

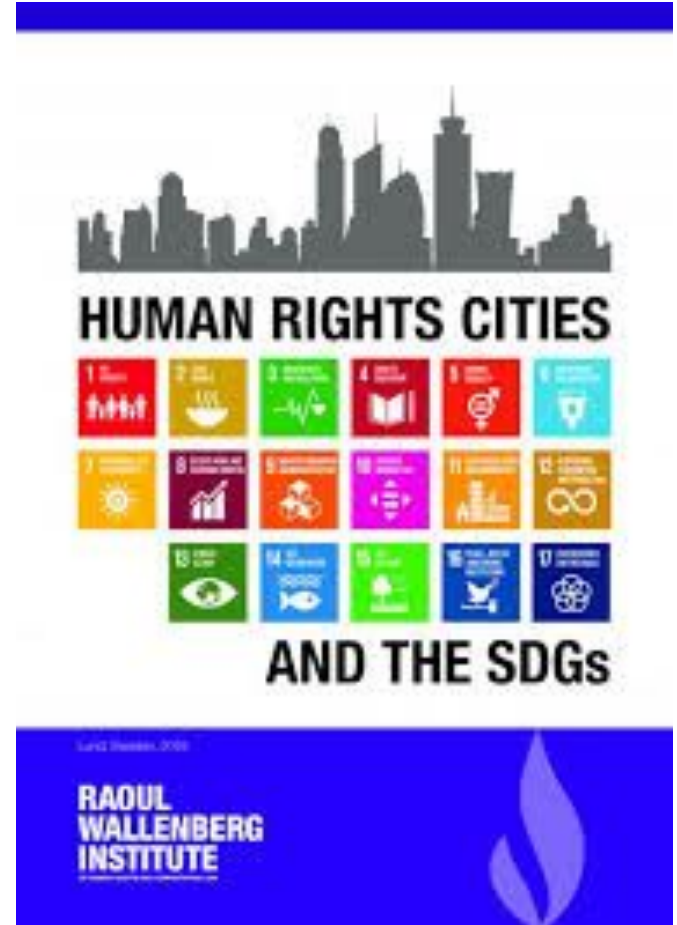
Dawson Vandervort

Bringing Sustainable Ecology to Dayton



Human Rights Cities

- City whose legislation adheres to:
 - Universal Declaration of Human Rights (UDHR)
 - International Covenants/Conventions
 - Other International documents
- Human Rights City Initiative
 - Emerged from Human Rights Movement
- Examples:
 - Timbuktu, Mali
 - Seoul, South Korea
 - Nuremberg, Germany
 - Winnipeg, Canada
 - Rosario, Argentina



My Research/SDGs

6: (6.6) Great & Little Miami river conservation; water quality

7: (7.1.2, 7.3) Ohio's energy base (3% renewable); green building / sustainable practices

11: (11.1-11.6) Inaccessible / unsafe housing; sustainable cities; air quality

13: (13.1) Climate Change's impact on Dayton business



SDGs 6 & 7 in Dayton

- Water quality & River Conservation
 - Wright-Patt air force is a “Groundwater Guardian”
 - Dayton’s water meets state & federal standards
 - Contaminants still found in water (falls below federal maximum)
 - Evidence of harmful human activities on aquifer
 - 64% of aquatic use attainment sites met their required use (Ohio EPA)
- Reliance on clean fuels → Ohio gets 97% of its energy from fossil fuels
 - Solar panels are growing in popularity in Dayton
 - Especially at UD
 - UD earns \$1.2 million in energy rebates
 - Ohio is(slowly)increasing incentives for energy efficiency
 - DP&L extends rebates for energy efficient homes
 - Negative: HB 6, passed summer 2019
 - Supports nuclear and, significantly, coal



Dayton Local



The News-Herald (Perry, OH)

SDG's 11 & 13 in Dayton

- Realistic housing options, sustainable cities, and air quality

- 475 households experiencing homelessness in 2019
- Sustainability plan with Burton Planning Services (BPS)
 - Revolves around the aquifer
- The Flyer provides accessible public transport
- Air Quality Index (AQI) is 67 (moderate), 4.7.20
 - Ozone - 28 (good)
 - Particles (PM2.5) - 67 (moderate)
- Air quality is quite poor in Ohio
 - Lack of energy production in Dayton
 - Air is better (no Nuclear plants, etc.)

- Action to fight climate change

- Climate Change will harm Dayton with:
 - Heat waves, poor air quality, poor water quality, agricultural & infrastructure damages



Advocacy Campaign

- Combination of “Groundwater Guardians” and economic incentives such as energy efficiency rebates
- First, gather statistics, & necessary background research find projects and issues integral to the community
- Most important, reach out to all groups of people in the area to ensure:
 - Diverse viewpoints are heard
 - Interdisciplinary fields cultivate great professional relationships
 - Key institutional resources can be utilized
 - Ex. Great Miami Conservancy shares resources with Ohio EPA who gives data to nearby universities





Objectives of the Campaign

- Legislation
 - Replace HB 6 with a less dirty energy friendly bill
 - While recognizing the merits of keeping nuclear and coal for the short-term
 - Modernize Ohio's power grid
 - Mitigates rolling blackouts
 - Improves energy efficiency
 - Incentivize electric vehicles and green home energy options
 - Remember, EV's do no good if the electric still comes from coal
 - Find a reasonable, yet timely, plan to enter into carbon neutrality (by 2030? 2040?)
 - Eventually, become carbon negative
 - Use more carbon than you put out



Independence Institute

Personal Reflection

- I don't see a lot of emphasis on ecological integration in Dayton
 - Or with SDG's in general
- Main focus is on social and human issues
 - Housing
 - Education
 - Opioid epidemic
- Integration of ecology is required
 - Green cities are happier cities (EU)
 - Increased access to healthy foods
 - Improved mental health
 - Green cities correlate to decreased crime and drug use (CityLab, *The Atlantic*)
 - Healthy environments → healthy communities (WHO)
 - Increased biodiversity education



Personal Reflection

- SDG's are great, but they don't reflect the intersectionality of each goal
 - Without one, it's hard to start improving the others
- Lived in Dayton for 15 years
 - I was already familiar with the typical issues
 - I was not aware of how much damage will be done due to Climate Change
- Everything done in Dayton has an impact on the whole world
 - From California to South Korea

