

Iceland Liechtenstein Norway grants

The "Islands of Knowledge" project benefits from a grant of €155,956.00 from Iceland, Liechtenstein and Norway under the EEA Funds. The project aims to develop a culture of quality in the education sector by diagnosing, planning, developing and implementing by 30.04.2024 a concept of university education based on universal design, inclusive and personalised education, as well as the teaching of key skills from the point of view of socio-economic needs and competences necessary for the free adaptation of students and graduates of the University of Silesia in Katowice to changing times.

ACTIVITIES CARRIED OUT UNDER THE PROJECT "ISLANDS OF KNOWLEDGE" PROJECT	
Module Title:	<i>The prognosis for climate change in Katowice</i>
Task:	<i>Development, implementation and evaluation of classes in the team form of exercise modules</i>
Instructor:	<i>Dr Paweł Wąsowicz, PhD</i>
Course content:	<ol style="list-style-type: none"> 1. Selection of the model for climate research (MIROC6 and submodels of atmosphere, land and ocean) 2. Selection of bioclimatic predictors 3. Presentation of SSPs based on mean data 4. Climate change scenarios for 2021-2100 AD on the example of the city of Katowice based on climate data from the WorldClim database.
Literature:	<ol style="list-style-type: none"> 1. DKRZ, The SSP Scenarios, (https://www.dkrz.de/en/communication/climate-simulations/cmip6-en/the-ssp-scenarios (30.04.2023). 2. Tatabae H. et al., Description and basic evaluation of simulated mean state, internal variability, and climate sensitivity in MIROC6,



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	<p>https://gmd.copernicus.org/articles/12/2727/2019/gmd-12-2727-2019.html (30.04.2023).</p> <p>3. USGS, Bioclimatic Predictors for Supporting Ecological Applications in the Conterminous United States, https://pubs.usgs.gov/ds/691/ds691.pdf (30.04.2023).</p> <p>4. WorldClim Database, https://www.worldclim.org/ (30.04.2023).</p>
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ACTIVITIES CARRIED OUT UNDER THE PROJECT "ISLANDS OF KNOWLEDGE"	
Module Title:	<i>City 2040 - climate self-sufficient?</i>
Task:	<i>Development, implementation and evaluation of teaching activities in the form of tutoring</i>
Instructor:	<i>mgr Artur Tyński</i>
Course content:	<ol style="list-style-type: none"> 1. Introduction to the European Union's climate policy in economic, legal and social terms 2. Introduction to EU legislation on the role of local and regional authorities in the energy transition process 3. Introduction to Polish strategic documents covering the energy sector 4. Introduction to Polish laws regulating energy communities and the climate policy of local self-governments 5. Familiarisation with energy communities operating in Poland (energy cooperatives, energy clusters) 6 Study visit to Racibórz city 7. Study visit to power plants indicated by the Tauron Group 8. Meeting with a representative of the Jagiellonian Institute 9 Group work

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	<p>9.1 Analysis of the economic and political situation 9.2 Analysis of technologies available on the market 9.3 Analysis of electricity consumption in the city 9.4 Planning analysis Summary in the form of an outline analysis of the climate self-sufficiency project for Racibórz</p>
<p>Literature:</p>	<ol style="list-style-type: none"> 1. Ustawa z dnia 16 września 1982 r. – Prawo spółdzielcze (tj. Dz. U. z 2021 r. poz. 648). 2. Ustawa z dnia 10 kwietnia 1997 r. – Prawo energetyczne (tj. Dz. U. z 2022 r. poz. 2687) 3. Ustawa z dnia 20 lutego 2015 r. o odnawialnych źródłach energii (t.j. Dz. U. z 2022 r. poz. 1378) 4. Ustawa z dnia 4 października 2018 r. o spółdzielniach rolników (tj. Dz. U. z 2018 r. poz. 2073) 5. Polityka Energetyczna Polski do 2040 r. 6. Ministerstwo Energii: Koncepcja funkcjonowania klastrów energii. 7. Communication from the commission: The European Green Deal, COM (2019). 640, Brussels, 11.12.2019. 8. Dyrektywa 2003/87/WE Parlamentu Europejskiego i Rady z dnia 13 października 2003 r. ustanawiająca system handlu przydziałami emisji gazów cieplarnianych w Unii oraz zmieniająca dyrektywę Rady 96/61/WE. 9. Dyrektywa Parlamentu Europejskiego i Rady (UE) 2018/2001 z dnia 11 grudnia 2018 r. w sprawie promowania stosowania energii ze źródeł odnawialnych (Dz. U. UE. L. z 2018 r. Nr 328, str. 82 z późn. zm.). 10. Dyrektywa Parlamentu Europejskiego i Rady (UE) 2019/944 z dnia 5 czerwca 2019 r. w sprawie wspólnych zasad rynku wewnętrznego energii elektrycznej oraz zmieniająca dyrektywę 2012/27/UE (Dz. U. UE. L. z 2019 r. Nr 158, str. 125 z późn. zm.). 11. Berka A.: A short history of community renewable energy in the UK, 2017.

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	<p>12. Biresselioglu M., Limoncuoglu S., Demir M., Reichi J., Burgstaller K., Sciallo A., Ferrero E.: Legal Provisions and Market Conditions for Energy Communities in Austria, Germany, Greece, Italy, Spain, and Turkey: A Comparative Assessment, 2021.</p> <p>13. Bolinger M.: Making European-style community wind power development work in the US.</p> <p>14. Butturi M., Sellitto M., Lolli F., Balugani E., Neri A.: A model for renewable Energy symbiosis networks in eco-industrial parks, 2022.</p> <p>15. Czarnecka M.: Rozwój klastrów energii w Polsce – uwagi ogólne, Warszawa 2018.</p> <p>16. Debor S.: The socio-economic power of renewable energy production cooperatives in Germany: Results of an empirical assessment. Wuppertal Papers, Wuppertal 2014.</p> <p>17. Deloitte: Raportowanie ESG w praktyce, Warszawa 2021.</p> <p>18. EY&ING: Raport o zmianie priorytetów, Warszawa 2021.</p> <p>19. Fraś B., Ivashchuk O.: Rola klastrów w zrównoważonym rozwoju energetyki w Polsce, Kraków 2017.</p>
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