Climate Smart City Strategy Vienna Our way to becoming a model climate city

'Smart Climate City Wien" is the vision of a city where quality of life continues to be good, but not at the expense of the environment and thus of future generations. In its sustainability strategy, the City of Vienna commits to doing everything it can to achieve net zero by 2040. To this end, it has defined concrete targets for all spheres

of life, from energy supply and mobility to health, education and digitalisation.

City of Vienna Smart City

Being smart means taking smart action!

Consistent climate policy, a complete transition from fossil to renewable energy, responsible use of resources and a focus on sustainable behaviours – these all create new qualities that ensure the city remains a pleasant place to live.

The Smart Climate City Wien mission statement:

High **quality of life** for everyone in Vienna through social and technical **innovation** in all areas, while maximising conservation of **resources**.

The Smart Climate City Strategy sets out the City of Vienna's long-term goals for mitigating and adapting to climate change and transitioning to a circular economy. As the umbrella strategy for Vienna's climate action package, it defines the climate goals and provides the framework for the Vienna Climate Guide and emissions

A headline goal of the Smart Climate City Strategy is that **Vienna will reduce its** local greenhouse gas emissions by 55% by 2030 and achieve net zero from 2040. Vienna's remaining carbon budget from 2021 onwards is set at a **maximum of 60** million tonnes of CO₂ equivalents. The strategy also provides for the reduction of Vienna's consumption-based material footprint and local per capita final energy consumption. To ensure high quality of life for everyone, the goals also cover social inclusion and making the city a great place for children and young people. Last but not least, Vienna aspires to position itself as an **innovation leader** and digitalisation capital in Europe.

Vienna to get on board and support our endeavour. After all, Vienna can only achieve net zero if we all work together, and everyone in Vienna will benefit from living in a carbonneutral, climate-proof model city!"

"Vienna is the first federal province

achieving **net zero by 2040.** As we

take action to deliver on that goal,

we want to inspire the people of

to set itself the clear goal of

Ulli Sima, Executive City Councillor

for Innovation, Urban Planning

Smart Climate City needs everyone on board

Smart Climate City Wien relies on the engagement and initiative of the Viennese public. The project thrives when as many people as possible actively buy into it as individuals - by contributing their experience and creative ability, joining discussion processes, developing and implementing innovative projects, and through responsible consumer behaviour and mobility choices.



The 17 Sustainable Development Goals

The Vienna Smart Climate City Strategy is based on all 17 Sustainable Development Goals (SDGs) set out in the UN 2030 Agenda.











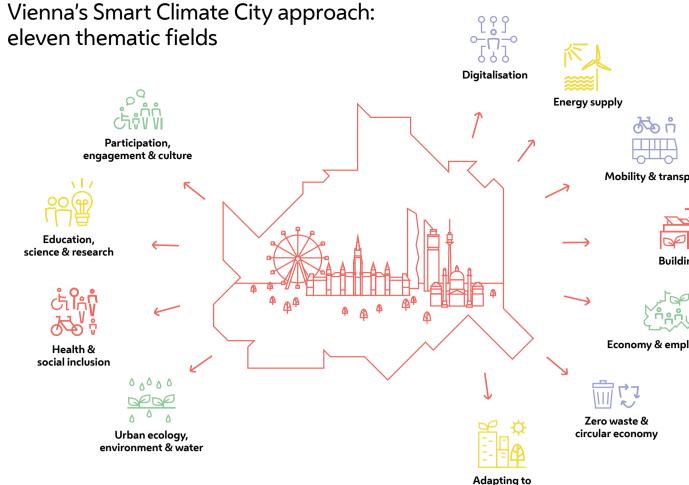












Participation engagement & culture

"Living labs" are created innovative new methods and processes and build networks of local stakeholders.

The City of Vienna supports projects that actively encourage cultural participation - from plain-language and multilingual outreach activities to



The City of Vienna continuously works on its participation standards in partnership with local people, and overall levels of public participation and engagement increase.



All social groups are empowered to play an active role in the co-creation and transformation of the city.



The opportunities for public participation offered by the City of Vienna are **visible** and accessible to all.



Vienna develops and employs various tools to give the public a say in budgeting and use of public funds.



By 2030, all processes and

services of the City of Vienna

that are of relevance to the public are digitalised and fully automated wherever possible.

Vienna has a needs-based

and resilient digital

infrastructure designed

to operate with maximum

resource efficiency.

of the **energy** requirement for digital services and infrastructures of the City of Vienna and its municipal enterprises will be covered by renewables, rising to 100% by 2040.

By 2030,

75%



The City of Vienna is a pioneer in the field of digital participation and uses digital tools to create transparency and promote active democracy and public involvement in decision-making.



The City of Vienna creates an excellent pool of data and utilises this for decision-making and management purposes, as well as making it publicly accessible ("open government data").



The City of Vienna prioritises digital human rights and promotes digital literacy.

Mobility & transport

Non-fossil-powered vehicles as a share of new vehicle registrations rises to

100% by 2030.⁵

The share of journeys in Vienna made by **eco-friendly modes** of transport, including shared mobility options, rises to

85% by 2030 and to well **over 85% by 2050.**6

guarantee: It's easy to get around in Vienna **without**

40% by 2030

and 70% by 2040.7

the amount of parking available in public spaces **Buildings**

traffic within the municipal boundaries is largely **CO₂ free**

Buildings are used to generate as much **solar power** as possible.

Circular planning and construction to maximise conservation of resources is standard from 2030 in newbuild and refurbishment projects. Per capita final energy consumption for heating, cooling and hot water in buildings falls by

55% by 2030

and to **zero** by 2040.9

Vienna continues to provide an

adequate supply of high-quality

subsidised housing

to reduce the percentage of

people who are overburdened

by housing costs.

GROPOR

standard; active cooling systems are 20% by 2030 and 30% by 2040.8 The associated per capita CO₂ emissions fall by

Developers' competitions in the subsidised housing sector drive social innovations and new solutions for mitigating and adapting to climate change – especially greening measures.

Greening, shading and

passive cooling of buildings are

powered by renewables.

By 2040, at least 70%

of the building components, products and materials recovered from demolitions and major refurbishment projects are reused.

Vienna **promotes biodiversity.**

Economy & employment

Our heat supply will be 100%

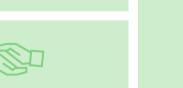
fossil free by 2040.

Energy

supply

The City of Vienna champions a sustainable urban economy by introducing appropriate legal frameworks and targeted subsidy schemes, by creating "living labs", and as a

public-sector client.



The City of Vienna and Viennese businesses establish a **climate** action alliance for the joint development of a sustainable urban economy.



job satisfaction of Viennese citizens constantly increase, while social inequality declines.

Renewable and

carbon-free energy

production in Vienna

increases threefold by 2030

and sixfold by 2040, compared

to 2005 levels.2



Products manufactured in Vienna are durable, easily reparable, reusable and recyclable, and their production processes are largely waste and pollutant free.

The productivity of Vienna's urban economy constantly increases, underpinnin

In 2030, Vienna has a **global**

reputation as the hub of a resource-

efficient circular economy and attracts

investment and talent in this sector.

Vienna's energy grids allow

for a decentralised.

renewables-based

energy supply.

the city's **prosperity**, resource efficiency and competitiveness.

and a further 10% by 2040.10

The material efficiency of the Viennese economy increases by 30% by 2030

To mitigate and protect against summer overheating, green and **open spaces** are newly created and existing ones expanded and structurally upgraded to improve the urban microclimate.



Greening measures, shading features and other installations in the public space substantially reduce the (perceived) ambient temperature in summer and provide the backdrop for vibrant, climate-proof neighbourhoods.



contribution to adapting

to climate change and

optimised where necessary

All citizens of Vienna have access to high-quality green space within a radius of 250 metres.



In Vienna, as much **rainwater** as possible is fed back into the local natural All planned buildings and or near-natural water cycle. urban developments in Vienna are assessed in terms of their



improves the urban microclimate especially in densely built-up areas.

In new urban development zones, provision is made for high-quality green public **spaces** at an early stage of the planning and design process.

Urban ecology, environment & water

> The natural functions of the soil are maintained through preservation of existing unsealed surfaces and creation of new ones.

The share of green space in Vienna is safeguarded for the long term at over **50%.**

> its growing population and to improve the urban microclimate.

Zero waste & circular



Food waste is cut by 50% by 2030 and reduced to a permanent minimum by 2050.





Health & socia inclusion



ageing – care-dependent Viennese or close to home for as long as possible.

Health literacy is improved at individual and organisational prevention.

Vienna offers high quality of life in all districts of

decision-making.



The **decarbonisation** of Vienna's healthcare sector is accelerated by prioritising measures to improve energy efficiency and conserve





promotes **gender equality** and opportunities for participation for all who live here.

Education, learning communities ("Bildungsgrätzln") by 2030 and the subsequent evolution into a Learning City will create learning spaces that are tailored to local neighbourhoods, communities and lifestyles -

International congresses, trade fairs and events increase the **global visibility** of Vienna's research excellence.

Vienna initiates large- scale missionled research and innovation projects as a contribution to the socio-ecological transformation.

sustainable, resource-efficient development is a standard teaching objective in all educational institutions.

Raising awareness of

Europe's top five research and innovation hubs and a magnet for top-flight international researchers and the research units of international corporations.

1 Including any utilisation of geothermal energy from the surrounding region. 2 Including any utilisation of geothermal energy from the surrounding region. 4 Baseline year 2005. 5 With the exception of special-purpose vehicles. 4 Baseline year 2005. 5 With the exception of special-purpose vehicles. 4 Baseline year 2005. 5 With the exception of special-purpose vehicles. 4 Baseline year 2005. 5 With the exception of special-purpose vehicles. 5 The wider definition of ecomobility encompasses walking, cycling and public transport plus shared-use schemes such as car sharing and car pools. 5 With the exception of special-purpose vehicles. 6 The wider definition of ecomobility encompasses walking, cycling and public transport plus shared-use schemes such as car sharing and car pools. 7 Baseline year 2005. 8 Compared to the average for the period 2005–2010. 9 Compared to the average for the average for the period 2005–2010. 9 Compared to the average for the period 2005–2010. 9 Compared to the averag







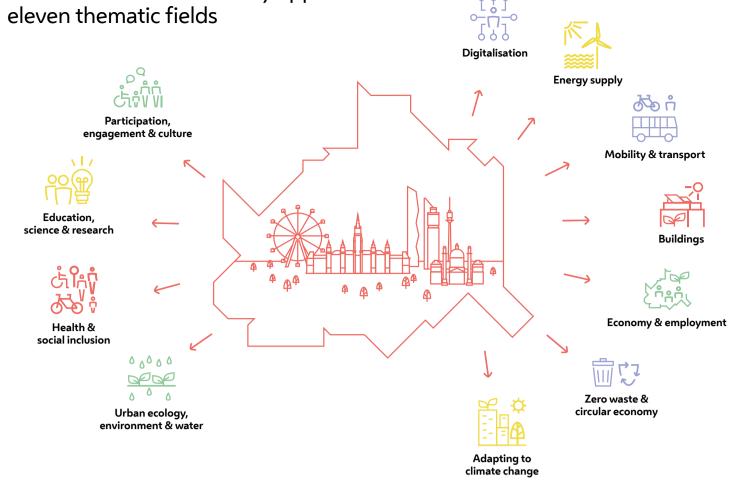


supported by multiple use of

buildings and spaces.

The city-wide roll-out of

In 2030, Vienna is one of



By 2030 half, and by 2040 100% of Vienna's final

energy consumption will originate from renewable

or carbon-free sources.1

a wide range of **free** events.

The volume of traffic crossing the municipal boundaries falls by 50%

by 2030.3

Vienna promotes and realises the concept of the 15-minute city – with short distances to services and amenities, lively, mixed-use neighbourhoods and **redesign** of streets to provide more space for active mobility options, public transport and pleasant places to linger.

Mobility

energy consumption in the transport sector falls by owning a car.

Per capita final

Per capita CO₂ emissions

in the transport sector

50% by 2030

and 100% by 2040.4

250 vehicles per 1,000 inhabitants by 2030, and

is gradually reduced.

Commercial

Private motor vehicle

ownership falls to





surrounding region, preferably from organic producers supplemented by urban agriculture.

Vienna's water supply

and waste water managemen

infrastructure is maintained and

operated to a high standard and

in a resource-efficient manner.

In the interests of people's health and well-being, air water and soil pollution noise and heat pollution and **light pollution** are all **minimised** as far as possible.

Vienna creates additional new woodlands and green spaces as recreation areas for



Less waste is produced

thanks to a wide range of waste

prevention measures.

Vienna's waste management system

achieves **net zero** by

2040.



100% of Vienna's non-avoidable waste is **recycled.**





level - Vienna focuses on health promotion and disease

the city - by investing in public infrastructure and mitigating & adapting to climate change, strengthening community cohesion and providing a wide range of opportunities for public involvement and participatory





All social groups, especially vulnerable ones, are **protected** against the health risks associated with climate change.

science & research



Education and qualification programmes cater for changed occupational profiles to foster new smart **technologies** and practices and support career choices that break with traditional gender roles.

Buildings become sources of green power

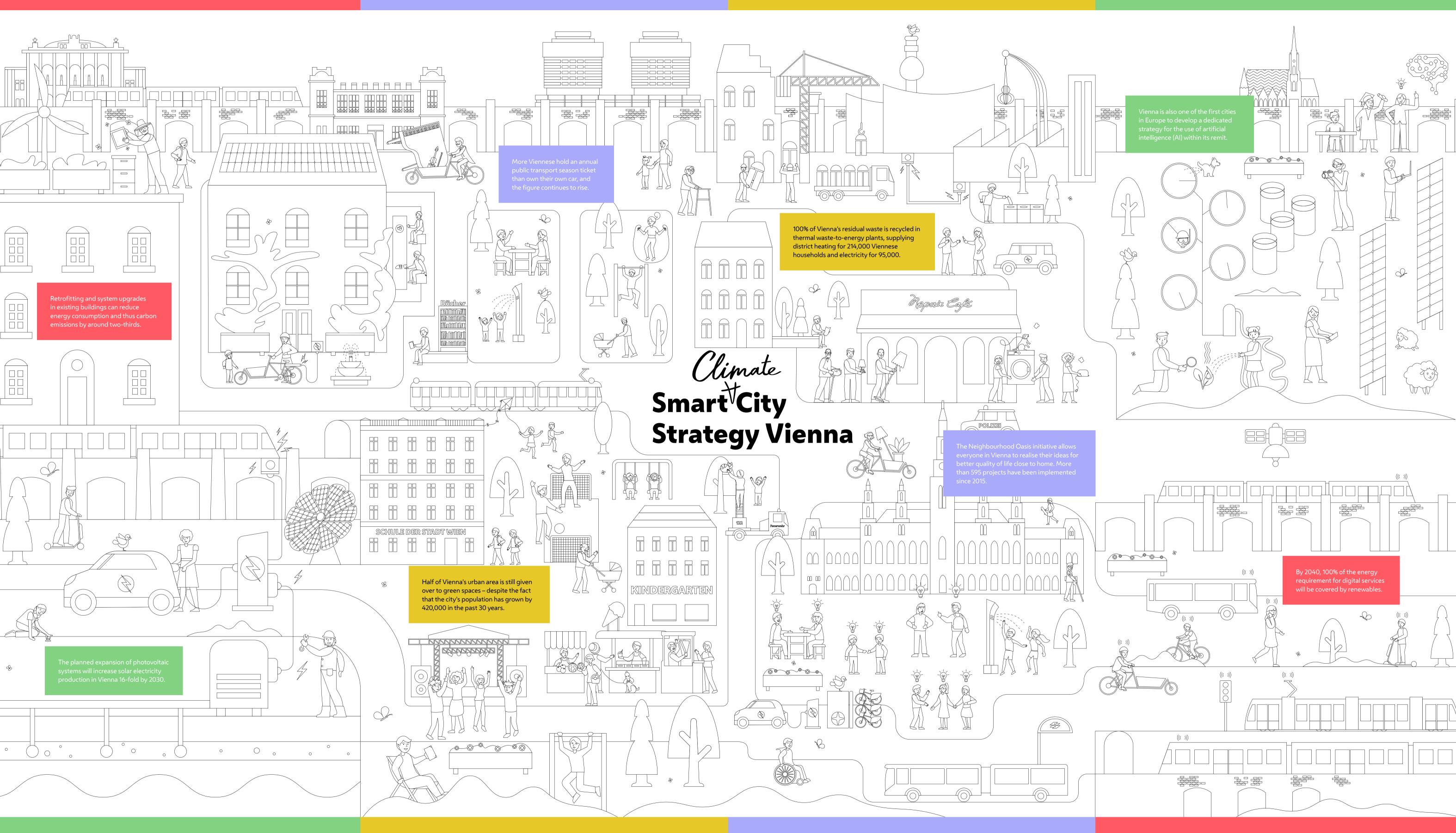
- through solar energy installations on roofs and facades
- through efficient heating systems and state-of-the-art building materials and techniques
- with greened roofs and facades that improve air quality and mitigate traffic noise
- with greening measures that provide a habitat for bees and other insects

Streets become outdoor living-rooms

Waste is a source of valuable raw materials

- through urban mining in the construction sector
- with products that are developed in line with the principles of the circular economy durable, reparable, reusable and recyclable
- with waste management systems that focus on waste avoidance, recycling and utilisation of waste heat from thermal waste processing

Vienna's expertise is an international bestseller



Vienna runs on clean energy

- by using the "waste" heat constantly generated by production or data storage facilities to
- systems powered by geothermal energy from up to 3000 metres below ground

Urban neighbourhoods are a microcosm

- with all local services and amenities within walking distance
- thanks to a green infrastructure of shady parks and green spaces on the doorstep and climate-proof redesign of local streets and squares
- with local networks of educational institutions
- with sports grounds and other outdoor spaces available for leisure activities outside opening hours

Vienna is a city of 1000 ideas & initiatives

Digital data are an urban tool

- thanks to smart energy grids that reduce energy consumption and optimise networks of energy producers and consumers
- thanks to the development of a "digital twin", i.e. a complete digital replica of the city, incorporating data from a wide range of sources to flag up potentials for reducing carbon emissions
- with sensors, digital platforms and apps offering improved mobility options and facilitating smart traffic management