



# Green University program - seedbed for V4GU and further co-operations

Balázs Borkovits, international project manager  
22 Sept 2020, V4 Green Universities conference



# University of Pécs

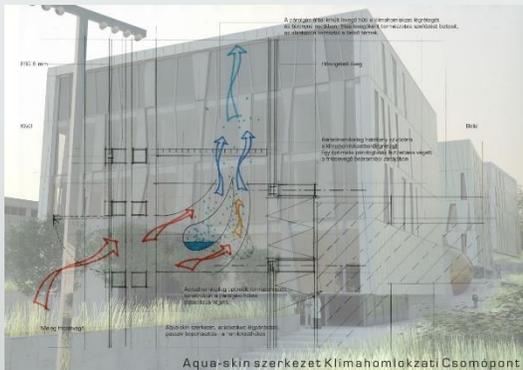
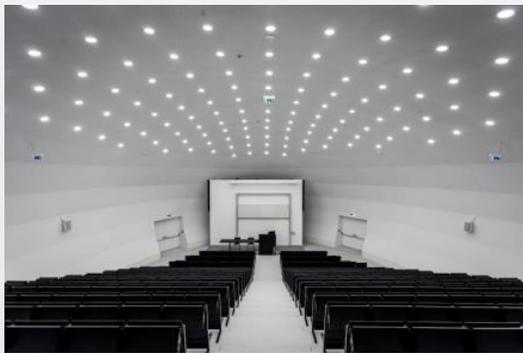


- Its roots date back to 1367
- 10 faculties, 22 doctoral schools
- 20.000 students, more than 4.000 international students
- 2.000 lecturers and researchers
- Szentágothai János Research Centre - biomedical, natural, engineering and environmental sciences
- Project based developments are supported by the Directorate of Grants of the Chancellery



- Visegrad Fund

# Green Developments at UP



Setting up a 7700 m<sup>2</sup> research center (Science Building) - innovative ecological, passive house and smart house solutions, 30-40% lower maintenance cost compared to a traditional building. Building Physics Simulations and Building Management System. (2012)

Development of more advanced and cost-effective geothermal re-injection well technology that the currently used wells. (2021)

Installing PV panels, solar collectors, LED lighting at different premises



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# Green Developments at UP



Joint researches on raw material management, waste and residues (2021)



Elaborating educational program for designing and operating nearly zero energy buildings



Procuring electric vehicle (Nissan Leaf 2018) and charging station to promote e-mobility at Pécs

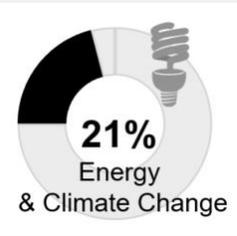


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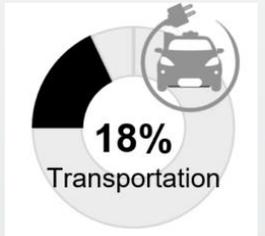
# Green University Program



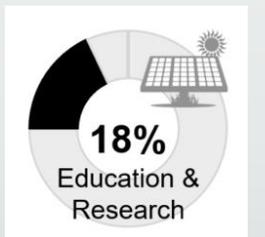
- Started in 2016
- Complex system including built environment, ecologically conscious operation, behavioral change, creation of an educational and research background



- Voluntary cooperation of University employees, students
- Testing achievements in international environment: ranking of green universities launched by the University of Indonesia in 2010: <http://greenmetric.ui.ac.id/>



- Campaigns and project based developments
- Virtual Power Plant Program



• Visegrad Fund

# UI Green Metric



- Initiative of Universitas Indonesia, launched in 2010
- Uniform system, suitable to attract the support of thousands of the world's universities - results are based on a numerical scores that allows ranking
- Universities submit data via online surveys
- Setting & Infrastructure, Energy & Climate Change, Waste Water, Transportation, Education & Research



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# V4GU – setting up the partnership



- Idea: Changing the behaviour of people may result in GHG cutbacks, but people need to be informed and motivated
- Why universities?
  - They represent **large communities** with their thousands of employees and ten thousands of students, who can also act as multipliers by sharing their eco-conscious practices with friends, family, wider public via social media.
  - They are also equipped with the **scientific knowledge** to measure the climate impacts of people's everyday routines, identify reduction potentials, measure results.
- As members of the Green Metric network, partners are all experienced in CP actions
- The Universities of the V4 countries take diverse positions in the ranking, which included 780 institutions in 2019. These differences create great opportunities to **learn from each other**. Real cooperation can be established by a project.

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# V4GU – setting up the partnership



Ranking	University	Total Score	Setting & Infrastructure	Energy & Climate Change	Waste	Water	Transportation	Education & Research
46	<a href="#">Czech University of Life Sciences Prague</a>	7275	1025	1650	1650	675	875	1400
77	<a href="#">University Of Szeged</a>	7050	1175	1025	1650	550	1450	1200
141	<a href="#">University Of Pecs</a>	6075	975	1100	1350	550	1075	1025
161	Adam Mickiewicz University, Poznan	5875	1275	800	1275	425	675	1425
265	<a href="#">Eötvös Loránd University Budapest</a>	5225	925	675	1350	350	775	1150
278	<a href="#">Gdansk University Of Technology</a>	5125	1100	850	1200	100	950	925
322	<a href="#">University of Lodz</a>	4900	400	875	825	475	850	1475
351	<a href="#">University of Hradec Kralove</a>	4750	650	1175	975	100	1175	675
355	<a href="#">University of Debrecen</a>	4750	650	750	975	250	1050	1075
460	<a href="#">Budapest Business School</a>	4275	600	1250	825	400	600	600
467	<a href="#">University of Pardubice</a>	4250	525	1025	900	425	550	825
499	<a href="#">University of Miskolc</a>	4075	500	1150	450	100	575	1300
526	<a href="#">Corvinus University of Budapest</a>	3950	650	700	450	450	650	1050
534	<a href="#">Szent Istvan Egyetem</a>	3900	675	725	525	325	825	825
549	<a href="#">Slovak University of Agriculture in Nitra</a>	3800	800	525	600	175	600	1100

Visegrad countries: Poland, Czech Republic, Slovakia, Hungary – allusion to the Medieval Congress of Visegrád in 1335 between John I of Bohemia, Charles I of Hungary and Casimir III of Poland

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198	Ukrainian National Forestry University, Lviv	5600	1175	675	975	400	900	1475
384	University of Kragujevac	4575	800	800	600	425	900	1050
549	Slovak University of Agriculture in Nitra	3800	800	525	600	175	600	1100

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# V4GU – setting up the partnership



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# V4GU



- Duration: 1 March 2020 – 31 Aug 2021
- Budget: 32.300 EUR
- GM members see their positions in the ranking, but we do not have the possibility to **compare our results** in details. V4GU erases this barrier, and helps us to support citizens in understanding climate change, and their possibilities for reducing GHG.
- V4GU will reach more than **66.000 students and almost 11.000 employees**
- Filling GM network with practical content, measurable GHG reductions. The partners also intend to keep organising annual workshops for their countries' universities to strengthen co-operations.
- Conferences in Slovakia and Czech Republic have been erased – to be integrated into the continuation



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# V4GU - Activities



Activities	Timeplan																	
	2020										2021							
	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	jan	feb	mar	apr	may	jun	jul	aug
<b>Tasks</b>																		
Audit																		
Project design																		
Project website development: project description, activities (documents of events, video) and contact details in all partners' language versions. Edited and uploaded by HU, translations will be supported by the staff all partners (short texts, not translation fee is calculated). Launched in Apr, updated regularly during the project.																		
V4 Green University conference with press conference at Pécs - <b>22 Apr (Wednesday)</b> , Earth Day. Attendees: project partner universities and all universities of the Hungary - altogether min 80 persons.																		
Kick off meeting at Pécs - 22 Apr - after the conference																		
Local workshops with press conference: All partners organise a workshop for the universities of their countries on <b>5 Jun</b> , at the World Environment Day. Experiences of the V4 conferences and the social campaigns will be forwarded for local universities in all partner countries. At least 20 participants per event.																		
Creating video campaign with innovative tools such as infographics, cartoons. Campaign should be launched at least 1 month before the social competition at HU, CZ, SK																		
Social competition for students (e.g. photo competition, energy saving competition, tests on knowledge on climate change, etc.)																		
Promo materials for the competition: T-shirts, canteens, USBs, etc.																		
Radio, TV, newspaper articles, interviews - general on the project and on green university messages																		

Fund

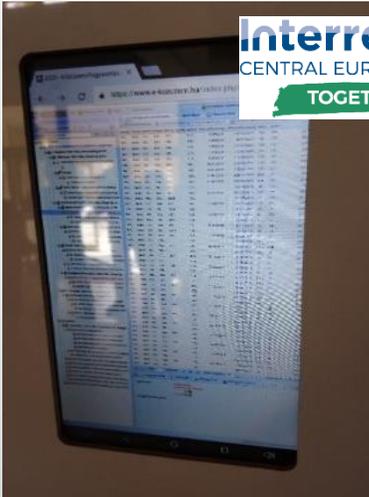
# Video campaign

1st place (2019): <https://youtu.be/3U1YA7tCoNM>



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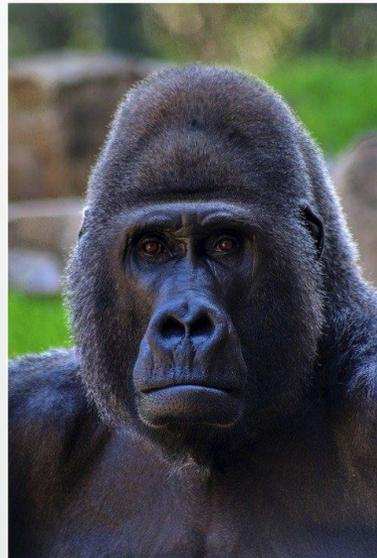
# Awareness raising - Energy efficiency



Solar Decathlon 2019  
(architecture: 2nd place, energy efficiency: 3rd place, viewer's choice award)

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# Awareness raising - Waste



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# Awareness raising - Transport



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# Awareness raising – Water and nature



Jubileum Park – planting 650 trees

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# Living labs / AR

Cooperation with the city

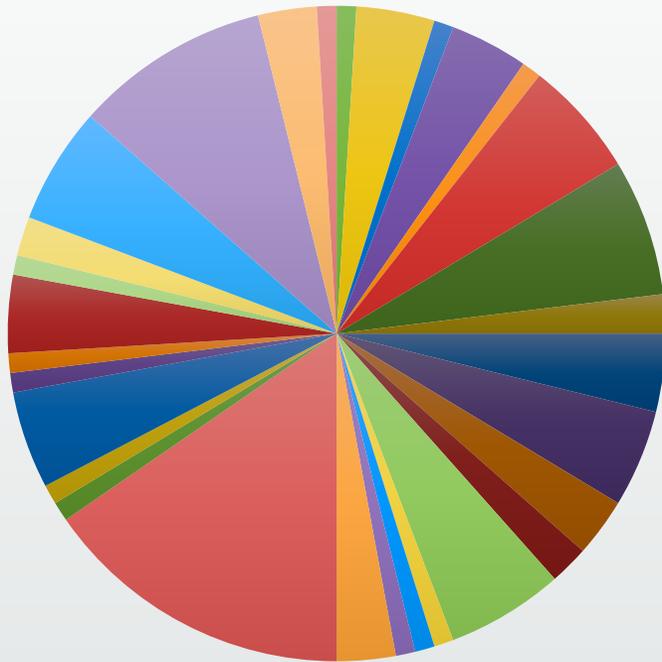
University of Pécs: awareness raising for students and citizens



City of Koprivnica (CR): Test field for public lighting industry



# V4GU – What can we reach today?



- |           |             |              |             |            |
|-----------|-------------|--------------|-------------|------------|
| Algerian  | Bangladeshi | Brazilian    | Chinese     | Cypriot    |
| Czech     | Egyptian    | Ghanaian     | Indian      | Indonesian |
| Jordanian | Kazakh      | Kenyan       | Kyrgyz      | Lybian     |
| Moroccan  | Nigerian    | Pakistani    | Palestinian | Romanian   |
| Serbian   | Slovak      | South Korean | Syrian      | Tajik      |
| Tunisian  | Turkish     | Ukrainian    | Vietnamese  | Yemeni     |
- + 101 Hungarians

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<http://v4gu.pte.hu/>

THANK YOU FOR YOUR  
ATTENTION !

**Balázs Borkovits**  
international projectmanager



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