Localising the Agenda 2030: SDG Follow-Up in Bonn

Strengthening Follow-Up and Review of the SDGs at the Local Level
IGES
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Bonn – Germany's UN City and Sustainability Hub

- 338.396 inhabitants from 170 nations

- 26 UN organisations work from Bonn on the 2030 Agenda under the common theme „Shaping a sustainable future", e.g. UN Climate Secretariat, UNCCD, UN Volunteers Programme, UN Systems Staff College, SDG Action Campaign

- German hub for development cooperation

- Academic cluster: Bonn Alliance for Sustainability Research, IDOS

- Home to over 150 NGOs, international organisations, scientific institutions and thematic networks, e.g. biodiversity, disaster risk prevention, water, climate

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Milestones of Sustainability Management in Bonn

- **General commitment to the implementation of Agenda 2030:**
  -> City Council resolution on localising the SDGs as one of the first
  German municipalities (Feb 2016)
- **Systematic integration of SDGs into municipal action:**
  -> Development of local sustainability strategy (Adopted Feb 2019)
- **Four priority topics are developed further since 2020:**
  -> Climate neutral Bonn 2035 is central theme (city council resolution 2019),
  participatory process Bonn4Future, Climate Action Plan 2022
  -> sustainable mobility – social justice – digital transformation
- **Monitoring and evaluation**:
  - > Sustainability reports since 2005 (every 3 years)
  - > Compilation of first VLR in October 2020, second VLR in 2022
  - > Currently development of a sustainability dashboard
- **Introduction of sustainability indicators and development of impact oriented budgeting**
  - > Participation in NRW pilot project 2020/21
  - > Decision to transform the complete municipal budget 2022 – 24

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SDG-Reporting in Bonn

- Five sustainability reports since 2005

- 2016: Inclusion of SDG indicators

- 2020: first Voluntary Local Review in accordance with Bonn's sustainability strategy

- 2022: Participation in the testing of the RNE's Sustainable Municipality Reporting Framework

- 2024: Development of a sustainability dashboard for separate fields of action, e.g. climate, more to follow

- SDG portal of the Association of German Cities: : https://sdg-portal.de/

| 2002-2004 | 2005-2007 | 2008-2011 | 2012-2015 |

Challenges in tracking SDG progress on the local level

General objective:

- Find out if local policies are effective and create the desired results

BUT:

- Available data is limited and too aggregated

- Staff resources to compile data are limited

- Regular and timely updates cannot always be ensured

- Identifying relevant data that is reflecting the effects of municipal policies and measures is tricky

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SDG Follow-Up: Example Climate Action

Political objective:

- Bonn to become climate neutral by 2035 (City Council decision in 2019)

- Climate plan adopted adopted in 2022, focusing on:
  - Energy: increasing solar energy production
  - Buildings: insulation
  - Mobility: increasing bicycle traffic as a sustainable transport mode
  - Businesses
  - Society
  - Compensation
  - Governance

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SDG follow-up and Review

Example Climate Action - SDG 13

a) Generally available Data:

- SDG portal of the Association of German Cities: https://sdg-portal.de/ offers data for every municipality in Germany with more than 5,000 inhabitants
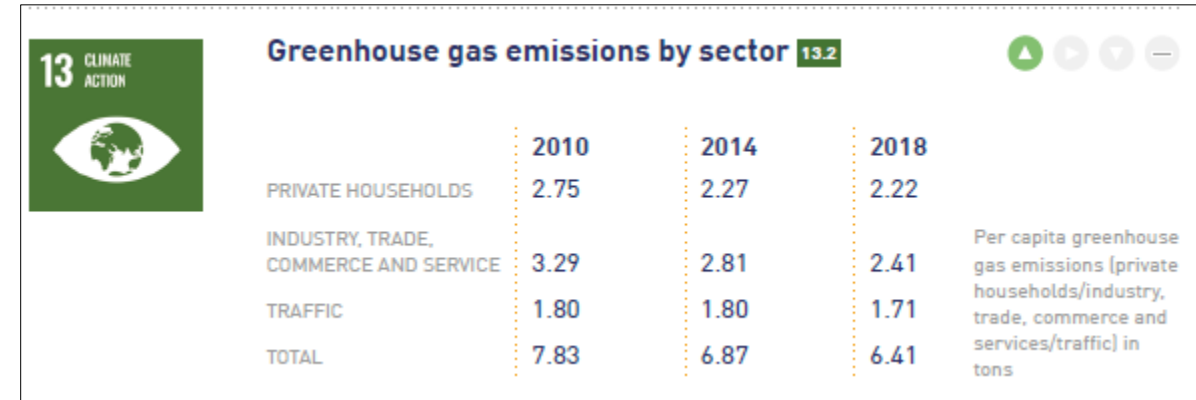
Greenhouse gas emissions – private households ⓘ   –

Greenhouse gas emissions – industry and manufacturing ⓘ   0.45   ▬

As far, only one data point is available for this Indicator, so no diagram is displayed.

Greenhouse gas emissions – industry / commerce, trade, services and other ⓘ   1.34   ▬

As far, only one data point is available for this Indicator, so no diagram is displayed.

Greenhouse gas emissions – municipal facilities ⓘ   0.18   ▬

As far, only one data point is available for this Indicator, so no diagram is displayed.

Greenhouse gas emissions – transport ⓘ   1.5   ▬

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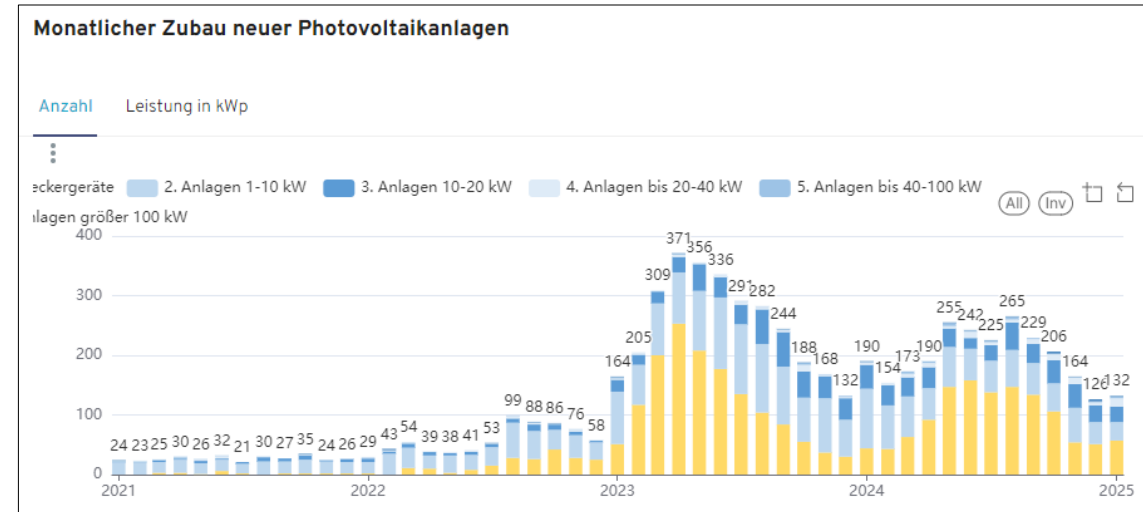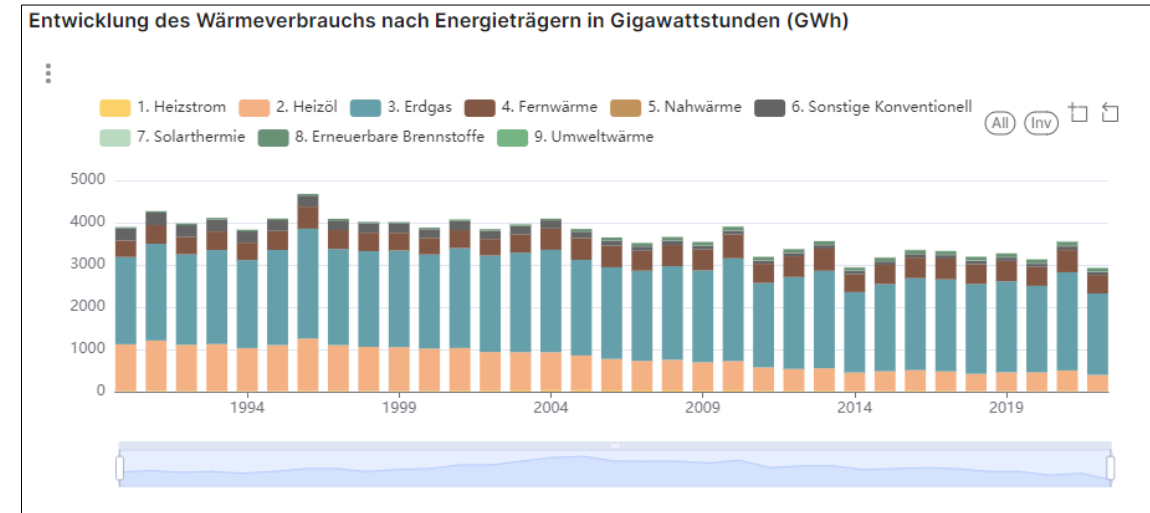# Bonn specific indicators – Climate Action

b) Add-on indicators

- Data collection compiled by the City of Bonn

- Indicators (source VLR 2022):
  - Green house gas emission by sector
  - Solar power production
  - Share of renewables in the public utility company's electricity mix
  - Energy consumption in municipal buildings
  - Energy consumption in private households

13 CLIMATE ACTION

Greenhouse gas emissions by sector 13.2

	2010	2014	2018	
PRIVATE HOUSEHOLDS	2.75	2.27	2.22	Per capita greenhouse gas emissions (private households/industry, trade, commerce and services/traffic) in tons
INDUSTRY, TRADE, COMMERCE AND SERVICE	3.29	2.81	2.41	
TRAFFIC	1.80	1.80	1.71	
TOTAL	7.83	6.87	6.41	

7 AFFORDABLE AND CLEAN ENERGY

Solar power 7.2

	2011	2015	2019	
PHOTOVOLTAIC	0.13	0.23	0.31	Energy production from photovoltaic and solar thermal systems in urban areas as a percentage of total energy consumption
SOLAR THERMAL SYSTEMS	0.10	0.12	0.13	

11 SUSTAINABLE CITIES AND COMMUNITIES

Residential buildings with renewable heating energy 11.b

	2010	2015	2019	
PERCENT	17.9	23.8	36.7	Proportion of completed residential buildings with renewable heating energy

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Bonn Climate Compass

- Climate as priority focus requires more detailed data monitoring
- Development of a dynamic **dashboard** with sustainability indicators that directly reflect on local policies, e.g:
  - Detailed CO2-emission analysis per emitting sector
  - Energy consumption by sector
  - Development of heating energy by energy source (more than 50% of energy consumption come from heating)
  - Increase of solar power production

Entwicklung des Wärmeverbrauchs nach Energieträgern in Gigawattstunden (GWh)

Monatlicher Zubau neuer Photovoltaikanlagen

SDG Follow-Up: Example Mobility

- Political objective:

Increase the share of eco-mobility to 75% by 2030 (City Council Decision in 2019)

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Good practices and tools in SDG follow-up and review

Example Mobility - SDG 11

a) Generally available Data:

- SDG portal of the Association of German Cities: https://sdg-portal.de/ offers data for every municipality in Germany with more than 5,000 inhabitants

- Indicators:
  - Cars with electric motors
  - Motor vehicle density
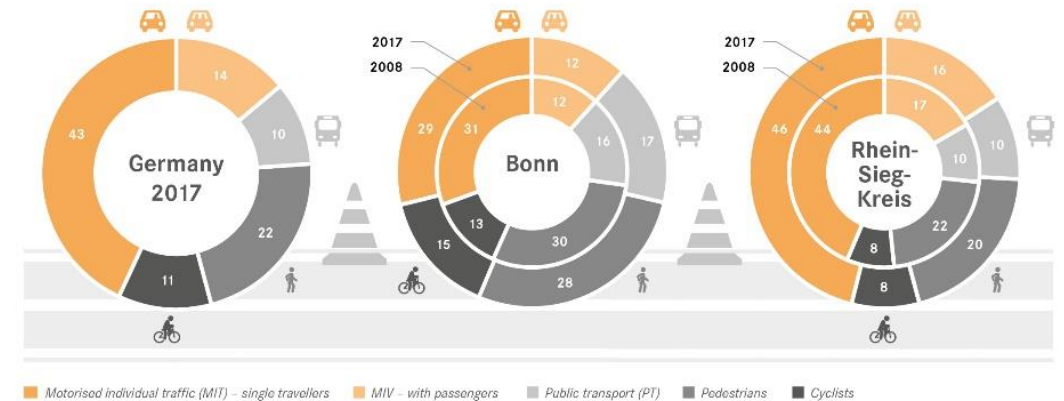 - Road traffic casualties: is compiled by traffic police

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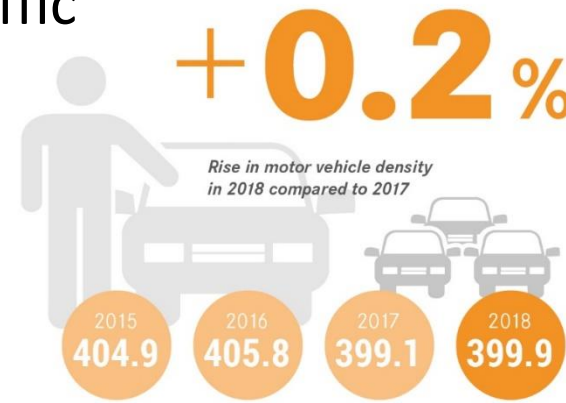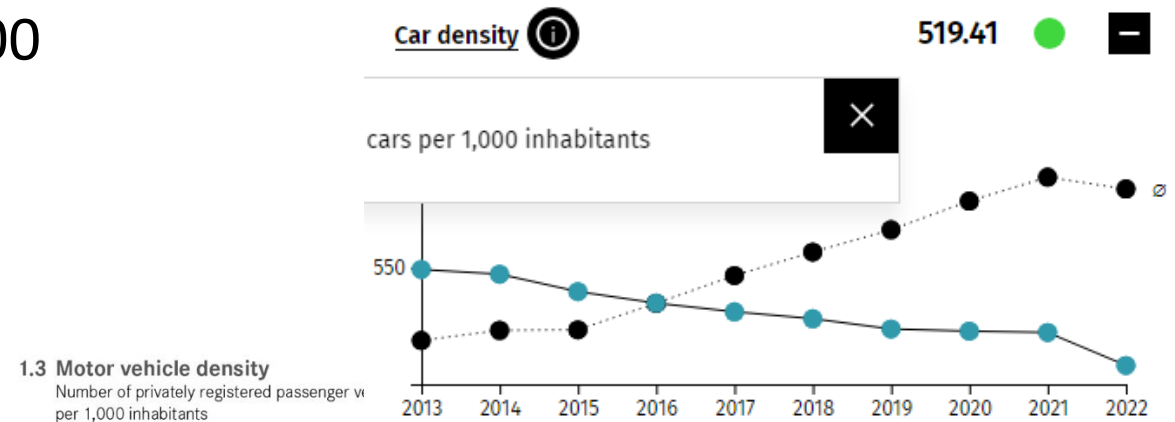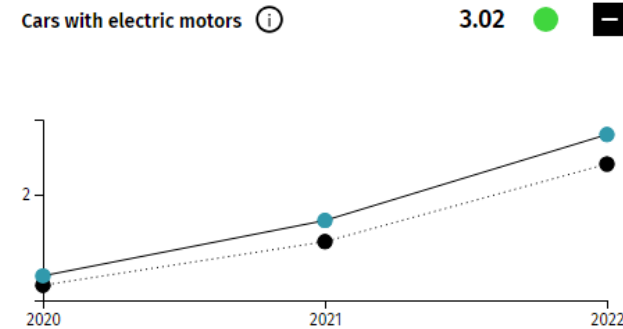
Bonn specific indicators - Mobility

b) Add-on indicators

- Data collection chosen and/or compiled by the City of Bonn

- Indicators:
  - Modal split (choice of transport mode)
  - Access to public transport
  - Bicycle accidents
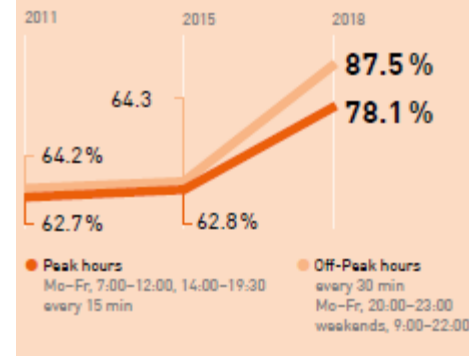 - Traffic accidents with children

1.5 Modal split (choice of transport mode)
Percentage of motorised individual, walking, cycling and public transport, relative to the total traffic volume (routes)

Germany 2017 · Bonn · Rhein-Sieg-Kreis

Motorised individual traffic (MIT) – single travellers · MIV – with passengers · Public transport (PT) · Pedestrians · Cyclists

Access by bus and rail
Percentage of inhabitants within a radius of less than 300 meters (straight-line distance) to an operational bus stop, relative to the total population

2011 · 2015 · 2018

87.5 %
78.1 %
64.3
64.2 %
62.7 %
62.8 %

Peak hours
Mo–Fr, 7:00–12:00, 14:00–19:30
every 15 min

Off-Peak hours
every 30 min
Mo–Fr, 20:00–23:00
weekends, 9:00–22:00

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Current Developments

- Mobility as priority focus requires more detailed data monitoring
- Development of a dynamic **dashboard** with sustainability indicators that directly reflect on local policies, e.g:
  - Results of bicycle counting meters
  - Number of e-charging points for vehicles
  - Number of car sharing points
  - Average distance to car sharing points
  - Proportion of cycle lanes
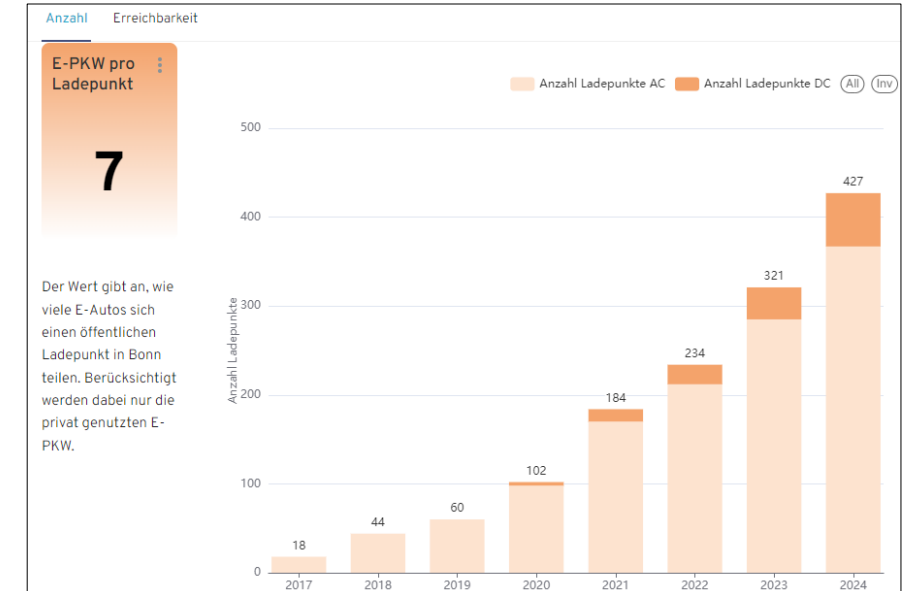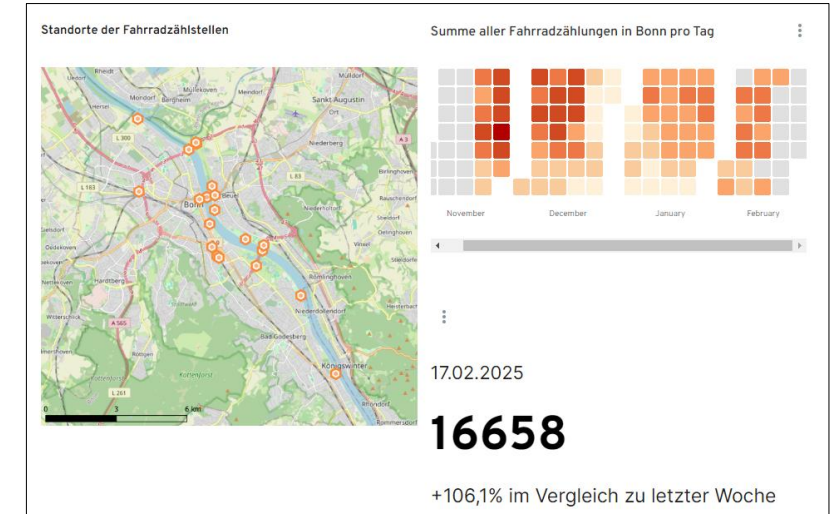
Additional Resources

- **Transparency Report** on the implementation of the citizens motion "Radentscheid" for more sustainable cycling infrastructure
- **Voluntary Local Review 2022** with qualitative aspects

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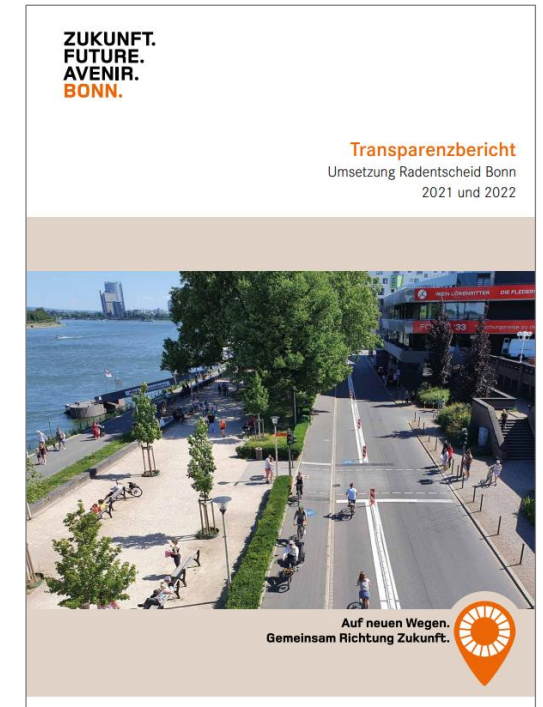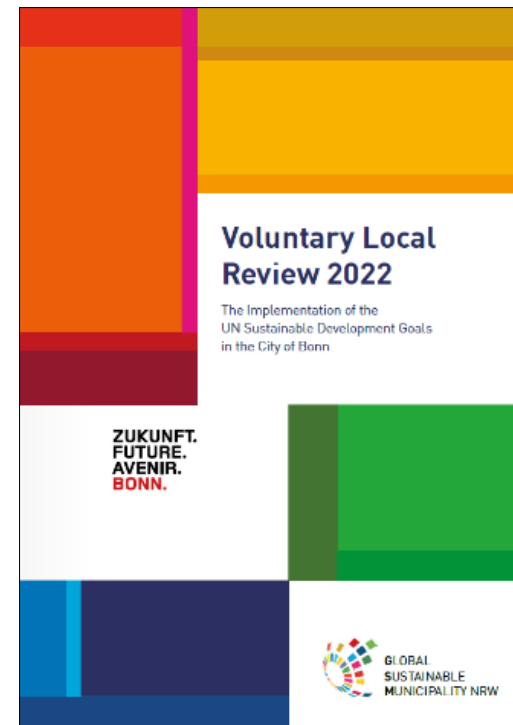
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