

A photograph of two construction workers wearing orange high-visibility jackets and hard hats, standing on a metal staircase. They are looking towards the right. The background shows green foliage. On the left side of the image, there are three overlapping blue rounded rectangular shapes of varying sizes.

OUR SOLUTIONS
improving the quality of life and
helping the environment

CSDENGINEERS 
INGENIOUS BY NATURE

CSD AT A GLANCE

03 EDITORIAL

04 | 05 WASTE AND DECONTAMINATION

06 | 07 WATER

08 | 09 ENERGY EFFICIENCY

10 | 11 CHICLAYO WASTE MANAGEMENT

PUBLICATION DETAILS

CSD Management | Fribourg | Weissgrund Kommunikation AG | Zurich

Layout: starfish communication factory | Pully

Print: Imprimerie Saint-Paul | Fribourg

Photos: CSD | Matthieu Gafsou | Hugues Siegenthaler | Skat Consulting Ltd. | Moldavia | Antonio Escalante

Evelyn Merino | Pollexnihon | Atelier 5 | DDS & Partner | caimmo

Printed on 100% recycled paper



Olga Darazs

President of the Advisory Board



Jean-Pascal Gendre

President of the Management Board

LET'S SHAPE THE FUTURE!

Dear Reader,

Optimism, and pioneering courage, have characterised CSD since its beginnings in the 1970s. Ever since, CSD has pursued its mission of improving the quality of life and the environment. The ability to innovate, and to incorporate a multitude of disciplines, is based on the common experience of an international network rooted in and corresponding to local characteristics.

As engineers, we are key actors for the world of tomorrow. In an environment where human activities have crossed the tolerable limits of our planet, our commitment to the environment and to the improvement of quality of life since the founding years has become more important than ever.

In addition to inventiveness, we draw on the experience of our international network with strong local connections. On the following pages you will discover our solutions for shaping the future.

Yours sincerely,

Olga Darazs

President of the Advisory Board

Jean-Pascal Gendre

President of the Management Board

WASTE AND DECONTAMINATION:

Experience and expertise in sensitive areas

Almost 50 years of experience

At both local and national levels, CSD supports the development of a legislative and institutional framework adapted to the needs and potential of the country, by leveraging experience developed both in Switzerland and abroad.

Development 4.0

The introduction of new technologies in development projects offers opportunities for better management: GPS, GIS, use of mobile phones or tablets, databases, etc.

Expertise in waste management

CSD advises and supports municipalities in the planning, organisation and optimisation of public and private services for the collection of household waste, its treatment and disposal, and urban cleaning.

Hazardous waste

CSD offers tailor-made solutions for the handling of hazardous waste in the health and industrial sectors.



Cost reduction and financial safeguards

CSD demonstrates cost-reduction potentials to municipalities, and helps them to find ways to finance their projects and to protect their investments.

Investigating sanitation solutions

By leveraging its considerable experience, CSD proposes solutions adapted to local priorities and possibilities in terms of reducing the pollution levels of sites contaminated by dumping or industrial activities.

Encouraging sorting

Technical and financial training for municipal employees, emphasising the value of, and legitimising, informal networks.

Professional training

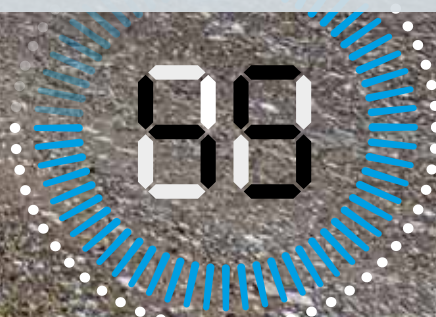
CSD develops comprehensive training programmes for technicians and professionals active in the sanitation sector, and provides online and real-life training.

Needs analyses

Transport infrastructures and waste-product treatment is adapted to local conditions from a technical, legal and cost perspective.



0000000000



For a summary of our services, go to www.csd.ch/en

WATER: from natural resources to the urban water cycle

A partner you can rely on throughout your project

Combining engineering and institutional solutions for water-related projects is one of CSD's key priorities. Our water professionals provide comprehensive services in consultancy, design and implementation to create sustainable water solutions.

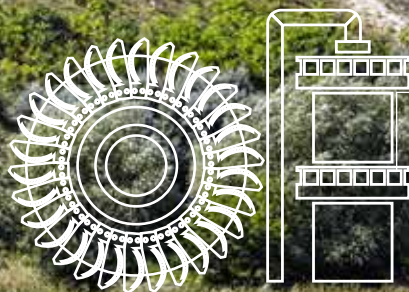
Sustainable water systems

A major challenge for current and future generations is the management and wise use of natural water resources and the implementation of efficient water infrastructure. It is about understanding the impact of multiple characteristics to ensure sustainable water projects.



Extensive range of competencies

Our services cover natural water resources and the entire urban water cycle with its specific infrastructures. In the water and sanitation sector, CSD offers services in the areas of integrated water resources management, drinking water treatment and distribution, water loss management including the rehabilitation of water supply systems, urban drainage systems, wastewater treatment and energy optimisation of water systems.



Improving the energy efficiency of the water infrastructure

Water supply or wastewater systems: thanks to many years of experience in the water and energy sectors, we can support our clients and beneficiaries in improving the energy efficiency of their water infrastructure.

Enhancing local capacities

CSD develops and delivers technical training courses adapted to the local context and personnel. Our services contribute to building or developing local capacities that help to improve community-led service delivery and access to safe water supply and sanitation.



For a summary of our services, go to www.csd.ch/en

ENERGY EFFICIENCY: a big-picture vision

An aerial photograph of a city, likely in Italy, showing a mix of residential buildings and industrial areas. A large industrial facility with several tall storage tanks and a complex network of pipes is highlighted with a red and yellow wireframe. The facility is situated in a valley, with a road and greenery in the foreground and a dense urban area in the background. The title 'ENERGY EFFICIENCY: a big-picture vision' is overlaid at the top.

Energy efficiency in buildings and industrial processes

There is still a high level of energy consumption in buildings and industrial processes. CSD offers its support to public administration agencies, as well as to service and industrial companies, in diagnosing and selecting appropriate energy strategies.

Independent energy consultancy provided by engineers

CSD offers advice on how to cut emissions, and provides effective support in obtaining certification and achieving emission and cost reductions.



Spatial planning

This includes energy concepts for spatial planning and leveraging the potential of renewable energies.

Sustainable energy supply

CSD performs analyses and audits, indicating possible ways to reduce energy consumption and CO₂ emissions. CSD supports companies in establishing target agreements with the authorities.

Services in all energy-related fields

From production to supply, and energy efficiency to distribution, CSD is actively involved in major development projects in Switzerland and abroad in the areas of renewable energy sources, heat recovery from water, and district heating.

For a summary of our services, go to www.csd.ch/en

CHICLAYO

waste management





Our commitment to creating a clean city

Efficient waste management and keeping a city clean are among the key factors contributing to the quality of life. However, there are many conurbations across the world that still show high potential for improvement in this area, in terms of collecting and sorting domestic garbage, providing proper treatment of urban or industrial waste, improving the financial management of public services, and other activities. CSD is sharing its experience in this field with government authorities and populations in different regions of the globe and, as a result, enjoys the confidence of institutional and non-governmental organisations alike.

Commissioned by SECO (Switzerland's State Secretariat for Economic Affairs), CSD is supporting the Peruvian city of Chiclayo (population 260,000) in setting up a system for managing its waste in an efficient and sustainable manner. The provision of state assistance and logistics support, as well as the training of technical and financial experts, is intended to improve public services. This is a basic condition for the construction and sustainable operation of a regional landfill on the one hand and for the gradual development of urban waste recycling on the other. As a national pilot project, Chiclayo will be used as a benchmark for improving the quality of life of Peru's city-dwellers.

10

11

Views of the project team

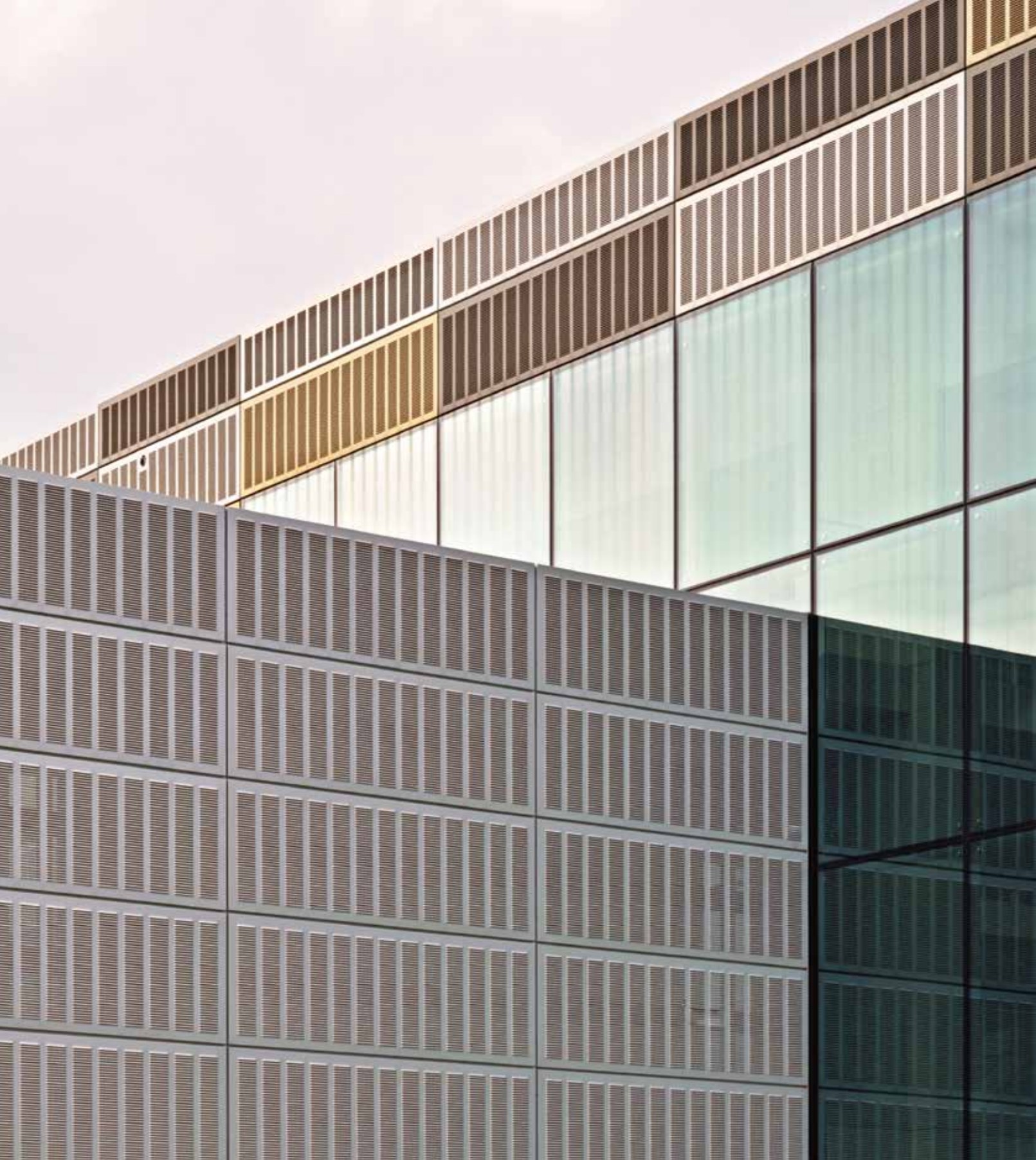
"Thanks to our commitment, the local authorities have made waste their priority concern," enthuses Emilie Gex, Project Manager. Introducing a professional management approach, along with setting up suitable infrastructures and promoting an awareness campaign, mark a major first step towards a cleaner city. "This 'textbook' operation will enable the Peruvian authorities in the medium term to provide models and indicators of good management and to help develop the institutional framework."

"Whether it involves planning, training local personnel or organising requests for tenders, our project-management skills help us to contribute to improving the inhabitants' health and the quality of life in the city of Chiclayo."

David Fernandez, engineer and head of the local team

"My desire as a citizen is to see a city full of creativity instead of plastic, which can preserve its cultural and natural inheritance for the benefit of future generations."

Heinz Plenge, photographer and resident of Chiclayo



In the areas of environment, construction and energy, CSD provides consulting services and develops cost-effective solutions that improve the quality of life and the environment.

The CSD Group has more than 700 employees at 30 locations across Europe.

Branch offices and references: www.csd.ch/en