We research for the cities of the future.

Intelligent cities, in which resources are handled responsibly, in which life and work are ecological and cozy, in which traffic and mobility are intelligently regulated, and in which thinking about electricity does not stop at the power outlet.

We combine our technological competence in the energy sector with our expertise in planning and management of the built environment; we consider technical, environmental, economic, socio-cultural and political issues in an integrated way in order to help make a city sustainable and worth living in.

**Technology for People.**

**Research Focus Point: Energy and Environment**

The Vienna University of Technology is a competent partner for all present and future energy related and environmental issues. The „Energy and Environment“ Research Centre identifies inter-faculty competences for research partners and customers. It helps the university researchers address complex technical and social issues in transdisciplinary research teams in order to develop holistic solutions.

„Smart City“ is developed through the expertise within the E+E-research fields.
Technological Components and the Entire System.
The expertise of TU Vienna ranges from the excellent development of individual „components“ of a Smart City to analysis, planning, evaluation and optimisation of the complex and dynamic Smart City „holistic system“. We ask ourselves what an intelligent and decent city of the future should look like and apply our technologies to help bring this about.

- ecological buildings
- efficient settlement structures
- comfortable interior and urban climate
- energy autonomy
- building automation
- integral development and planning

Sustainable Mobility and Transport Systems
- ecological and social sustainable transport planning
- intelligent traffic control and measures
- traffic safety
- multi-modal street design and planning
- infrastructures for e-mobility

Efficient Energy Supply and Infrastrukture
- intelligent and secure electrical grids
- intelligent thermal grids
- renewable energy systems
- supply security
- green and efficient information technologies

Intelligent Buildings and Settlements

Holistic Aspects
- resources, life cycle, urban metabolism, ecological perspectives
- social environment perceptions, user behaviour, demographic and cultural aspects
- economic energy and environmental policy, cross-border perspectives
- participatory processes, management strategies, business models

Interdisciplinary Research for Smart Cities.
More than 20 professors from eight faculties and their employees, organised in 19 research groups, deal with topics relevant to an intelligent city of the future. Learn more about the fields, the researchers, the questions they try to tackle, and the solutions they offer at:

http://energiewelten.tuwien.ac.at/research/smartcity/EN