. WU is a partner in solving problems and maintaining a close exchange of ideas with non-academic organizations, private businesses, public-sector institutions, and for-profit and non-profit organizations.

In this context, it is one of WU's explicit goals to set an example in its capacity as a responsible university, both in Austria and internationally

WU AS AN EMPLOYER

WU sees itself as a modern, dynamic, knowledge-based organization aiming to offer its employees high-quality jobs. In all areas where the university is able to offer permanent career options, WU aims to base its human resource policy on particularly transparent models. WU is developing appropriate personnel development tools for academic and administrative staff, taking into account the issue of increasing diversity. In addition to research output, WU's performance evaluation criteria for academic careers also include aspects like involvement and qualifications in teaching and social engagement. Supporting junior researchers and increasing employees' qualification levels have a high priority.

CORPORATE IDENTITY

WU's self-imposed standards go beyond the education of its approximately 22,000 students. The 2,100 members of WU's faculty and staff are constantly working on developing and improving the quality of teaching, research, and life on campus in all areas.

Above all, WU stands for excellent and research-led teaching, which allows us to contribute to sustainable thinking and responsible business actions. In that way, we can play a part in finding solutions to economic, social, and ecological problems.

One of the goals WU has set itself is to achieve and maintain a place among the world's leading institutions of higher education.

WU is working to strengthen its global profile by offering a range of English-taught master's programs, and by emphasizing internationalization in its research activities. WU's triple accreditation by EQUIS, AACSB, and AMBA – the three foremost international accreditations for business and economics universities – is a testimonial of WU's high quality standards. WU's excellent international reputation is reflected in its student population: Roughly, one in four students on campus has come to study at WU from abroad.

Excellent research is another main cornerstone of WU's mission. This includes not only strengthening WU's profile as a research university, but also participating in public discourse with society and exchanging knowledge with all relevant stakeholders. Continuous work to strengthen and promote research is one of WU's key priorities for the future.

Apart from its impressive, award-winning architecture, WU's modern campus also boasts a range of attractive dining options and publicly accessible grounds that encourage students, staff, and area residents to explore Campus WU and enjoy its unique atmosphere. Campus WU provides meeting places and open spaces and has given Vienna's second district a completely new neighborhood.

Environmental Guidelines

STUDYING SUSTAINABLY

In 2014, WU made some important decisions for the future. A new Strategic Plan was drafted as part of the “WU 2020” strategy process, which involved intensive discussion of WU’s profile with all relevant committees and representatives from many different areas. The Strategic Plan includes goals for teaching and research as well as WU’s first mission statement. In addition, WU has made an even clearer commitment to focusing on its impact: With regard to knowledge transfer, WU is committed to making the results of its research available to all socially relevant groups.

Another future-oriented step was WU’s spatial expansion: Under the terms of the 2013–2015 Performance Agreement, WU was able to significantly increase its resources for staff and teaching. In order to meet its increasing demands for additional space, WU acquired a new building (D5) in close proximity to Campus WU in 2013. The building was completed in 2014, and the interior construction work began that year. WU moved in on schedule in the summer of 2015.

INTERNATIONALIZATION AS A FUNDAMENTAL PRINCIPLE

WU’s international ambitions are aimed mainly at maintaining its prestigious triple accreditation by the three foremost international accreditation agencies for business and economics universities (EQUIS, AACSB, and AMBA), as a testimony of its high quality. WU also wants to strengthen its international position with its English-taught master’s programs, and to be included among the internationally most outstanding universities in selected key research areas.

COMPETENCE CENTER FOR SUSTAINABILITY TRANSFORMATION AND RESPONSIBILITY (STAR) – FOCUSING ON SOCIAL AND ECONOMIC DEVELOPMENT

Sustainable development is a central challenge of our time. WU accepts this challenge and is committed to the principle of sustainability in teaching, research, knowledge exchange, and university management, based on our social responsibility as a university. This is why a Competence Center for Sustainability was already established at WU in 2013, which was later replaced by the STaR Center (Center for Sustainability Transformation and Responsibility).

WU COMPETENCE CENTER FOR SUSTAINABILITY TRANSFORMATION AND RESPONSIBILITY (STAR) – FOCUSING ON SOCIAL DEVELOPMENT

Sigrid Stagl (Socioeconomics) and Günter K. Stahl (International Business) have been the heads of the STaR Center since January 1, 2019. The core team is made up of an interdisciplinary group of scholars from the social sciences (management, economics, psychology, sociology, and political science), natural sciences (ecology/theory of evolution), and the humanities (intercultural communication, comparative literature). In addition, the Center has 17 formally associated faculty members (STaR WU Faculty Members). Another group of young faculty members was also recently established, consisting of doctoral students and post-docs from various disciplines (STaR Intellectual Community) whose research and teaching focuses on social and environmental issues.

The main goal of the Center is to establish itself as an interdisciplinary institution for research, teaching, and social commitment (third mission), dealing with the major challenges of our time, as embodied in the UN Sustainable Development Goals (SDGs). STaR's activities focus on three key issues:

- › (1) How can different agents contribute to achieving the ambitious goals set in the SDGs?
- › (2) How can political, economic, institutional, and cultural contexts facilitate or hinder sustainable development?
- › (3) How can we connect WU's SDG pioneers and increase the impact of their work at the interface between science and society?

Based on these considerations, the Center's objectives are to provide a common platform for networking, knowledge exchange, and the dissemination of academic work on ecological, social, and economic sustainability, and to support WU's social responsibility as a driver of sustainable transformation (third mission).

In order to achieve these goals, STaR organizes research conferences and seminars, workshops, and public events. In addition, the Center is accessible online via its website and three social media channels and offers numerous opportunities for exchange. The Center also serves as a link between the WU community (students, faculty, and staff) and external stakeholders. Between April and December 2019, STaR (co-)organized and/or (co-)hosted 10 different events aimed at the scientific community (focused research conferences and smaller research

workshops), the public, or both. All of those events helped raise awareness of the SDGs (either specific SDGs or the overall framework). The size of the events ranged from 15 (expert workshop by invitation only) to 550 guests (an open event for the interested public). The STaR team also contributed to nearly 15 other events at WU and other institutions by helping with content and speakers, logistics, and advertising.

Apart from organizing events, STaR is working to establish itself as a meeting place for the various departments and members of the WU community who deal with sustainability in general and SDGs in particular. In this role, it works closely together with the WU Environmental Management team, the Volunteering@wu office, the International Office, the Executive Academy, and all major student organizations.

In addition to the regular exchange between the two teams from Environmental Management and STaR, where current developments and projects are discussed (organization of the SDG Day, representation of Environmental Management or the Green Buddies at Welcome Week), the Green Buddies are also an important part of this cooperative work.

PODCAST



Inside Impact Podcast – sustainability series

The Inside Impact podcast explores where “social entrepreneurship meets sustainability”. Seven episodes with inspiring people illuminate various aspects of sustainability. Exciting guest researchers share ideas and insights on the UN Sustainable Development Goals (SDGs). These include professors such as Giuseppe Delmestri, inspiring social business founders like Theresa Imre from markta, representatives from NGOs and institutions like the Ban Ki-moon Centre to an in-depth look at WU with Rector Edeltraud Hanappi-Egger. Episodes are available on all popular podcast formats and in English.



For more information on the podcast please visit:

[wu.ac.at/sec/sec-podcast](https://www.wu.ac.at/sec/sec-podcast)

or our Instagram channel:

[instagram.com/insideimpact_/?hl=de](https://www.instagram.com/insideimpact_/?hl=de)

The Social Entrepreneurship Center and WU Competence Center STaR worked together on this topical focus.

RESPONSIBLE UNIVERSITY

As a “responsible university”, WU is increasingly active in areas related to sustainability and environmental management, whether as a member of the international Principles for Responsible Management Education network (PRME), as part of the national Alliance of Sustainable Universities in Austria or on Campus WU with numerous innovative environmental projects. WU takes its social responsibility in research, teaching, its Third Mission and corporate management very seriously. It contributes to a deeper understanding of the interplay of economic, social and ecological factors – and as such to sustainable economic activity. WU is responding to the need for a broader perspective on the economy by expanding the discourse on sustainability into one on responsibility. The Competence Center for Sustainability was reorganized a part of this process. The WU Competence Center for Sustainability Transformation and Responsibility (STaR) opened its doors in 2019.

The “Inside Impact” podcast features an interview with Rector Hanappi Egger about sustainable universities.

WU COMPETENCE CENTER FOR SUSTAINABILITY TRANSFORMATION AND RESPONSIBILITY (STaR)

With the Competence Center for Sustainability Transformation and Responsibility (STaR), WU established an interdisciplinary center for dealing with the grand challenges of our time. The STaR Center serves as a platform for networking, knowledge exchange, curriculum development and awareness raising on the issues of ecological, social and economic sustainability on the UN Sustainable Development Goals (SDGs).

Two WU economists, Professor of Ecological Economics Sigrid Stagl (Socioeconomics) and Professor of International Management Günter K. Stahl (International Business) have headed up the STaR Center since January 1, 2019.

The STaR Center focuses on

- › Knowledge transfer via events
- › Supporting and networking with the WU community
- › Supporting and fostering student engagement
- › Integration into international academic sustainability networks
- › Sustainability@WU – gathering and providing facts and reports along with information about activities, resources and initiatives on sustainability at WU

The STaR Center is interdisciplinary – which is reflected in the diversity of those involved and the Center's activities. STaR consists of a core team, affiliated professors (faculty members) the STaR Intellectual Community (volunteers) and students.

Faculty Members

The many WU faculty members involved make the STaR Center unique. STaR WU faculty leverage their time and knowhow to support the competence center's work.

- › Number of affiliated professors: 15

STaR Intellectual Community

Younger faculty members, in particular PhD students and post-docs from various disciplines, can also contribute to the STaR Intellectual Community and address social and ecological sustainability in their research and teaching.

This is an opportunity for young faculty members to exchange information, kick off projects and access a growing community.

- › 19 people are currently members of the STaR Intellectual Community

Students

WU teaches students to be responsible managers and business experts. The STaR Center views supporting students and student organizations in their commitment to sustainability as a key part of its mission. It provides resources and knowhow for events and projects, while also helping with theses that address sustainability (finding supervisors and topics). Currently, a list of around 180 potential supervisors is available to students. Students can also talk about their work in interviews, which are featured on the website. Right now there are 28 interviews available in which students explain their topics and motivation and give practical tips. The STaR Center also works with student organizations and talks to prospective master's students about the services it provides.

WU community building

STaR is also dedicated to supporting the WU community in activities in the field of sustainability by providing up-to-date information, administrative support and internal networking. To achieve these goals, STaR hosts research conferences and seminars, workshops and public events. The center maintains a website and a presence on social media channels. The competence center serves as a liaison between the WU community (students, faculty, staff) and external stakeholders.

Events

2021 Events (selection)

- › **June:** A Day for Visibility: Improving working conditions in the cleaning sector and decreasing health risks (lead at WU by STaR Intellectual Community member Dr. Karin Sardadvar)
 - › 50 attendees
 - › [wu.ac.at/presse/presseaussendungen/presseaus-sendung-details/detail/unverzichtbar-systemrele-vant-arbeit-von-reinigungskraeften-sichtbar-machen](https://www.wu.ac.at/presse/presseaussendungen/presseaus-sendung-details/detail/unverzichtbar-systemrele-vant-arbeit-von-reinigungskraeften-sichtbar-machen)
- › **July:** 2021 NBS Sustainability Centers Community Workshop (12–15 July) with NBS, FH Wien der WKW
 - › [wu.ac.at/en/star/news-details/detail/2021-nbs-sustainability-centers-community-workshop](https://www.wu.ac.at/en/star/news-details/detail/2021-nbs-sustainability-centers-community-workshop)
 - › Videos: [wu.ac.at/en/star/resources/star-videos](https://www.wu.ac.at/en/star/resources/star-videos)
 - › +200 attendees
 - › Speaker: Message from President Dr. Alexander Van der Bellen and Minister for the Environment Leonore Gewessler
- › **December:** WU matters WU talk: Sustainability Matters – How to Inspire Entrepreneurs
 - › [wu.ac.at/en/star/news-details/detail/sustainability-matters-how-to-inspire-entrepreneurs](https://www.wu.ac.at/en/star/news-details/detail/sustainability-matters-how-to-inspire-entrepreneurs)
 - › +250 YouTube views (within 24h) attendees

Internal networking

In addition to organizing events, STaR is establishing itself as a (virtual) meeting place for the various units and stakeholders at WU who are concerned with sustainability in general and the SDGs in particular. It works with Volunteering@WU, the International Office, the Executive Academy and student organizations as well as Environmental Management.

Cooperation with Environmental Management involves regular meetings to exchange information, joint event planning (organizing SDG Day, presentations at Welcome Week and International Staff Days) supervising the Green Buddies (see Communication, p 23) and individual projects.

- › Project: Sustainable Development and Environmental Management

The experts from WU Environmental Management and STaR contributed their expertise on sustainable development and corporate environmental management to the WU4Juniors financial literacy project.

WU4Juniors uses free online learning modules to foster an understanding of current and relevant topics in the economic sciences. The online modules are designed for upper secondary school students, and include various exercises and videos with WU experts who shed light on the issue of sustainable development at the governmental, corporate, and individual level. The videos featured WU Environmental Management Head Christoph Knecht, STaR Center Director Sigrid Stagl, STaR Center Manager Dr. Milda Zilinskaite, expert Prof. Stefan Giljum and two students involved in the Green Buddies.

The online modules are available on the free WU LearnPublic learning platform.



WU4Juniors

Was bedeutet nachhaltige Entwicklung?

JOIN MODULE >



WU4Juniors

Wie kann nachhaltige Entwicklung auf nationaler Ebene umgesetzt werden?

JOIN MODULE >



WU4Juniors

Was bedeutet nachhaltige Entwicklung für Unternehmen?

JOIN MODULE >



WU4Juniors

Was kann ich als Teil der Gesellschaft beitragen?

JOIN MODULE >

Networking activities

STaR represents WU at regular meetings and conferences in international sustainability networks: Principles for Responsible Management Education (PRME, Working Group LEAP), Network for Business Sustainability (NBS) and the Copernicus Alliance, as well as nationally at the Alliance of Sustainable Universities in Austria, which is particularly important for environmental management at WU.

ALLIANCE OF SUSTAINABLE UNIVERSITIES IN AUSTRIA

The alliance joins forces to strengthen sustainability in teaching, research and university management at universities and thus contribute to a sustainable society. Currently 19 Austrian universities are members of the Alliance. So far, sustainability experts have come together at 32 focused meetings to discuss best practices, exchange knowhow and talk about environmental management, teaching, research and knowledge.

In addition to exchange, the goal is to jointly develop guidelines and standards to be implemented by the member institutions. The Alliance's website provides numerous resources on sustainability topics and further information on the Alliance's working groups.

› nachhaltigeuniversitaeten.at

Example: Sustainable procurement

The "Sustainable Procurement at Universities" working group drafted guidelines for sustainable procurement with input from WU Campus Management. The "Guide to Sustainable Procurement" lists relevant regulations, practical information on seals and products groups, and best practices.

› nachhaltigeuniversitaeten.at/wp-content/uploads/2021/10/Beschaffungsleitfaden_2021.pdf

OUR ENVIRONMENTAL GUIDELINES WERE UPDATED, APPROVED, AND COMMUNICATED IN-HOUSE IN JANUARY 2018.

WU ENVIRONMENTAL GUIDELINES

Protecting and conserving our natural resources through sustainable development is a high priority for WU. With its environmental management system, WU wants to contribute to the conservation of the natural resources required for human life in future generations. For this reason, WU is committed to raising environmental awareness among its faculty, staff, and students, and provides encouragement and support for them to act in a sustainable, environmentally conscious manner and actively address issues of environmental protection in research, teaching, and other areas. It is very important to us to educate our students to become responsible opinion leaders who spread the idea of sustainable development. WU is also committed to full compliance with the applicable legal regulations, provisions, and requirements for environmental protection. WU's goal is to make contributions to environmental protection and sustainability that go beyond the legal requirements.

WU protects the environment through the economical and efficient use of resources and is seeking to reduce its consumption of materials and increase recycling. WU is committed to sustainability in its workflows and processes and is working to lighten its ecological footprint by reducing emissions, waste, and waste water. WU expects its suppliers and service providers to adhere to the same environmental standards it has set for itself. As far as possible, we encourage our business partners to make the goods and services they supply to us more environmentally friendly. Within the scope of its activities, WU creates organizational structures that are conducive to the effective implementation of these guidelines, and it is continuously evaluating the success of the measures taken. Comprehensive reporting is performed on a regular basis to document past and future environmental improvements and communicate them to the public.

Becoming a Sustainable University

MILESTONES ON THE PATH TO A "SUSTAINABLE UNIVERSITY"

The main objective of the Alliance of Sustainable Universities in Austria is to create a network of universities to exchange ideas and best practice examples on sustainability processes and strategies.

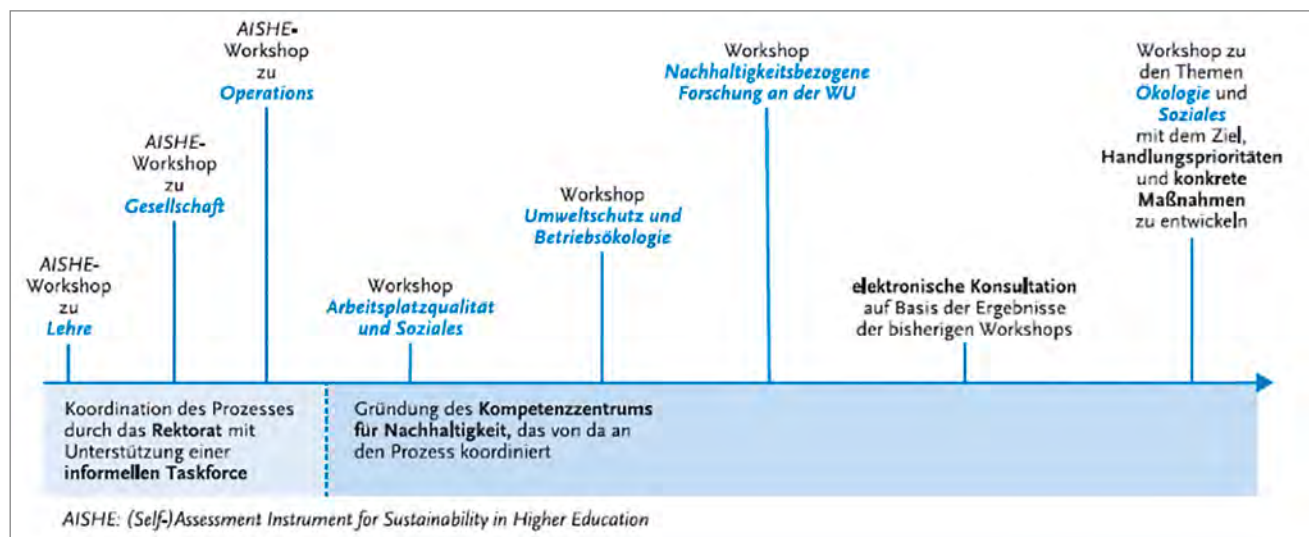
The strategic development process targets not only environmental management (green campus), but also research, teaching, knowledge transfer, and the cross-links between those fields.

It is important to include not only the ecological dimensions of sustainability in that process, but also the economic, social, and cultural aspects and their connections (Lindenthal et al. 2015).

SUSTAINABILITY STRATEGIES

The nine member universities of the Alliance all pursue different goals in their sustainability strategies depending on their initial position, focus, and strengths. Most universities agree on the following goals and measures:

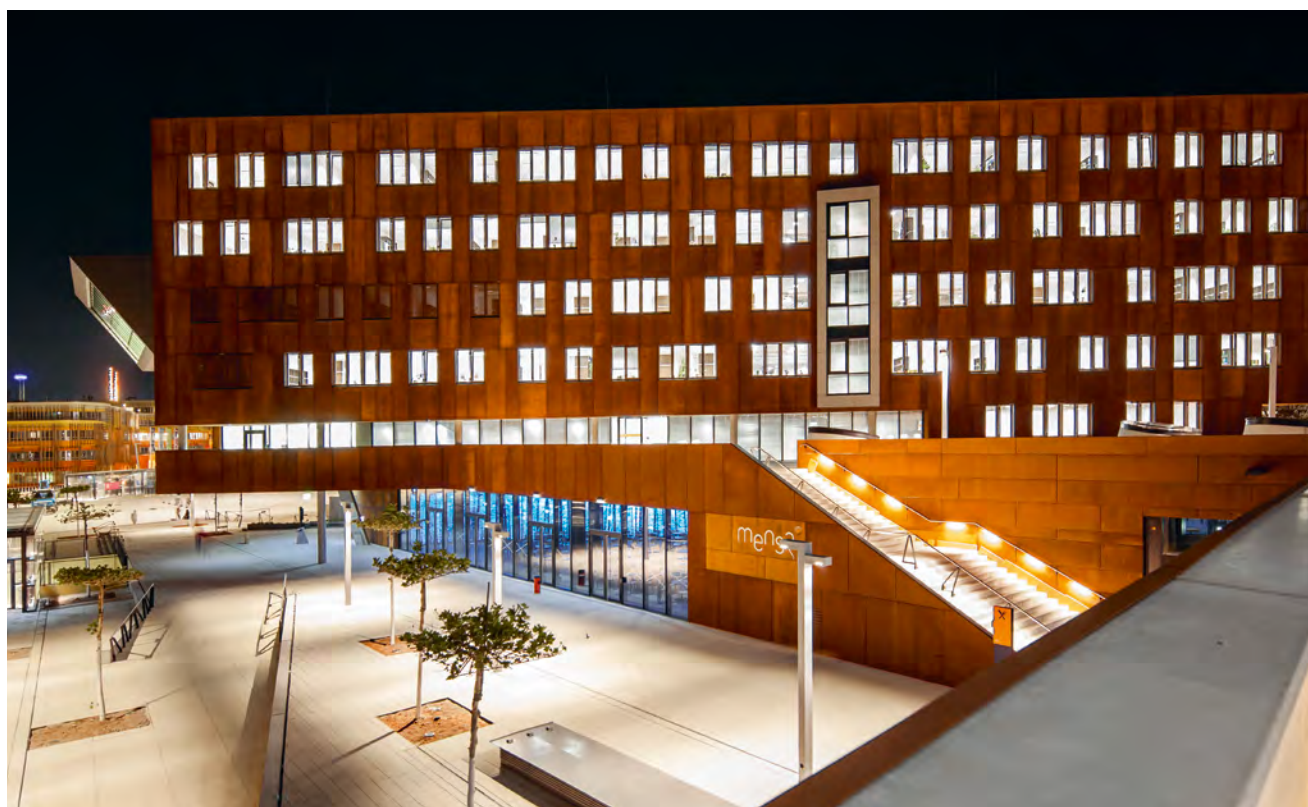
- › In **research**, these include the expansion of previous discipline-oriented research on sustainability and the environment, increased visibility of and accessibility to this research (especially online), and interdisciplinary networking (including interdisciplinary workshops on specific topics).
- › In **teaching**, they include educational and academic activities including general (voluntary) sustainability courses at master's and bachelor's levels, bundling courses relevant to sustainability and heightening their visibility, and promoting inter- and transdisciplinary teaching (e.g. networking of teachers from different areas).



- › In the area of **environmental management**, the introduction and further development of the Eco-Management and Audit Scheme (EMAS) are key objectives for five members of the Alliance. Measures for sustainable mobility, energy saving including building renovations, sustainable procurement, green office, and green meetings are strategically integrated into almost all member universities of the alliance.
- › In the area of **knowledge transfer**, sustainable communication (including environmental or sustainability reports) is a strategically important aspect for many members of the Alliance. Public events for the exchange of information with the public have high priority; on the other hand, the universities also recognize the value of communication and discussion with other institutions of higher education, creating measures for more awareness among the higher education community.

The Alliance has introduced strategic measures on two areas in order to strengthen sustainability at the new member universities:

- › All members of the Alliance have included passages in their Performance Agreements with the government providing for the further development of their sustainability strategies. The emphasis is on cooperation, networking, and knowledge transfer between members of the alliance.
- › To illustrate the opportunities resulting from a stronger structural integration of sustainability at universities, a catalog of service proposals was sent to the BMWFW (Federal Ministry for Education, Science and Research) and the Rectors' Councils of all universities in Austria, containing measures from the Handbuch für universitäre Nachhaltigkeitskonzepte (Manual for Sustainability Concepts for Universities; Lindenthal et al. 2015).



Our Environmental Management System

As a logical consequence of WU's strong commitment to environmental protection, which was already an integral part of the planning for Campus WU, introducing our environmental management system in 2016 further professionalized and expanded WU's environmental activities. This Environmental Report is intended as an overview of the current status.

STRUCTURE/ORGANIZATION OF ENVIRONMENTAL PROTECTION AT WU

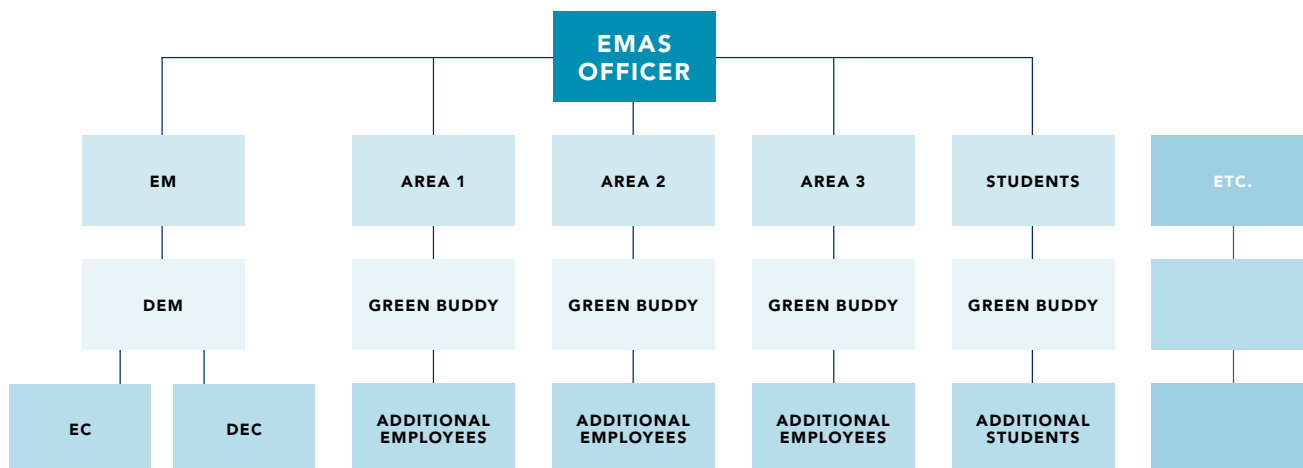
Protecting the environment concerns the entire WU community. In order to ensure that all essential activities are going forward as planned and the environmental management system is working, we have assigned specific responsibilities as defined in our structural organization plan.

Our **Environment core team** consists of the environmental manager, the deputy environmental manager, and the environmental coordinators. It is supported by the Competence Center for Sustainability Transformation and Responsibility (STaR) and other experts as needed (e.g. environmental management, fire safety ...)

Our numerous Green Buddies support the day-to-day implementation of the environmental management system (EMS) in the different departments or units. They are kept up to date on the status of the EMS through workshops held every three months, where new ideas about environmental protection are generated.

The Rector has given our environmental management system full responsibility for approving The Environmental Guidelines and the annual management review of the environmental management system itself. Further tasks are delegated to the EMAS officer appointed by the university management, who represents environmental interests in the university's top-level management.

ENVIRONMENTAL TEAM AT WU
Christoph Kecht Environmental manager T +43-1-313 36-4906 F +43-1-313 36-904906
Gregor Bauer Deputy environmental manager T +43-1-313 36-5414 F +43-1-313 36-905414
Manfred Lauterbrunner Environmental coordinator T +43-1-313 36-5009 F +43-1-313 36-905009
Christian Hütter-Schrottenbaum Deputy environmental coordinator T +43-1-313 36-4831 F +43-1-313 36-904831
Rainer Wicke Deputy environmental coordinator T +43-1-313 36-5346 F +43-1-313 36-905346
Andrea Lindenthal Deputy environmental coordinator T +43-1-313 36-4386 F +43-1-313 36-904386



Environmental management organizational structure

FUNCTION	ABBREVIATION	RESPONSIBILITIES AND TASKS
Line function		
Vice-Rector	VR/EMAS officer	The respective VR acts as the EMAS officer appointed by the university management and is responsible for the operational implementation of EMS on Campus WU, in particular the Environmental Guidelines, environmental improvement measures, and supplying resources
Department chair Unit head	DC UH	Responsible for the implementation of EMS in the departments, in day-to-day operations, and in decision-making processes
Supportive function		
Environmental manager = management contact for environmental issues Deputy environmental manager	EM	The EM is also head of Campus Management and reports directly to the Rector's Council
Head of the Competence Center for Sustainability Transformation and Responsibility (STaR)		Supports implementation at the interface with teaching and research
Environmental coordinator Deputy environmental coordinator	EC	ECs support the environmental manager in the comprehensive implementation of the Environmental Management agenda
Green Buddies	GB	Support the operational execution of EMS in their respective departments or units
Waste manager Deputy waste manager	WM	Responsible for all aspects of waste management, officially named to authorities
Fire safety officer Safety expert Safety contact Occupational health physician First-aid providers	FSO SE SC OH FA	Responsible for the operational implementation of specific areas
Environmental auditor	EA	Specially trained to conduct internal audits

ENVIRONMENTAL PROTECTION POLICY

WU's environmental performance has to be monitored and measured if we want it to keep improving. Efficient environmental monitoring records the regular input, output, and consumption data, analyzes this data using time series and key figures, and periodically evaluates the university's environmental performance to make sure objectives and targets are being met.

WU's environmental management system and environmental monitoring relies on an Excel-based content management tool used to map:

- › Recorded and evaluated input/output data and environmental indicators
- › Any and all environmental legislation that applies to WU
- › Objectives, targets, and planned improvements
- › Scheduled and completed training courses
- › Scheduled and completed internal audits
- › Deviations/corrective actions and ideas for improvement

Continual improvement

To improve WU Vienna's environmental performance, the environmental management system follows an annual schedule with defined milestones (see figure) and ends with an external review by an independent environmental verifier. External performance assessments are done on a three-year cycle. A complete review of the EMS is carried out once every three years and the updated environmental report is reviewed annually.

WU uses regular internal **environmental audits** to make sure the EMS complies with both internal and standard requirements, works effectively, and contributes to promoting active environmental protection throughout the university. Trained auditors carry out divisional and process audits and an internal system audit is completed at least once a year with the support of an independent, external agency.

An annual **management review** allows the EMAS management representative (the Rector) to assess the effectiveness of the EMS and set a course for the coming year.

EMS ANNUAL SCHEDULE – UPDATED ONCE A YEAR AS PART OF THE MANAGEMENT REVIEW												
	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
New staff training seminars	x	x	x	x	x	x	x	x	x	x	x	x
Annual EMS training	x	x										
Green Buddies meeting	x		x			x				x		
Failure assessment – CIP	x	x	x	x	x	x	x	x	x	x	x	x
Supplier evaluation	x											
Documentation audit	x	x	x									
Complete documentation	x	x	x									
Maintenance inspections	x	x	x	x	x	x	x	x	x	x	x	x
Facility tours	x			x			x			x		
Internal audit	x	x	x ²	x	x	x	x	x	x	x	x	x
Management review			x									
External audit				x								

Internal audit x²: all elements/areas of the EMS on the annual schedule
 2021: Internal area/process audits were carried out where possible during the pandemic.

Legal compliance – binding commitments

The Environmental Manager works with the Legal Affairs Office to identify any new or updated environmentally relevant guidelines that apply to WU Vienna, and with Building Maintenance to execute any administrative decisions. This results in a list of tasks that is assessed for compliance. WU's Excel-based controlling tool is used to manage the guidelines and tasks, including designating operational responsibility via the database systems operated by Building Maintenance. The most recent April 2020 audit confirmed that WU is meeting all significant compliance standards for legal and other binding environmental commitments.

Regulations and recording

Environmental documentation is a written record of everything needed to plan, implement, and improve the environmental management system (EMS). It is not a complete record of all the processes and practices at the university and only includes those that are particularly relevant to the environment. The environmental management handbook provides an overview of all the elements and processes included in the environmental management system. WU's environmental directives offer detailed guidelines on the individual chapters in the environmental management handbook. A variety of supplemental literature on specific, environmentally relevant processes and topics is also available. The environmental records show how WU is meeting all the environmental standards and effectively implementing all EMS procedures and policies (as documented in the Excel-based controlling tool).

Communication, awareness raising, information, and training

Faculty and staff can access comprehensive information on the university's environmental management web page. It provides an overview of the environmental management system including all key environmental documents, the environmental guidelines, environmental objectives, targets, and program, as well as a summary of environmental performance to date.

Notices on campus also provide information, and faculty and staff can contact the Green Buddies with any environmental questions or issues they may have. New employees undergo EMS training during the onboarding process.

Information about WU's environmental management system and environment-related activities is shared with the WU community on a variety of channels.

Interested parties can view general information on the Environmental Management website.

It provides an overview of the environmental management system and details environmental services WU has provided.



[wu.ac.at/universitaet/campus/
umweltmanagement-an-der-wu](https://www.wu.ac.at/universitaet/campus/umweltmanagement-an-der-wu)

The environmental guidelines and environmental statement with all relevant contacts is available on the services page.



[wu.ac.at/universitaet/organisation/
dienstleistungseinrichtungen/
campusmanagement/umweltmanagement](https://www.wu.ac.at/universitaet/organisation/dienstleistungseinrichtungen/campusmanagement/umweltmanagement)

WU staff can access additional environmental information specific to their workplace on the intranet, including details on the indoor climate, interesting facts about environmental impacts and ways to conserve resources, along with additional tips and a comprehensive collection of links. It also includes the minutes of past meetings.

“wu memo” provides regular updates on new environmental projects and relevant information and invitations to Green Buddies meetings. This internal blog offers information about your workplace and general and scientific news about WU and is available to all staff on the intranet. The most important information goes out to all WU staff in a compact, weekly newsletter.

Messages can be sent to all staff for larger projects (such as the mobility survey, the “Start von” project), and information can also be disseminated via notices and electronic screens.

Additionally in the summer of 2021, WU’s social media channels focused on sustainability and introduced individual environment-related projects.

Participating in the Green Buddies environmental process

The Green Buddies are a group of students and staff interested in and committed to sustainability and environmental protection on campus. The Green Buddies



Examples of a screen displays with information on the mobility survey



meetings are inclusive and open to the entire WU community. Interested parties – regardless of organizational affiliation – are encouraged to contribute knowhow and experience from their field (research, teaching, workplace, projects). This participatory exchange means ideas can be explored and developed from different perspectives. Environmental Management (Campus Management) and STaR (Competence Center for Sustainability Transformation and Responsibility) organize and supervise the Green Buddies.

A Green Buddy is a central contact person staff can ask any environmental questions they may have, and stay up-to-date via regular mailings and meetings. New staff

members learn about the environmental management system as part of the onboarding process. The environmental management system is briefly introduced at regular meetings where its basic principles are explained.

The Green Buddies successfully disseminate information about environmental issues throughout campus. They also support the operational implementation of the environmental management system in each department or division. More than 100 members of the WU community are currently involved and more than 50 people attended the two online meetings held in 2021.

 WU (Wirtschaftsuniversität Wien)  
25 August 2021 · 

Kennt ihr magdas? Bei diesem Social Business ist man überzeugt davon, dass jeder Mensch gute Arbeit leisten kann - damit eröffnet das Unternehmen Zukunftsperspektiven für Menschen, die bei vielen anderen Arbeitgeber*innen keine Chance erhalten.

Bereits seit Oktober 2020 arbeitet die WU für die tägliche Reinigung unseres neues Verwaltungsgebäudes mit magdas REINIGUNG zusammen und wir freuen uns täglich über einen sauberen Arbeitsplatz, freundliche Gesichter und noch mehr Zuk... [See more](#)

 WU (Wirtschaftsuniversität Wien)  
26 August 2021 · 

Was auf den ersten Blick aussieht wie eine klassische "Gstett" (Wienerisch für Brachland), ist in Wirklichkeit das blühende und gedeihende Urban Garden Projekt der WU, das es seit 2017 gibt. Hinter dem LC gelegen, können Studierende und Mitarbeitende der WU ihre eigenen Beete bepflanzen und nach getaner Arbeit auch die Früchte ihrer Arbeit ernten.

Ihr wollt nächstes Jahr auch gärtnern? Dann bewirbt euch beim Umweltmanagement-Team der WU (Per E-Mail an umweltmanagement@wu.a...) [See more](#)

GREEN BUDDIES PROJECT: BRING YOUR OWN BOX – FROM CONCEPT TO REALIZATION

The goal of the Bring Your Own Box (BYOB) campaign was to prevent to-go packaging waste and as such actively contribute to protecting the climate and raising awareness of waste prevention. The WU community could bring their own contained for food even before the campaign, though this was not widely known. The BYOB campaign raised awareness and strengthened an overall understanding of waste prevention.

Environmental Management designed the BYOB to draw attention to easy options for preventing daily waste and promoting waste separation. Everyone was asked to bring their own reusable food container when picking up lunch from on-campus catering. This reduced the need for single-use (mainly plastic) packing and the amount of residual waste. Participants received a stamp in a special BYOB passport for each lunch collected in a reusable container.

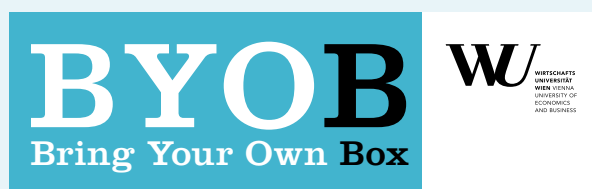
A waste analysis was conducted on campus in the run-up to the campaign. The findings and the continual improvements made to the environmental management system pointed to clear potential for waste prevention, especially for single-use products. This information was passed on to the Green Buddies, who developed it into a concrete project idea. The campaign was directed at all members of the WU community

(staff and students) who ate on campus and were interested in reducing waste. Meetings were conducted with all on-campus food providers. Then a few implementation options were tested to ensure the greatest number of participants and campus-wide implementation. All on-campus food providers participated in the campaign.

Posters, stamps and stamp passports were handed out to food providers. Word was spread via different information channels. Following the three-week campaign, the stamp passport could be redeemed and feedback was gathered.

Mailings went out to the WU community and posters were hung at on-campus food vendors and communication was particularly intensive at the Green Buddies meetings.

The BYOB campaign is scheduled to be held regularly.



Environmental Management and STaR provide information about current developments on Campus WU at the regular Green Buddies meetings and in mailings to subscribers. Green Buddies bring up and further develop feedback, ideas, and impressions in the interactive meetings that are more like workshops. Attendees can ask questions and suggest topics when registering for the workshops, and registration is not required for participation. Anyone can join the meetings, as there are no prior knowledge or other qualifications needed. You can also be a Green Buddy even if you cannot attend the meetings. If you are interested or have any questions between the meetings, please send an email to greenbuddies@wu.ac.at. Submit any questions, comments, and suggestions to the Green Buddies email as well. Environmental Management/ the STaR team will respond directly and discuss any ideas at the next meeting.

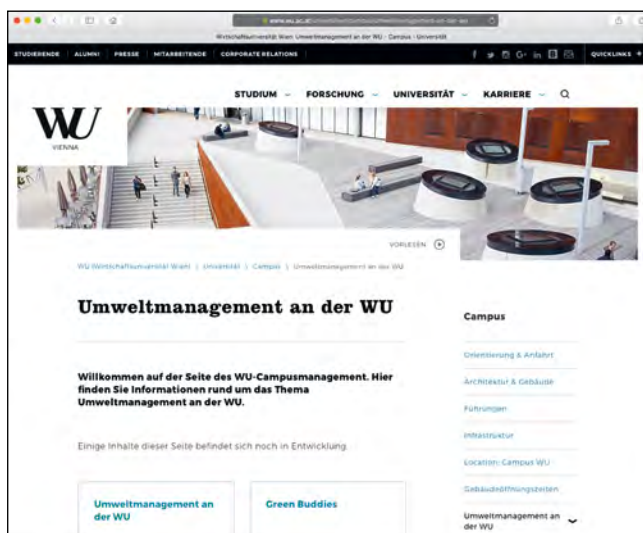
The Green Buddies are an established point of contact for any questions staff have about sustainability and the environment and serve as a platform for information and exchange on Campus WU.

Past Green Buddies' projects (selection):

- › Experience the environment with the WU Urban Garden and Nature Trail
- › Participatory waste-reduction projects: initiative to reduce packaging waste with reusable dishes (BYOB)
- › Optimize cleaning processes through feedback and suggestions – including the use of EU eco-labeled cleaning agents, garbage bag reuse, specially designed plastic bags, choosing ecological alternatives when ordering materials (e.g. office supplies)
- › Participation at events: Sustainability Day/SDG Day, Welcome Week, in-house exhibition
- › Professional exchange through bachelor's theses and course visits, for example
- › Green Buddies Community Events: Thanksgiving (2019), Premiere of WU Energy Screens (2019), Green Campus Tour (2021)



For more information, please visit our website:
wu.ac.at/universitaet/campus/umweltmanagement-an-der-wu



WU Vienna environmental website



EMAS prize goes to WU Vienna for the "Best Environmental Team"

Environmental Progress

WU Vienna is committed to continually improving our environmental performance. So we are constantly on the lookout for new, effective ways to implement our environmental objectives and measures to include in our environmental program.

WU drafts a set of annual objectives based on its environmental guidelines. Faculty and staff are also invited to send their suggestions and ideas to the environmental manager by email, who adds them to the Excel-based environmental controlling tool for further processing as part of the CIP strategy.

The environmental team drafts the new environmental objectives and the environmental program. WU's Excel-based environmental controlling tool includes an improvement module useful for managing environmental objectives and targets, concrete measures and steps, deadlines, responsibilities, and additional detailed information, as well as for recording ongoing progress. A new environmental program is finalized as part of the management review (assessment of the EMS by the Rector).

ENVIRONMENTAL PROGRAM AND PERFORMANCE											
Activity	Annual prevention/savings/gain						Economic impact		Responsibility		Status
Brief description of action planned (type and objective/target)	What	Basis	Unit	Total	%	Additional benefits	Annual savings in EUR	Investment in EUR	Who	When	completed/open/in progress
UZ62 certification of WU Event Management	Environmental communication	n.q.	n.q.	n.q.	100	Austrian Environmental Label 62 Certification of WU Event Management and future certification of selected WU events such as Summer Celebration	n.q.	5,000	UM/UK/MuK	4th quarter 2021	completed
Reduction CO ₂ emissions from business trips	CO ₂	n.q.	n.q.	n.q.	n.q.	Collect data and draft a business trip policy that targets CO ₂ emission reduction	n.q.	n.q.	Rect.	4th quarter 2021	in progress
Offset all the unavoidable CO ₂ emissions from energy consumption in 2021	CO ₂	620	tons		100	Promote environmental projects with additional positive social impact.	none		M/EC	1st/2nd quarter 2022	in progress

ENVIRONMENTAL PROGRAM AND PERFORMANCE

Activity	Annual prevention/savings/gain						Economic impact		Responsibility		Status	
	Brief description of action planned (type and objective/target)	What	Basis	Unit	Total	%	Additional benefits	Annual savings in EUR	Investment in EUR	Who		When
Offset CO ₂ from business trips	CO ₂	n.q.	tons				Budget provision for offsetting emissions from business travel	none		EM/EC	Starting 2022	in progress
"Mobile work"	Emissions, energy	n.q.	CO ₂	n.q.	n.q.		Staff can work from home for up to two days a week under certain conditions	n.q.	0	VR personnel	Starting 2021	in progress
Feasibility study on installing photovoltaic units on the roofs of Campus WU	Energy production						See feasibility study for detailed information		10,000	EM/EC	2021	completed
Laptops as work computers	Emissions, energy	200,000	kWh	45,000	22.5		Switch from desktops to more energy efficient laptops as workspace computers, classical desktop PCs will not be issued anymore, reduction of desktops by 500 units	n.q.	n.q.	IT	ending 2023	in progress
Mobility data survey	Emissions	n.q.	CO ₂	n.q.	n.q.		Survey of staff and students as part of a master's thesis	none	2,000	UT/ Rector's Office	1st quarter/ 2022	completed
Install a photovoltaic system on the roofs of WU – subject to technical feasibility and available budgetary funds	Energy	15,000,000	kWh	430,000	3		In-house production of renewable energy		400,000	EMAS officer/ EM/EC	2023/ 2024	open



Environmental Aspects – Risks and Opportunities

In an environmental evaluation, WU assessed its activities and services along with their significant direct and indirect environmental impacts.

WU Vienna's central mission is teaching and research. The university depends on a range of support activities in achieving this mission, and their environmental relevance was also evaluated.

The assessment was based on the qualitative and quantitative information available on the individual environmental aspects that are significant for WU Vienna.

Assessment criteria included:

- › Amount (totals, key figures), extent, frequency
- › Hazards: potential environmental hazards (for the entire ecological lifecycle)
- › Legal guidelines: requirements from existing environmental laws, possible future changes
- › Social relevance: target group's opinion, pioneering a sustainable society

WU uses the environmental index from this evaluation process to draft an environmental program and assess the need for guidelines. The program is reassessed once a year.

Evaluating relevant environmental aspects includes assessing risks and opportunities. WU identified potential risks and added possible opportunities to the improvement program. Potential risks include things like handling hazardous waste improperly, fire hazards on campus, and the release of refrigerants from refrigerating plants/air conditioning systems. WU conducts regular internal and external testing to systematically identify any failures or accidents and take immediate corrective action as needed.

LIST OF ENVIRONMENTAL ASPECTS (most recent evaluation: December 2021)

Updated once a year as part of the management review

Areas/activities/facilities	Direct/indirect environmental aspects	Resource consumption	Energy consumption	Water consumption	Waste	Emissions air	Emissions water	Emissions soil	Noise	Opportunities in teaching and research	Risk of accidents	Environmental law	Overall evaluation
Teaching and research	D/ID	2	1	1	2	1	1	1	1	yes	1	1	1
Building infrastructure	D/ID	2	2	2	2	1	1	1	1	yes	3	1	2
Outdoor areas	D	1	1	1	1	1	1	1	1	yes	1	1	1
Overall evaluation		2	1	1	2	1	1	1	1				

Number of areas/activities/facilities evaluated: 3

1: Low environmental relevance – No need for direct action, though action should be included in continual improvement plans.

2: Medium environmental relevance – Improvements should be taken in the medium-term, and trained staff or the environmental team should carry out regular inspections.

3: High environmental relevance – Immediate action needed and the facilities/processes should be restructured. Action should be included in the environmental program. Facilities should be regularly inspected to assess risk of accidents and staff trained.

Index of direct and indirect environmental aspects (environmental index).

BUILDINGS & LOCATION

The new campus

WU moved to the new campus in Vienna's second district right next to the Prater park in the fall of 2013. This modern campus took approx. four years to build on the plot between the Messe Wien Exhibition Congress Center and the Prater and provides around 100,000 square meters of space. A six-building complex is centered around the Library & Learning Center. Buildings occupy around 45,000 square meters while the remaining 55,000 square meters are publically accessible open space.

Transportation

Campus WU is easy to reach by public transport. The **U2 subway** line runs from the city center to WU. Just one subway stop away, Praterstern subway station offers a network of regional train connections ideal for commuters.

On-street parking around the campus is very limited. There are only 410 paid parking spaces on campus for faculty, staff, and short-term visitors, which encourages the WU community to find environmentally friendly alternatives.

The new Campus WU – based on the principles of economic, ecological, and social sustainability

WU made sure to live up to its responsibility as a public institution and included economic, ecological, and social sustainability aspects when planning its new campus. WU has not only integrated these principles into its energy and quality management, it is also always looking for opportunities for improvement.

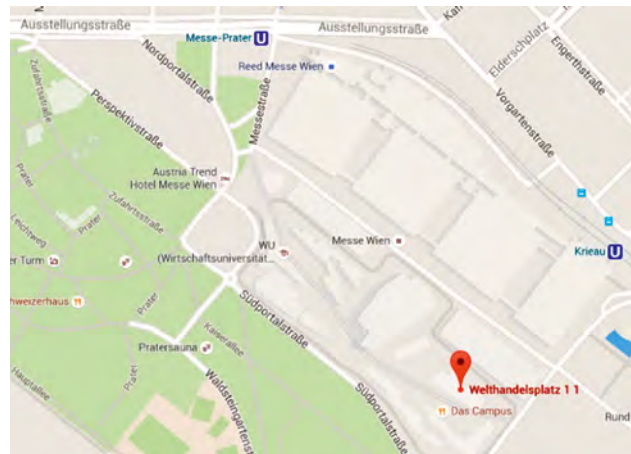
The architecture of the new Campus WU was designed to create a productive atmosphere for teaching and research and be used by thousands of students, faculty, and staff.

The architectural concept included daylight in almost every room, which saves electricity while also creating a more productive learning atmosphere. Lecture halls are equipped with modern teaching technology to facilitate learning.

The new campus was also shaped by the WU department structure. Related disciplines are located close to one other and easily accessible in the five department buildings, making university life easier for students, faculty, and staff.



Campus WU Vienna plan with individual units



Public transport connections

While the buildings may look quite different, they are all based on the same overall technical concept: the building infrastructure is standardized in terms of construction, energy supply, ventilation, and sanitary facilities. The entire campus was built in accordance with “Green Building” principles, so much of the required energy is obtained from geothermal energy using groundwater, for example.

“Blue Building” certificate for Campus WU

As part of BlueBuilt 2015, the buildings on Campus WU were certified as “Blue Buildings.”

A “Blue Building” takes the “Green Building” concept a step further. Unlike a green building, where the emphasis is mainly on energy efficiency, a blue building focuses on sustainability throughout the entire lifecycle of the building. The Austrian Society for Sustainable Real-Estate Management (ÖGNI) awards gold, silver, and bronze blue building certifications. ÖGNI evaluates buildings based on transparent and standardized criteria, taking into account ecological and economic aspects, socio-cultural

and functional quality, and technical performance. Efficient use of resources and energy is important, as is accounting for economic and human needs. Users are the central focus of the blue building philosophy, and they should feel comfortable and at home in the space.

Five silver, one gold

Every one of the six buildings on the WU campus was individually assessed for economic quality (e.g. minimization of lifecycle costs, third-party usability), ecological quality (greenhouse potential, sustainable resource use, drinking water consumption, wastewater production, etc.), socio-cultural and functional quality (incl. room comfort in winter/summer, acoustic comfort, accessibility), site quality (e.g. public transport connections, restaurants, shops, open space), technical quality (such as fire safety, noise protection, easy to clean), and process quality in planning (incl. attention to sustainability aspects, low noise, dust, construction site waste). Then all the buildings on campus were awarded a certification. The D1 department building received gold and all the others took silver.



WU (Vienna University of Economics and Business) is located in Vienna's 2nd district, Welthandelsplatz 1 and 2.

INPUT AND OUTPUT

The input-output analysis is a record of the quantified material and energy flow into (input) and out of (output) WU generated using the Excel-based controlling tool. The input/output data is updated once a year.

INPUT 2021	
Durable and non-durable goods	n.q.
Building cleaning supplies	3,997 kg
Office supplies	n.q.
Other durable and non-durable goods	40,653 kg
Copier paper	19,653 kg
De-icing agents/salt	9,000 kg
Grit	12,000 kg
Garbage bags	5,616 kg
Water	46,667 m³
City water	15,328 m ³
Well water	31,339 m ³
Energy	16,097,467 kWh
District heat (heat and hot water)	1,833,234 kWh
Electricity	14,202,691 kWh
Fuels:	
Diesel for transport	11,414 kWh
Diesel for emergency generators	50,128 kWh

Some of the data was taken from the SAP system, other from invoices. Currently, SAP only provides the monetary value (not amount) for some items (such as office supplies).

OUTPUT 2021	
Services	
Scheduled classes, lectures, and events	2,595 units
Bachelor's theses	2,116 units
Master's theses	1,119 units
Dissertations	68 units
Journal articles (papers)	739 units
Additional publications (conference papers)	510 units
Waste	239,402 kg
Non-hazardous waste – recyclable materials	100,876 kg
Non-hazardous waste (for disposal)	137,890 kg
Other hazardous waste	636 kg
Used oils	0 kg
Recyclable materials	100,876 kg
Cardboard and paper	79,844 kg
Glass	6,852 kg
Packaging plastic	5,913 kg
Scrap metal	2,492 kg
Electrical devices with no hazardous elements	4,065 kg
Used air filters (not contaminated with oil)	1,710 kg

OUTPUT 2021	
Power consumption emissions released into atmosphere	
CO ₂	619 t
SO ₂	3 kg
NO _x	10 kg
VOC	2 kg
Dust	2 kg

ENVIRONMENTAL KEY DATA

WU's environmental performance is based on operational and ecological key data extracted from the input-output analysis. This is how the university can regularly monitor improvements in environmental performance and identify potential areas for improvement. Benchmarking

with other universities can be helpful, but it is difficult, since the data often does not show what facilities and processes were included and used to calculate the key data.

WU KEY ENVIRONMENTAL DATA			
Durable and non-durable goods	Data quality	Total	Relative
Faculty and staff	very good	2,604	
Students	very good	21,271	
Main usable area (MUA)	very good	78,910 m ²	
Energy			
Energy consumption – hydrodynamic power EEA	very good	14,203 MWh	5.5 MWh/EE 180.0 kWh/m ²
Heat consumption – Vienna district heating	very good	1,833 MWh	0.7 MWh/EE 23 kWh/m ²
Water			
Water consumption (73% well water)	very good	46,667 m ³	75.1 l/EE/d
Material and product consumption			
Total paper consumption		19,653 kg	n.q.
(Writing) copy paper consumption	very good	17,376,686 A4 sheets	6,673 sheets/EE
Percentage recycled paper			< 5%
Waste			
Total waste (minus biogenic waste)	good	239,409 kg	92 kg/EE
Used paper (incl. cardboard)	good	79,844 kg	31 kg/EE
Recycling percentage (recovery rate)			40%
Travel			
Business trips by car		n.q. km	n.q. km/EE
Business trips by train/airplane		n.q.	n.q.
CO₂ emissions (total)			
CO ₂ emissions (operations, vehicle fleet excl. business trips)	average	619 t	0.2 t/EE

Notes:

- › Recycling percentage based on the percentage of waste materials in total waste.
- › CO₂ emissions include on-campus energy consumption and vehicle fleet operation, but not business trips at this time.
- › Data quality: very good = accurately compiled, traceable data for electricity, heat (district heat), fuel consumption, copier paper and hazardous waste. Data quality: good = traceable data, sometimes projected e.g. waste based on dumpster volumes. Data quality: average = Data estimated in part

ENERGY

The consumption values shown were taken from energy provider invoices where available or based on meter readings from the energy monitoring system.

Energy source allocation 2021

The chart divides the energy purchased in 2021 into electricity, district heat, and fuels. The energy sources are converted on campus into heat (high and low temperature) and cooling energy (high and low temperature) for end use as building heat, cooling/air conditioning, and hot water. Total purchased energy consumption is the sum of all the electricity, district heating, and fuel purchased.

Fuel consumption is based on the fuel used in regular testing of the DUPS diesel aggregates and sprinkler systems required by law. Diesel is delivered twice a year to fuel WU's vehicle fleet.

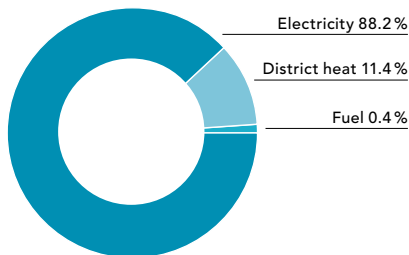
Electricity consumption

In 2021, the following major user groups consumed a total of 14.5 million kilowatt hours of electricity:

ENERGY SOURCE BY USER GROUP	KWH/A 2019	KWH/A 2020	KWH/A 2021
Energy	17,199,340	15,324,103	16,097,467
Electricity	15,510,698	13,468,654	14,202,691
Diesel (emergency generators)	50,128	50,128	50,128
District heat	1,627,833	1,792,905	1,833,234
Transport	10,681	12,416	11,414
Diesel	10,681	12,416	11,414
Total energy	17,210,021	15,336,519	16,108,881

Total energy consumption at WU Vienna (incl. D5 as of 2018) energy, heat energy, transport (diesel fuel)

Energy source allocation at WU

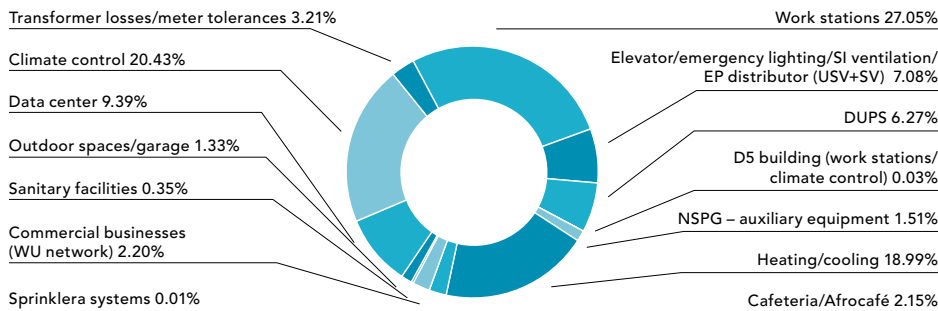


Major electricity consumers

The work station/study area user group consumes the most electricity, followed by the heating/cooling and climate control user groups (generated by an electric geothermal heat pump using ground water).

USER GROUP	KW/H 2020	% 2020	KW/H 2021	% 2021 2021
Work stations	3,546,891.3	26.33%	3,704,721.59	27.05%
Climate control	2,590,339.1	19.23%	2,798,574.57	20.43%
Heating/cooling	2,338,303.2	17.36%	2,600,806.64	18.99%
Data center	1,302,449.9	9.67%	1,286,760.86	9.39%
Elevators/emergency lighting/ SI ventilation/EP distributor (UPS+EP)	1,025,977.8	7.62%	969,548.60	7.08%
DUPS	789,645.8	5.86%	859,509.11	6.27%
Transformer losses/meter tolerances	462,632.3	3.43%	439,376.86	3.21%
Cafeteria/Afrocafe	280,549.8	2.08%	294,433.65	2.15%
NSPG – auxiliary equipment	225,778.1	1.68%	206,905.73	1.51%
Outdoor spaces/garage	182,572.8	1.36%	182,687.50	1.33%
Food service – commercial businesses (WU network)	302,038.7	2.24%	301,420.18	2.20%
Sanitary facilities	42,231.4	0.31%	48,180.53	0.35%
Sprinkler systems	589.8	0.01%	699.74	0.01%
D5 building (work stations/climate control)	378,654.0	2.82%	3,769.40	0.03%
Total	13,468,654.0	100.00%	13,697,394.96	100.00%

Major electricity users 2021



Heating – heat consumption

Building heating/radiators consume the largest proportion of overall heat energy. This includes general building heating on Campus WU except for the heating used by renters.

USER GROUP	KW/H 2020	% 2020	KW/H 2021	% 2021
LT heat building heating/radiators	3,467,020.60	66.63%	4,315,041.58	71.10%
HT + LT heat business enterprises heating/ door air curtain/hot water	359,281.10	6.90%	399,310.25	6.58%
HT heat media trace heating garage/ thermal leakage	223,306.40	4.29%	238,099.09	3.92%
HT heat building heating/ hot water EA	254,732.70	4.90%	283,205.15	4.67%
HT heat door air curtain	235,425.80	4.52%	209,919.71	3.46%
HT + LT heat cafeteria	177,268.70	3.41%	117,585.00	1.94%
LT heat thermal leakage and measuring tolerances ¹	228,412.40	4.39%	178,780.99	2.95%
D5 building HT heat	258,117.40	4.96%	326,771.22	5.38%
Totals	5,203,565.10	100.00%	6,068,712.99	100.00%
Percentage district heat	1,792,904.50	34.46%	1,833,234.00	30.21%
Percentage heat generated on campus	3,410,660.60	65.54%	4,235,478.99	69.79%

¹ Estimated amount since no metering point was available.

Major heat consumers at WU

LT heat, building heating/radiators 71.10%

HT + NT heat enterprises heating/
door air curtain/hot water 6.58%

HT heat media trace heating garage/thermal leakage 3.92%

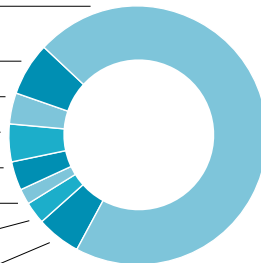
HT heat building heating/hot water EA 4.67%

HT heat door air curtain 3.46%

HT + LT heat cafeteria 1.94%

LT heat conduction losses/measuring tolerances¹ 2.95%

D5 building HT heat 5.38%



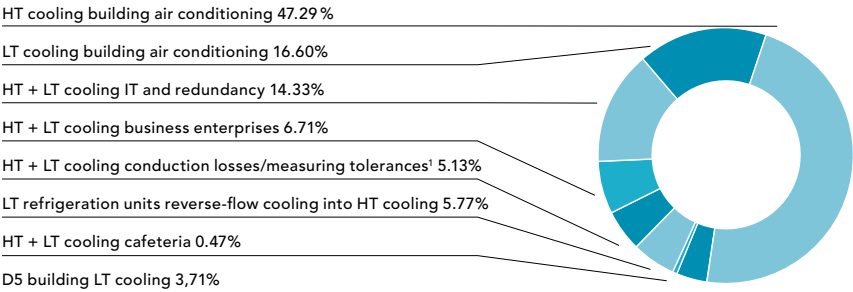
Cooling

Building air conditioning consumes the largest amount of overall cooling energy. The group of other users including renters is relatively large, so it might make sense to break it down into distinct user groups in future.

USER GROUP	KW/H 2020	% 2020	KW/H 2021	% 2021
HT cooling building air conditioning	2,429,654.6	48.37%	2,438,744.6	47.29%
LT cooling building air conditioning	762,745.3	15.19%	855,928.2	16.60%
HT + LT cooling IT and redundancy	784,510.9	15.62%	738,865.9	14.33%
HT + LT cooling business enterprises	387,335.3	7.71%	346,213.4	6.71%
HT + LT cooling conduction losses/ measuring tolerances ¹	406,601.2	8.09%	264,506.5	5.13%
LT refrigeration units reverse-flow cooling	47,370.0	0.94%	297,783.0	5.77%
HT + LT cooling cafeteria	12,895.0	0.26%	24,128.0	0.47%
D5 building LT cooling energy	191,900.0	3.82%	191,200.0	3.71%
Totals	5,023,012.3	100.00%	5,157,369.6	100.00%

¹ Estimated amount since no metering point was available.

Major cooling energy consumers at WU



The Sankey diagram below shows energy flow on Campus WU for the three energy sources purchased for use in buildings, heat pumps, DUPS, and sprinklers.

The low temperature and high temperature networks deliver heat. The high temperature network provides buildings (and the restaurants and business enterprises that rent space) with district heating (HT). The low temperature network provides buildings (and the restaurants and businesses enterprises that rent space) with a combination of heat generated on campus and district heating (LH).

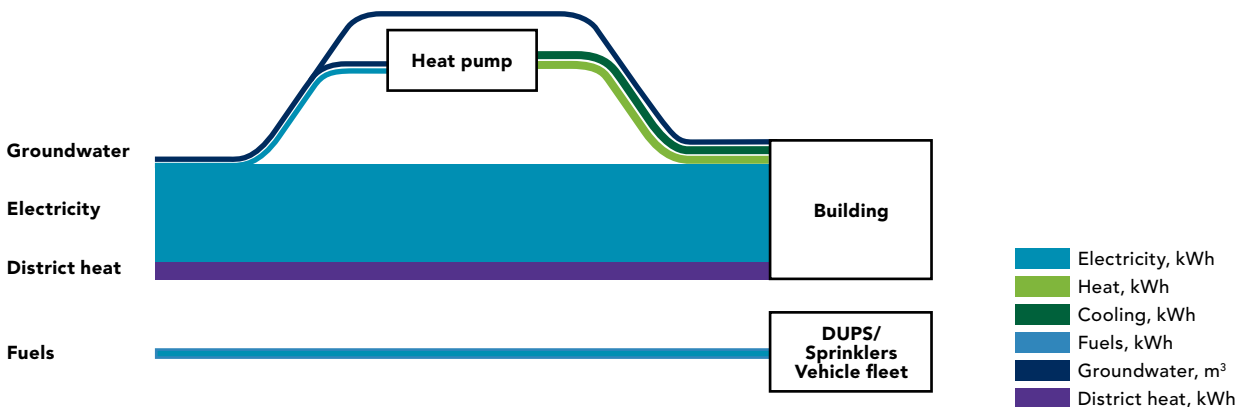
The heating and cooling units use groundwater and electricity to generate heat that is fed into the low temperature network along with district heating (LT). Waste heat from IT systems is also fed into this network through the heat pumps.

The heating/cooling units also provide cooling. Air conditioning is generated through geothermal exchange using groundwater.

Approximately 3.4 times more electricity goes into generating heat and cooling energy than the amount of heat and cooling consumed on campus.

In the near future, improved measurement data logging (additional meters) will allow WU to monitor energy by origin and create savings potential.

Sankey diagram of energy flow on Campus WU



Energy flow heating/cooling machines Campus WU



WATER

WU gets its water from the public waterworks and an on-campus well, which the university was granted legal permission to use.

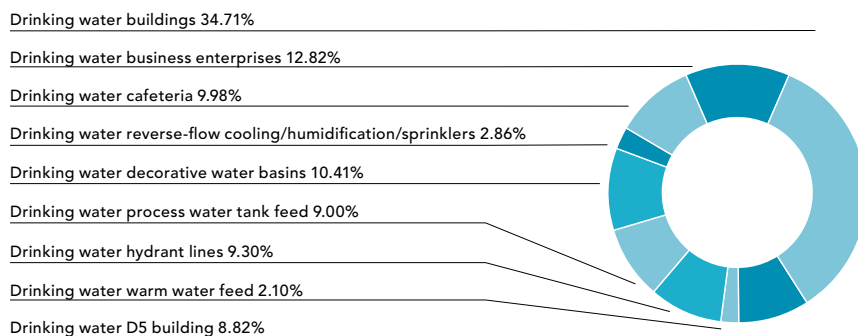
Of the around 46.6 million liters of water used in 2021, approx. 30 million came from the well.

Drinking water consumption can be broken down into four categories: building drinking water, which is the sum of general drinking water consumption in all the buildings, hot water feeding, reverse-flow cooling, and the cafeteria.

WATER SOURCES	L/A 2019	L/A 2020	L/A 2021
City water	22,591,000	14,509,000	15,328,000
Well water	40,002,000	30,102,030	31,339,000
Total	62,593,000	44,611,030	46,667,000

DRINKING WATER	2020 m ³	2020 %	2021 m ³	2021 %
Drinking water buildings	5,565.5	38.36%	5,155.5	34.71%
Drinking water business enterprises	2,694.6	18.57%	1,904.5	12.82%
Drinking water cafeteria	1,120.8	7.72%	1,482.9	9.98%
Drinking water reverse-flow cooling/humidification/sprinklers	282.3	1.95%	425.2	2.86%
Drinking water decorative water basins	1,067.6	7.36%	1,545.7	10.41%
Drinking water process water tank feed	845.5	5.83%	1,336.9	9.00%
Drinking water hydrant lines	1,520.8	10.48%	1,381.6	9.30%
Drinking water hot water feed	229.9	1.58%	311.3	2.10%
Drinking water D5 building	1,182.0	8.15%	1,310.0	8.82%
Total	14,509.0	100.00%	1,4853.6	100.00%

Major drinking water users



Similar to drinking water, process water use can be broken down into building process water, which is the sum of general process water consumption in all the buildings, irrigation of outdoor areas and process water used in the cafeteria. A percentage of process water and drinking water fed into the water system generates wastewater fees. A significant amount of water is not fed into the wastewater system (irrigation, technical water, etc.). This process water is metered separately and generates no fees. Using more well water could provide savings in the future.

EVENTS AND GREEN EVENTS

The entire Campus WU was built in accordance with the "Green Building" concept. EMAS certification in many areas offers optimal conditions for environmentally friendly events. Check the Event Management website or directly request information and assistance.

In brief:

- › Assistance: MAKE IT GREEN – planning assistance for environmentally friendly events
- › Assessment form when booking an event ("Is This a Green Event")
- › Advising
- › Certification event 17.11.2021
- › Regularly mentioned at the Green Buddies meetings
- › Training offered via personnel development

PROCESS WATER	2020 m ³	2020 %	2021 m ³	2021 %
Process water buildings	10,929.30	36%	8,644.51	28%
Process water irrigation	13,423.89	45%	15,481.37	49%
Measurement error process water meters	4,908.31	16%	6,693.29	21%
Process water business enterprises	820.30	3%	493.11	2%
Process water cafeteria	20.70	0%	26.65	0%
Total	30,102.50	100%	31,338.93	100%

Major process water users

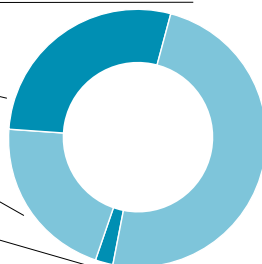
Process water irrigation 49%

Process water building 28%

Measurement error process water meters 21%

Process water business enterprises 2%

Process water cafeteria 0%



MATERIAL AND PRODUCT CONSUMPTION

Ecological criteria are included in the technical requirements for larger purchases and bids for tender (such as energy consumption minimization, reparability, replacement part guarantee). WU considers all the ecological criteria in the purchasing process.

Office products

The individual departments are responsible for purchasing office products for daily use and are encouraged to take ecological criteria into account.

Some awareness-raising approaches:

- › Internal catalogue: in-house page for sustainable products with a wide selection of over 200 articles
- › Advising
- › Regular information at Green Buddies meetings

The reuse of office materials is both encouraged and supported. Environmental Management picks up surplus binders and folders and passes them on to anyone who needs them.

Office equipment

WU Vienna considers ecological criteria when soliciting bids for office equipment and preferentially selects manufacturers who are clearly and actively dedicated to environmental protection.

Cleaning products

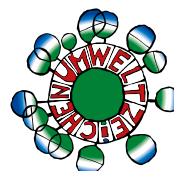
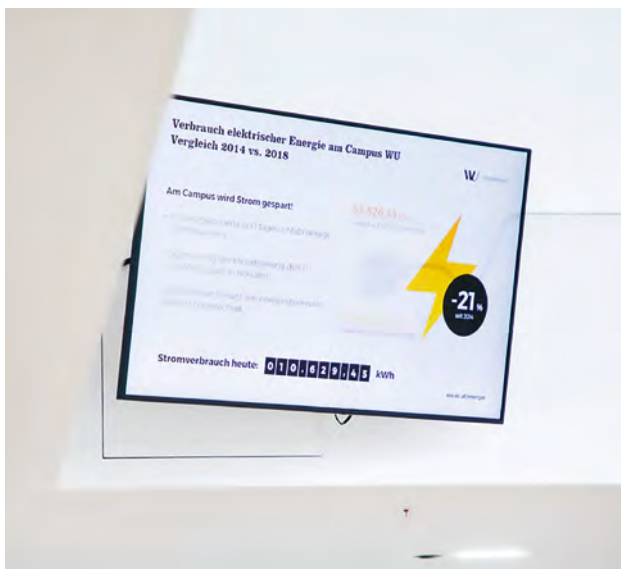
The external cleaning services that keep the buildings on Campus WU clean use certified environmental management systems. All the ingredients in any cleaning product used must be declared and the Environment Manager has to approve any product changes. In 2018, WU switched to using only products with the Austrian Environmental Seal/EU ECO Label/Environmental Seal. When ordering a product for the first time, buyers request all the safety data sheets and product descriptions, which are kept on hand where the products are used.

Construction – Renovation

Sometimes our infrastructure can use a lick of fresh paint. In 2018, WU switched to using only wall paints with the Austrian Environmental Seal.

WU ENERGY SCREEN

The WU Energy Screen in the foyer of the TC building displays recourse consumption data in campus buildings in real time. The screen shows the daily electricity, water, and heat consumption per building, along with average consumption over the past 12 months.



WASTE

In 2021, WU Vienna generated around 239 tons of waste. Around 40% of this was secondary materials that can be recycled: used paper, glass, metals, and plastics. Paper accounts for around one-third of all waste. A 2017 doctoral dissertation analyzed waste on campus and provided more specific data that was used to more accurately calculate how many recycling containers were needed at various locations.



WU Vienna is currently building a comprehensive integrated waste management system to ensure the proper collection and disposal of waste. Since the move to the new campus, recycling containers have been set up successively throughout the campus as needed to improve waste sorting.

An external service provider empties containers in indoor areas and transports the waste to the central containers.



Campus WU support for a Vienna-wide reusable coffee cup system for coffee to go. Goal: reduce non-recyclable waste

Abfall richtig trennen
Separate waste correctly

WU WIRTSCHAFTS UNIVERSITÄT WIEN VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS

<p>RESTMÜLL OTHER WASTE</p> <p><small>kunststoffbeschichteter Papier-Kaffeebecher, Taschentücher, wasserundichte Verpackungen, Trinkgläser, Essensreste, Kugelschreiber, ... plastic-coated disposable coffee cups, tissues, sealed packaging materials, ball point pens, drinking glasses, food scraps, ...</small></p>	<p>PAPIER PAPER</p> <p><small>Kartonagen, Kopierpapier, Papiertragetaschen, Zeitungen, Zeitschriften, Werbeprospekte (ohne Kunststoffhülle), ... copier paper, paper bags, newspapers, newsprint, notebooks (without plastic covers), ...</small></p>	<p>KUNSTSTOFF PLASTICS</p> <p><small>div. Kunststoffverpackungen, rezentrierter Kunststoffbecher, Kunststoffflaschen (Einzweg), Tragetaschen (Kunststoff), ... various plastic packaging materials, empty plastic containers, plastic bottles (disposables), plastic shopping bags, ...</small></p>
<p>METALL ALUMINIUM</p> <p><small>Aludosen, Aluflak, Getränkedosen, Konservendosen, Metallverpackungen, ... aluminum cans, aluminum foil, beverage cans, tin cans, metal packaging materials, ...</small></p>	<p>BUNTGLAS STAINED GLASS</p> <p><small>farbige Glasflaschen, farbige Konservengläser, farbige Medikamentengläser, farbige Kosmetikverpackungen, ... colored glass bottles, colored glass jars, colored medicine bottles, colored perfume bottles, ...</small></p>	<p>WEISSGLAS WHITE GLASS</p> <p><small>ungefärbte Glasflaschen, ungefärbte Konservengläser, ungefärbte Kosmetikverpackung, ... colorless glass bottles, colorless glass jars, colorless cosmetic jars or packages, ...</small></p>

Mehr Infos/more information: short.wu.ac.at/abfall

Waste sorting system – goal: reduce non-recyclable waste

BYOB

Bring Your Own Box

Eine Initiative des WU-Umwelteams

WU WIRTSCHAFTS UNIVERSITÄT WIEN VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS

REDUCE WASTE

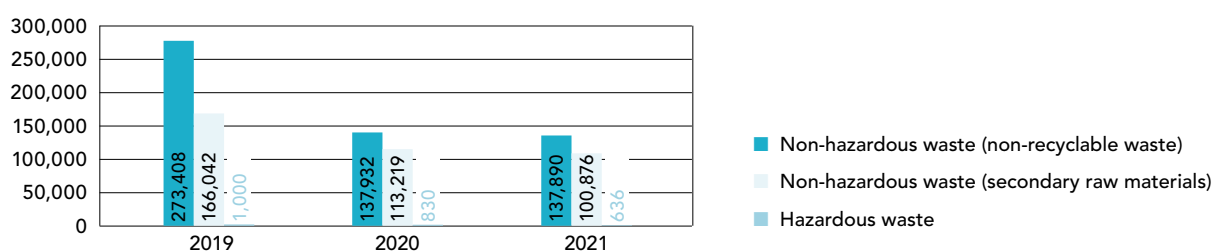
PROTECT YOUR ENVIRONMENT

BYOB AND SUPPORT AN ECOLOGICAL PROJECT

BYOB campaign – goal: reduce non-recyclable waste

ABFALL					
Waste categories defined in Önorm S2100	Code	Amount (kg/a) 2020	Change %	Amount (kg/a) 2021	Change %
Non-hazardous waste (non-recyclable waste)		137,932	-49.60	137,890	0.00
Commercial waste similar to household waste	91101	113,272	-57.20	106,430	-6.00
Bulky waste	91401	8,780	38.90	3,880	-55.80
Construction waste	91206	8,800	282.60	14,960	70.00
Street cleaning waste	91501	7,080	-	12,620	78.20
Non-hazardous waste (secondary raw materials)		113,219	-31.80	100,876	-10.90
Used paper	18718	73,022	-30.80	68,122	-6.70
Used paper (files shredded)	18718	16,817	16.10	11,522	-31.50
Coated paper and cardboard	18702	130	-	200	53.80
Biogenic waste	91104	-	-	-	-
Clear glass	31468	3,123	-25.10	1,211	-61.20
Green and brown glass	31469	3,984	-68.60	5,641	41.60
Plastics	57118	8,738	-46.40	5,913	-32.30
Metal	35105	2,470	-39.40	2,492	0.90
Electrical appliances with no hazardous components	35202	699	-80.50	-	-100.00
Used electronic appliances	35231	2,256	7.90	4,065	80.20
Used air filters (no oil contamination)	54933	1,980	-36.50	1,710	-13.60
Hazardous waste		830	-17.00	636	-23.40
Batteries unsorted	35338	79	-28.20	36	-54.40
Computer monitors	35212	302	-41.00	337	11.60
Lead accumulators	35322	-	-	-	-
Used oil and air filters	54928	-	-	-	-
Clinic Box 60L	97101	8	-60.00	13	62.50
Electric discharge lamps	35339	88	-75.40	162	84.10
Electrical appliances, non EAG-VO	35201	13	-	-	-
Refrigeration and air conditioning units with HFCs, HFC refrigerants	35205	-	-	-	-
Paint and lacquer	55502	340	-	88	-74.10
Mixed solvents with no halogenated, organic components, paint and lacquer thinner, antifreeze	55370	-	-	-	-
Used oils		-	-	-	-
Used oils	54102	-	-	-	-
Total waste		251,981	-42.80	239,402	-5.00

Progression of waste production from 2019–2021 (amount (kg/a))



EMISSIONS AIR

The two emergency generators on campus emit carbon directly into the atmosphere. All equipment is regularly tested. Emergency generator use has dropped since 2016 thanks to technical improvements and they now account for only around 2.5% of total CO₂ emissions into the air. Roughly 50% of the heat energy needed for the high temperature networks is covered by Vienna's district heating network. Electricity comes from the public power grid. Taking electricity and heat from district heating and the power grid indirectly generates emissions from the district heating and power stations.

WU uses the MA22 (Vienna Environmental Protection Department) emission factors calculated by Klip Wien 1995 and UBA to determine the university's indirect emissions. Vehicular traffic generated by WU is an additional source of carbon emissions. In 2021, WU released a total of around 619 tons of CO₂ into the atmosphere.

WU is climate neutral

WU became the first climate neutral university in Austria in 2019. It supports climate conservation projects at home and abroad to offset the CO₂ unavoidably generated from day-to-day operations.

INDIRECT CO ₂ EMISSIONS BY ORIGIN (ENERGY SOURCE)						
Emissions air	Energy source consumed	Absolute quantity	Unit	Substance released	kg/g/liter/kWh/km	Absolute total emissions in kg
	Diesel – emergency power	5,200	liter	CO ₂	3.1000	16,120
	Diesel – vehicle fleet	1,184	liter	CO ₂	3.1000	3,670
CO ₂				Total CO ₂		19,790
	Electricity – Hydro-electric power EEA	14,202,691	kWh	CO ₂	0.0160	227,243
	Heat energy Vienna district heat	1,833,234	kWh	CO ₂	0.2030	372,147
CO ₂				Total CO ₂		619,180
	Airplane travel	n.q.	km	CO ₂	0.1950	
	Train travel	n.q.	km	CO ₂	0.0100	
CO ₂				Total CO ₂		
	Diesel – vehicle fleet			NO _x	0.0082	10
	Diesel – vehicle fleet			SO ₂	0.0025	3
	Diesel – vehicle fleet			VOC	0.0016	2
	Diesel – vehicle fleet			Dust	0.0013	2

Sources: CO₂ emission factors taken from MA22 (Vienna Environmental Protection Department) and are based on Klip Wien 1995 and UBA district heat calculations: DH mix, Source: District Heat Vienna (except for CO₂) everything else except for CO₂: UBA www5.umweltbundesamt.at/emas/co2mon/co2mon.htm

Projects in Austria and abroad

- › Protect the environment and climate
- › Improve the energy supply
- › Improve health and education
- › Involve local people and create jobs
- › Independent verification by organizations such as Gold Standard and Verified Carbon Standard (VCS)
- › Show transparently how projects protect the climate
- › Provide a well-founded evaluation of climate protection projects based on many years of experience in the carbon market
- › Demonstrate exceptional environmental integrity and socio-economic added value

To achieve carbon neutrality, WU is working with an Austrian initiative for voluntary climate protection activities. In our Environmental Guidelines, we pledge to protect and conserve our natural resources through sustainable development. We want to do our part to keep this world sustainable for future generations. When deciding on our carbon offset activities, we specifically look not just for international projects, but also for regional projects with a local impact." The exact contribution that is required for WU to offset its carbon emissions is reassessed on a yearly basis. WU chooses new climate protection projects to support each year based on its annual carbon emissions.

EFFECTS OF THE PROJECTS WU VIENNA SUPPORTS



TRANSPORTATION

WU Vienna is close to Vienna's Prater park (2nd district) and easy to reach by public transport. Most faculty, staff and students use public transport to get to campus.

Vehicle fleet

WU Vienna has a small fleet of communal vehicles.

EMISSIONS WATER

Fecal matter and cleaning products from building maintenance and cleaning are the primary pollutants in wastewater.

OTHER ENVIRONMENTAL ASPECTS

Biodiversity

The entire campus is 100,000 m², with around 55% sealed and the remaining approx. 45% left as open space. This translates to approx. 22 m² of sealed area per employee. Around 250 trees were planted in the open campus area, most of which is green space. A variety of herbs and grasses were planted in some places on campus to provide food and habitats for bees, butterflies, and other insects. An urban gardening area was opened for faculty and staff three years ago and is extremely popular.

Results of WU transportation survey:

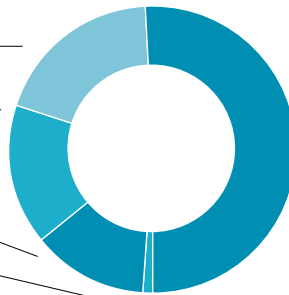
Public transport 51%

Walk 19%

Bicycle 16%

Car 13%

Motorcycle 1%



Bee hives on the roof of the D3 building



Urban gardening area – 25 lots in total

Like many prominent buildings in Vienna (such as City Hall, the State Opera, and the Burgtheater), WU has established four bee colonies (apiaries) on the roof of the D3 building. A Vienna-based, organic, private beekeeping company cares for the bee colonies and harvests over 110 kg of honey every year.

Residual pollution and emissions in the soil

Since comprehensive testing was done before construction began, it is safe to assume that there is no residual pollution in the soil. As a rule, no emissions from day-to-day operations are released into the soil.

Other forms of pollution (noise, odors, radiation)

Day-to-day operations at WU do not produce noise or other kinds of pollution that would impact neighboring businesses or residents.

Plants on Campus Ein Rundgang durch die Pflanzenvielfalt auf dem Campus WU
A tour of the Campus WU gardens

Trogbepflanzung
Large planters

Die Außenanlagen auf dem Campus WU wurden im Jahr 2013 hergestellt. Die landschaftsarchitektonische Planung hat ein jahreszeitliches Pflanzkonzept vorgesehen. Die Pflanzflächen erstrecken auf dem Campus WU in vielen Farb- und Formvarianten über das ganze Jahr hinweg. Das Farbkonzept dieser Tröge erstreckt sich über Violett bis Blau. Farbgebend sind beispielsweise die **Katzenminze (Nepeta)** und die **Asteren (Aster)**, der **Salbei (Salvia)** und der **Blaustrahlhahner (Helictotrichon)**.

Campus WU including the grounds and landscaping, was completed in 2013. The landscaping concept included a seasonal planting plan, resulting in a dazzling variety of different combinations of colors and shapes appearing throughout the year. The large planters contain perennials that bloom on the blue to violet end of the color spectrum, for example **catnip (Nepeta)**, **asters (Aster)**, **sage (Salvia)**, and **blue oat grass (Helictotrichon)**.

Salvia (Salvia)
Bepflanzung: Salvia
Wartung: Salvia
Wartung: Salvia
Wartung: Salvia

Aster (Aster)
Bepflanzung: Aster
Wartung: Aster
Wartung: Aster
Wartung: Aster

Helictotrichon (Helictotrichon)
Bepflanzung: Helictotrichon
Wartung: Helictotrichon
Wartung: Helictotrichon
Wartung: Helictotrichon

Nepeta (Nepeta)
Bepflanzung: Nepeta
Wartung: Nepeta
Wartung: Nepeta
Wartung: Nepeta

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Plants on Campus Ein Rundgang durch die Pflanzenvielfalt auf dem Campus WU
A tour of the Campus WU gardens

Das Garagen-Grün und die Schirmplatanen
Garage plantings and plane trees

Bei den Garagenabgängen können Sie im Untergeschoss begrünte Flächen erkennen. In den Kleebäumen hängen immergrüne **Bambus (Fargesia)**, **Funkeln (Hosta)** und die silbrigen Blätter des **Kaukasus-Vergissmichnicht (Brunnera)** die Parkgarage auf. Im Bereich der Mensa spendet die besondere Kronenform der **Schirmplatanen (Platanus)** reichen Schatten zum Verweilen. Diese schirmförmige Baumkrone wird durch die Erweiterung des Bambusgerüsts regelmäßig vergrößert.

Looking down into the parking garage, you can see plantings on the subterranean level. Evergreen bamboo (*Fargesia*), *hostas (Hosta)*, and the silvery leaves of the **caucasian forget-me-not (Brunnera)** add a decorative touch to the parking garage areas. In front of the cafeteria, specially pruned and shaped **plane trees (Platanus)** provide plenty of shade for hot summer days. The umbrella-shaped crown of the plane trees is supported by a bamboo structure that is extended as the tree grows.

Fargesia (Fargesia)
Bepflanzung: Fargesia
Wartung: Fargesia
Wartung: Fargesia
Wartung: Fargesia

Hosta (Hosta)
Bepflanzung: Hosta
Wartung: Hosta
Wartung: Hosta
Wartung: Hosta

Brunnera (Brunnera)
Bepflanzung: Brunnera
Wartung: Brunnera
Wartung: Brunnera
Wartung: Brunnera

Platanus (Platanus)
Bepflanzung: Platanus
Wartung: Platanus
Wartung: Platanus
Wartung: Platanus

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Plants on Campus Ein Rundgang durch die Pflanzenvielfalt auf dem Campus WU
A tour of the Campus WU gardens

Freiraum für alle Sinne
Landscaping for all five senses

Auf dem Campus WU findet sich eine Vielzahl an Freiraumplanerischen Highlights. Neben der anspruchsvollen Architektur der Gebäude bieten auch die weitläufigen Freiflächen unterschiedliche Plätze zum Treffen und Verweilen. Charakteristisch für die Außenanlagen des Campus ist die Abfolge unterschiedlicher Oberflächen wie Holz, Naturstein, Sichtbeton und Terrazzo in Verbindung mit dem jahreszeitlichen Pflanzkonzept. Hier im Eingangsbereich wurden unter anderem **Fliedersträucher (Syringa)**, die **Prachtscharte (Liatris)**, der **Purpurrosmarin (Echinacea)** und die **Sonnenbraut (Helianthus)** gepflanzt.

The landscaping on the grounds of Campus WU was planned in careful detail and designed to complement the impressive architecture of the campus buildings. The generously dimensioned open spaces offer a wide range of inviting places to meet up with other people or simply relax. The open spaces on Campus WU are characterized by a mix of different surface materials, like wood, stone, saw concrete, and Terrazzo, combined with seasonal plantings throughout the campus. Here in this entrance area you can find **lilacs (Syringa)**, **beeing star (Liatris)**, **coneflower (Echinacea)**, and **sunflower (Helianthus)**.

Syringa (Syringa)
Bepflanzung: Syringa
Wartung: Syringa
Wartung: Syringa
Wartung: Syringa

Liatris (Liatris)
Bepflanzung: Liatris
Wartung: Liatris
Wartung: Liatris
Wartung: Liatris

Echinacea (Echinacea)
Bepflanzung: Echinacea
Wartung: Echinacea
Wartung: Echinacea
Wartung: Echinacea

Helianthus (Helianthus)
Bepflanzung: Helianthus
Wartung: Helianthus
Wartung: Helianthus
Wartung: Helianthus

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Plants on Campus Ein Rundgang durch die Pflanzenvielfalt auf dem Campus WU
A tour of the Campus WU gardens

Die herbstliche Verfärbung am Hügel
Fall colors on the slope

Auf diesem Hügel befinden sich diverse Sträucher, wie beispielsweise die **Eberflamme (Epilobium)** und der **Salomonssiegel (Polygonatum)** mit seinen hängenden weißen Blüten. Im Herbst erregt sich hier ein besonderes Farbenspiel die Blätter des **lila-blauen geschnittenen Buchenbaums (Cercidiphyllum)** verfärbten sich zu dieser Jahreszeit kräftig orange bis rot. Dieses herbstliche Farbenspiel entsteht durch den Abbau des grünen Farbstoffes Chlorophyll, wodurch die gelb-roten Pigmente im Blatt zum Vorschein kommen. Seinen Kosmosnamen verdankt dieser Laubbaum dem süßlichen karamellartigen Geruch, welche die Blätter im Herbst abgeben.

This slope is planted with a variety of flowering perennials, for example **barrenwort (Epilobium)** and **solomon's seal (Polygonatum)** with its bell-shaped white blossoms. This area puts on a particularly beautiful display of colors in the fall when the leaves of the **cake tree (Cercidiphyllum)** turn a brilliant orange and red. The intense colors appear when the tree stops producing chlorophyll, thus revealing the leaves' yellow and red pigmentation. The tree's nickname in German is "Kuchenbaum", or "cake tree", because of the sweet, burnt-sugar scent its leaves give off in the fall.

Epilobium (Epilobium)
Bepflanzung: Epilobium
Wartung: Epilobium
Wartung: Epilobium
Wartung: Epilobium

Polygonatum (Polygonatum)
Bepflanzung: Polygonatum
Wartung: Polygonatum
Wartung: Polygonatum
Wartung: Polygonatum

Cercidiphyllum (Cercidiphyllum)
Bepflanzung: Cercidiphyllum
Wartung: Cercidiphyllum
Wartung: Cercidiphyllum
Wartung: Cercidiphyllum

Other plant
Bepflanzung: Other plant
Wartung: Other plant
Wartung: Other plant
Wartung: Other plant

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Nature trail on campus with 8 illustrated signs



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Bus: 82A Station Südportalstraße