

SUSTAINABILITY AND EU ENVIRONMENTAL GOALS

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SELECTED PROJECTS

Shaping the Future

According to the United Nations, the construction sector is responsible for 38 percent of global greenhouse gas emissions. One tenth of this is attributable to actual construction activity. It accounts for around 50 percent of global demand for cement, 30 percent for steel and over half of all waste.

As one of the largest engineering and consulting companies in the fields of environment and infrastructure, CDM Smith has a special responsibility to protect the environment and to maintain and continuously improve our living conditions. We face up to this in our daily work – as a company and in our client projects.

Environmental – Social – Governance

CDM Smith's activities are pioneering in many respects. Our projects in the business areas of water, environment, infrastructure, energy and buildings help to ensure that the environment, economy and society retain their essential functions. With the majority of our services, we directly support the economic activities of our clients that fall under the environmental objectives of the EU taxonomy: We evaluate and optimise the sustainability of project planning, balance the environmental impact of construction measures and calculate variants to reduce the ecological footprint. We develop strategies for adapting to climate change, create recyclable design concepts and support our clients with the certification of their projects. The careful use of resources and the protection of ecosystems are always an integral part of our actions.

Together with our clients and business partners, we are thus achieving the global sustainability goals within the European Union's environmental, social and governance (ESG) framework.



POWER GRID FOR THE ENERGY TRANSITION

Battery storage Kupferzell, Germany

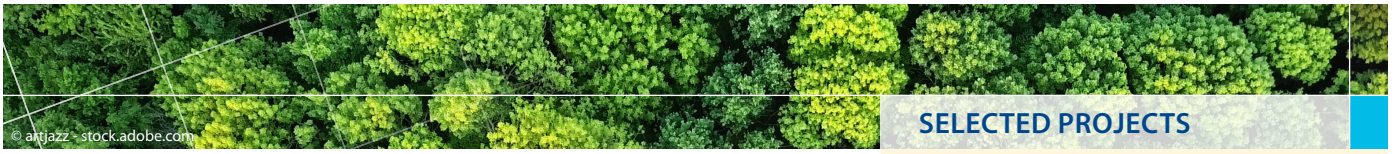
- Planning approval procedure
- Design and construction of infrastructure, foundations and operations buildings
- Landscape planning and design
- BIM modeling of the future grid repeater site
- In this project, CDM Smith 2023 received the ICPMA Sustainability Award for outstanding performance in project management



RENEWABLE ENERGIES – GEOTHERMAL ENERGY

Energiy pile system FH Bielefeld, Germany

- Preliminary geothermal exploration
- Design and implementation planning
- Approval management
- Construction supervision



Our Services

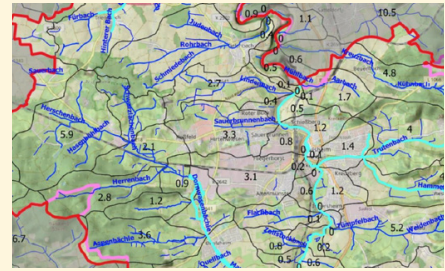
The greatest leverage for achieving the EU's environmental goals lies in our projects. That is why we have brought together a wide range of technical disciplines under the umbrella of sustainability at CDM Smith. In interdisciplinary teams, we develop forwardlooking, economical solutions for our clients and continuously develop our knowledge.

Our services include:

- Feasibility studies
- Environmental reviews and audits
- Advice on the EU's environmental, social and governance framework and taxonomy
- 6D BIM planning: life cycle analyses, life cycle assessment, determination of CO₂ footprint and CO₂ shadow price
- Technical planning for near-surface geothermal energy, activation of construction components, ground-mounted photovoltaic systems, foundations and infrastructure for wind turbines, deep degassing of landfills, power lines, storage and distribution stations
- Flood protection, heavy rainfall management, climate risk and vulnerability assessments, dealing with geohazards
- Resource-optimised planning and recycling (cradle to cradle), raw materials passport/register, waste and material flow management, waste management concepts, landfills
- Water supply/development, drinking, process and wastewater treatment/preparation, water distribution/storage, water resource management, rainwater management
- Soil and water protection concepts (renaturation, fish passage), pedological, ecological and environmental construction supervision, groundwater remediation
- Brownfield redevelopment (remediation of contaminated sites, building demolition, building pollutants), refurbishment, indoor pollutants
- Support for sustainability certifications (BREEAM, DGNB, Envision, LEED)
- Public engagement and public relations work

CDM Smith is in close contact with public and private clients as well as the supervisory authorities and professional associations in the countries in which we operate. In the spirit of the global partnership for sustainable development, we support them with information events and training on technical issues relating to environmental protection and sustainability, legal regulations and guidelines.

SELECTED PROJECTS



ADAPTING TO CLIMATE CHANGE

Heavy rain concept Crailsheim, Germany

- Hydraulic hazard analysis
- Risk analysis
- Preparation of action plan



CLIMATE PROTECTION AT LANDFILLS

Landfill Kirschenplantage, Germany

- Determination of GHG savings potential
- Degassing and gas collection concept
- Heat recovery and cost schedule



RENEWABLE ENERGIES – WIND POWER

Wind farm Halde Brinkfortsheide, Marl, Germany

- Foundation investigation
- Landscape conservation plan
- Approval procedure
- Project management



listen. think. deliver.

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