



STATEMENT OF QUALIFICATION

Environmental, Health and Safety (EHS) and Energy
Consulting & Engineering Services



Anew Global Consulting

TABLE OF CONTENTS

1. Who We Are

2. Our Services

3. Featured Projects



Our Story



Anew is a professional environment, health, safety and energy conservation consulting service firm. Our firm is comprised of highly qualified scientists, engineers and management professionals. We cultivate international and local best practices. We provide exceptional solutions for leading multinational corporations, governments and international organizations throughout China and other regions.

For more information:

<http://www.anewglobal.net/>



Anew Global Consulting



Our Key Service Areas

We provide sophisticated and professional service with the highest industry standard. We aim to help our clients stay tuned with legislation, reduce operational risks and increase brand value by designing and deploying customized solutions in a professional and creative manner.

01	Strategic EHS Management and Solutions	02	Environmental Management and Engineering	03	Energy Management & Energy Conservation	04	Health and Safety Management
■	Corporate EHS Management	■	Industrial Water and Wastewater Management	■	Corporate Energy Strategy	■	Chemical Risk Management
■	Supply Chain EHS Management	■	Air Emission Monitoring and Pollution Control	■	Industrial Energy Efficiency Technology	■	Industrial Hygiene Management
■	Merger & Acquisition Due Diligence	■	Waste Management and Minimization	■	Comprehensive Energy Conservation Consulting	■	Explosive Dust Risk Management
■	EHS Regulatory Consulting	■	Soil and Groundwater Investment and Remediation				
■	EHS Compliance Audits						

1 Strategic EHS Management and Solutions

Our EHS specialists help our clients in diverse industries to identify, manage, and mitigate risks and liabilities. We have firsthand experience in solving EHS challenges that large corporations face due to their diverse and complex supply chains. By working with our clients to create practical and results-driven solutions, and assisting them with program implementation, we become close partners throughout the journey and deliver measurable outcomes.



EHS Regulatory Consulting and Audits

- EHS compliance audits
- Regulatory consultation and permit applications
- Emergency response & preparedness plan



Merger & Acquisition Due Diligence

- Global EHS Due Diligence
- Environmental site assessment
- Post investment environmental risk mitigation and monitoring
- Green-credit bank loan consultation and assessment



Corporate and Supply Chain EHS Management

- EHS strategy planning
- EHS baseline survey & gap analysis
- EHS initiatives
- Program design and execution
- One-on-one and onsite EHS assistance and capability building



Featured Projects

EHS Regulatory Consulting and Audits



EHS Regulatory Checklist Development

Anew's professionals developed tabulated EHS regulatory checklists for more than five multinational companies. This included full text and key clause citation, and for those companies with multiple manufacturing or research facilities, checklists that were customized to specific operations, programs, permits, and policies.

Client: 5+ Leading Multinational Companies

EHS Regulatory and Permit Training

In order for our clients' top management teams to improve their background on Chinese laws, regulations, and related EHS permitting processes, Anew developed written training materials on EHS regulations and permit guidelines and provided in-person trainings. These trainings and materials improved the top management's ability to understand recent regulatory changes and allowed for more effective company strategic development.

Client: 5+ Leading Multinational Companies



Featured Projects

Corporate and Supply Chain EHS Management



Corporate EHS Management

Anew developed a comprehensive EHS management system and provided the relevant trainings to the client and its employees. In doing so, we also integrated an overarching EHS corporate strategy into the on-the-ground work that was being implemented.

Client: A Global Leading Software/Hardware Company

Environmental Troubleshooting and EHS System Establishment

A production factory for a Chinese battery material company was shut down due to environmental non-compliance as issued by the Chinese government. The Anew team was brought in to identify the environmental issues, establish an EHS management system, and assist the client in restarting its production. In doing so, Anew helped the client review its evaluation reports, negotiated with the technical suppliers and the local government for the necessary official approval, prepared EHS documents, and trained the client's staff. The site gained approval by the government, allowing it to restart production after a short period, and minimizing its costs due to disruption of manufacturing.

Client: A China Battery Material Company



Featured Projects

Merger & Acquisition Due Diligence



Environmental Due Diligence Evaluation

Anew professionals have conducted environmental due diligence (EDD) assessments at more than ten sites of a leading auto parts company in China. Each EDD included review of historical and environmental records, research on local laws and regulations, site surveillance, and interviews with regulatory authorities and site personnel.

Client: A global leading Automotive Parts Manufacturing Company

Pre-Acquisition EHS, Labor and Social Due Diligence Evaluations

Anew professionals have conducted pre-investment DDE, comparing these to the World Bank/International Finance Corporation (WB/IFC) and Equator Principles II (EPII) Guidelines for potential investments by private financiers to various facilities throughout China. Such cross-industry experience connects perception of EHS risks with financial implications.

Client: A Painting Shop in Chengdu



2 Environmental Program Management and Engineering

Anew provides technical consulting services to help our clients solve compliance issues and save costs. Relying on extensive engineering experience, Anew's professionals have implemented a number of projects that have been recognized for their success.



Industrial Water and Wastewater Management

- Troubleshooting for compliance discharge
- Effective water use and wastewater/sludge minimization
- Assessment of balancing initial capital investments with life cycle costs



Waste Management and Minimization

- Supply Chain Waste Data Management
- Reduce, Reuse and Recycle of the Solid Waste
- Hazardous Waste Reduction



Air Emission Monitoring and Pollution Control

- Industrial Air Pollutant Monitoring
- Indoor Air Quality Monitoring
- VOC Emission Control



Soil and Groundwater Investment and Remediation

- Environmental Site Assessment
- Soil and Groundwater Contamination Risk Assessment
- Soil and Groundwater Remediation

Industrial Waste and Wastewater Management

Anew's engineers provide a variety of services that are customized to our clients and their needed application. From initial planning to financing, commissioning and startup, Anew takes responsibility for the entire process through innovative approaches.



Integrated Water Management

Create the most effective and efficient water and wastewater systems to enhance production while also meeting overarching compliance, technical, and business goals.

Optimize existing processes and systems to reduce water usage and maximize asset performance.



Facility and Process Planning

Identify and evaluate capital assets that are flexible, minimizing the potential for obsolescence. Robust process and facility planning ensures the system constructed meets each business's technical and commercial demands.



Technology Selection

Develop, evaluate, pilot test, design, build, and commission facilities ranging from single unit process systems to complex integrated systems matching water supply and wastewater treatment.



Featured Projects

Industrial Water and Wastewater Management



Electronic Supply Chain Clean Water Project

Anew professionals supported a leading consumer electronics company in managing its supply chain with more efficient water and wastewater practices. We were involved in the entire process, from program design to execution and follow-up reporting. Additionally, we provided over 100 suppliers the relevant technical assessments and trainings for water conservation, wastewater management, stormwater management, and wastewater treatment system operations,

Client: A Leading Consumer Electronics Company in Shanghai

Design Review and Construction Management of WWTP

Anew professionals provided design review and construction management of a 400 m³/d wastewater treatment plant that was used to treat the industrial and sanitary wastewater from a dairy production facility. Physical and biological treatment processes were applied to this system.

Client: Guangzhou Dairy Production Facility



Waste Management and Minimization

Anew professionals have provided quite a number of innovative waste management services to governments and private companies. Whether our contracts are for large-scale program management or small project execution, we deliver cutting-edge products and services that meet the expectations of our clients worldwide.



Integrated Waste Management Planning

- Waste forecast development
- Waste collection and transfer assessment
- Recycling and materials recovery impact evaluation
- Economic feasibility and alternative financing studies



Industrial Waste Management

- Characterization
- Sampling and laboratory techniques
- Risk management
- Waste reduction, reuse, and recycling studies



Hazardous Waste Reduction

- Reduction opportunity studies
- Reduction facilities design and construction

Featured Projects

Waste Management and Minimization



Zero Waste to Landfill Program

Our client requires its suppliers to progressively adopt a zero waste strategy through enhancement of waste reduction, reuse, and recycling. Anew provided technical support to our client's suppliers, including a baseline assessment, training, waste reduction, reuse and recycling opportunity identification, and monthly waste data review and tracking.

Client: A Leading Consumer Electronics Company

Hazardous Waste Minimization Analysis Program

Anew identified hazardous waste reduction opportunities at our client's selected supply facilities. Additionally, Anew worked with our client and these selected suppliers to undertake hazardous waste reduction studies and pilot tests, including technical evaluations and return-on-investment (ROI) analysis. This helped suppliers reduce the quantity of hazardous waste disposal, and thus operational costs.

Client: A Leading Consumer Electronics Company



Featured Projects

Waste Management and Minimization



Waste Liquid Reduction - Evaporation System Feasibility Study and Conceptual Design

Printed circuit board (PCB) production is comprised of multiple steps: etching, plating, and periodically discharging concentrated liquid from plating tanks. The concentrated liquid has a high COD and heavy metal content, classifying it as a hazardous waste to be disposed of offsite. Anew performed feasibility studies and provided conceptual designs for hazardous waste treatment. With our help, our clients decided to implement the proper evaporation systems to treat the liquid waste, decreasing the offsite disposal of hazardous liquid waste, mitigating their negative environmental impact.

Client: Several PCB Companies

Sludge Reduction - Drying System Feasibility Study and Conceptual Design

PCB facilities generate large amounts of sludge that contain high levels of heavy metals, classifying it as hazardous waste. Because of insufficient infrastructure capacity for hazardous waste disposal in China, a number of PCB facilities cannot dispose of their sludge off-site in adequate time, leading to a buildup of sludge on-site. Anew performed feasibility studies and conceptual designs for sludge drying systems for our clients, improving their waste management practices and decreasing the costs of disposal.

Client: Several PCB Companies



Air Emission Monitoring and Pollution Control

Anew professionals are the top in their field for air emission monitoring system development and air pollution control engineering. We help customers collect data and conduct data analysis, identify potential problems in a timely manner, and provide multiple feasible solutions. Anew experts also have a deep understanding of the effects of VOC emission pollution treatment, and can help enterprises carry out wide-reaching project rectification and provide solutions for exhaust gas treatment.



Air Emission Monitoring and Mapping Program

- Fugitive air emission mapping and control
- Air emissions monitoring and data analysis



Air Emission Control

- Treatment system design and execution
- Treatment system evaluation and troubleshooting

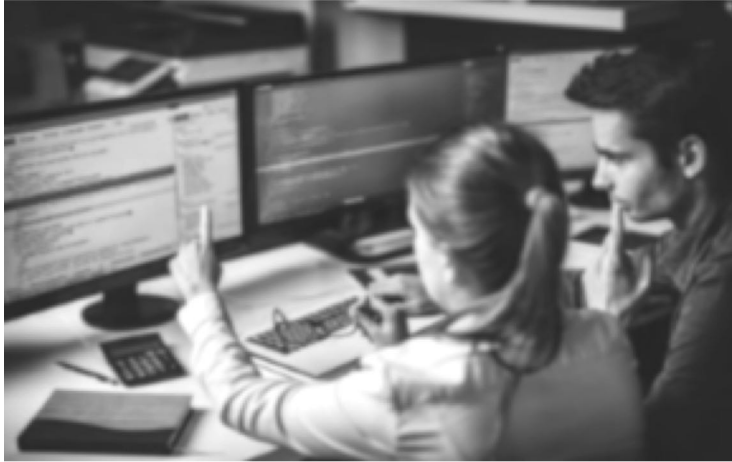


Air Emission Management

- Management system development
- Emission management training

Featured Projects

Air Emission Monitoring and Pollution Control



VOCs Monitoring and Mapping Program

Our client, an alcoholic beverage enterprise, was both troubled by the complaints of nearby residents due to unpleasant smells coming from the factory, and looking to understand its compliance with the newly issued, "Sichuan Emission Control Standard for Volatile Organic Compounds". Anew produced a detailed VOC emission monitoring plan, carried out the sampling, mapped the emissions, and identified emission sources. Additionally, we designed the necessary infrastructure for VOC controls based on the factory's needs.

Client: A Leading Alcoholic Beverage Company in Chengdu

Air Emission Management

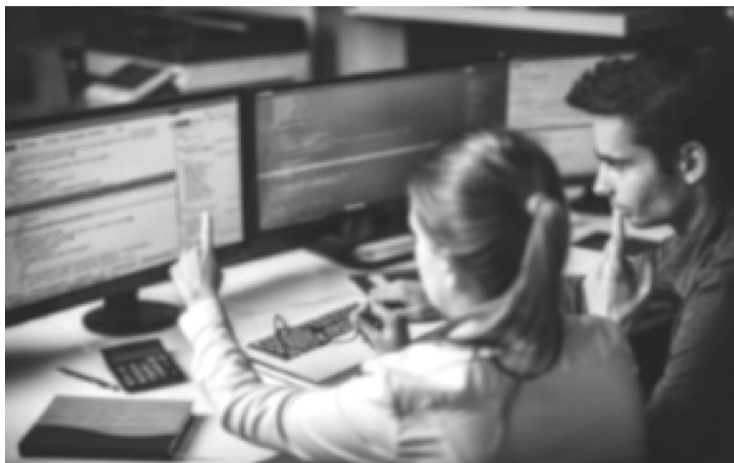
Anew professionals developed an industry-leading in-depth air emission assessment program for a consumer electronics company supply chain. This went beyond basic emission permit compliance, effectively reducing VOCs and acid mist emission quantities at targeted facilities throughout the supply chain. We carried out baseline assessments, provided technical support, and held trainings. These assessments and evaluations covered permitting and source identification, emission control, evaluation and monitoring, operation and maintenance, and emergency response.

Client: A Leading Consumer Electronics Company



Featured Projects

Air Emission Monitoring and Pollution Control



VOC Reduction Project

Anew conducted a conceptual design of three VOC control systems at a construction film production facility that has a total treatment capacity of approximately 100,000 m³/h. We developed the relevant process design, construction specification, system cost estimations, and implementation schedule forecast.

Client: *A Leading Construction Material Company*

Air Emission Management Project

A labor-intensive manufacturer in Chengdu uses toluene for coating operations. Anew conducted the project's overall risk assessment which included fire and explosion risk assessment, chemical toxicity assessment, on-site health hazard assessment, ventilation system performance assessment, and environmental discharge impact assessment. After implementing the project, the number of people exposed to highly toxic substances was reduced and the operational risk of the company was also reduced.

Client: *A Painting Shop in Chengdu*



Soil and Groundwater Investment and Remediation

Anew experts have conducted a range of soil and groundwater investigations, human health based risk assessments, and remediation projects, many of which use innovative processes and are categorized as demonstration projects in China.



Environmental Site Assessment (ESA)

- Phase I ESA
- Phase II ESA
- Phase III ESA
- According to either ASTM standards or Chinese guidelines



Soil and Groundwater Contamination Risk Assessment

- Human health based risk assessment
- Remediation cost estimates



Soil and Groundwater Remediation

- Remediation plan development
- Risk Control plan development
- Engineering execution

Selected Programs

Soil and Groundwater Investment and Remediation



Soil and Groundwater Contamination Risk Assessment

Our client planned to construct a police station at a contaminated site by a historical pesticide manufacturing facility. To investigate the extent of contamination, Anew professionals conducted a Phase II ESA. Based on the results of the assessment, we further developed a detailed sampling plan that included borehole locations, installation of groundwater monitoring and sampling wells, and a sampling plan of groundwater and soil. We also conducted a risk assessment of potential impacts on human health based on samples collected onsite.

Client: Police Station of Anji County, Zhejiang Province

Pollution Control and Ecological Remediation for Abandoned Mines

As a part of the local ecological restoration plan in Jiangxi province, Anew professionals conducted the preliminary design for an abandoned mine restoration that faced critical geological and environmental risks such as landslide, soil depletion, and river contamination. Included in the restoration plan were soil improvement, soil and water conservation, slope stability, and landscape design. This project was supported by the national eco-compensation fund.

Client: Environmental Protection Bureau of Xunwu County, Jiangxi Province



3 Energy Management & energy conservation

Anew also focuses on energy management and energy conservation consulting. We provide strategic consulting for corporations' master layout and support top management with comprehensive energy management approaches. Our integrated energy conservation plan, energy efficiency improvement technologies, and impact verification helps our clients achieve green operations throughout the life cycle.



Corporate Energy Strategy

- Energy consumption control and energy conservation policy consulting
- Energy efficiency audit and inspection
- Industrial energy management system
- Energy conservation manager



Industrial Energy Efficiency Technology

- Optimization of industrial energy system
- Surplus heat and pressure recovery and utilization
- EPC of small-medium energy efficiency projects



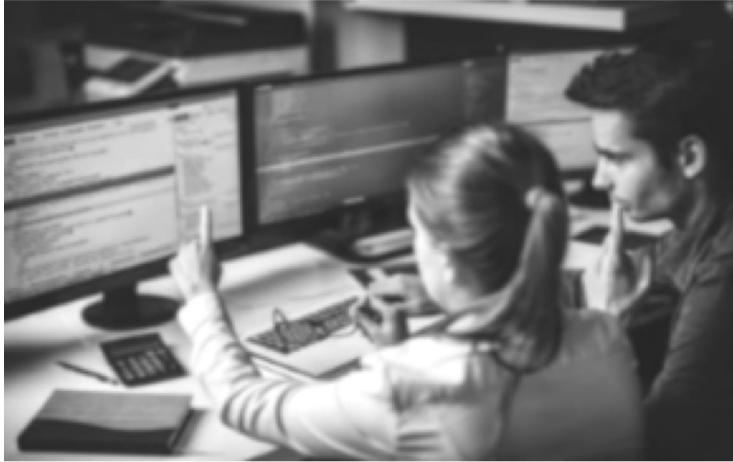
Comprehensive energy conservation Consulting

- Energy Performance Contracting
- Measurement & Verification Services
- Energy conservation evaluation and verification



Featured Projects

Energy Management & energy conservation



Energy Audit and Training for the Supply Chain of a Multinational Retail Corporation

Anew professionals conducted an energy conservation audit and effectiveness evaluation for a multinational retail corporation at more than 30 supplier facilities. Additionally, we provided energy conservation training to more than 100 suppliers.

Client: One Multinational Retail Corporation



Energy Audit and Technical Support for the Supply Chain of a Leading Consumer Electronic Company

Anew assisted a leading consumer electronics company in undertaking energy conservation audits at over 30 supplier facilities. We also carried out measurements and verifications of the energy conservation projects at several supplier facilities. Our professionals provided technical support to the suppliers that undertook these energy-saving projects.

Client: A Leading Consumer Electronics Company



Featured Projects

Energy Management & energy conservation



Building Energy Efficiency Design Review and Renewable Energy Project

We provided turnkey services, including the development of an energy conservation strategy, energy consumption simulation of the virtual building, efficiency analysis of energy conservation options, heat exchange conductivity testing, specification development for a geothermal heat pump system, and supervision and monitoring of the commissioning of energy conservation measures. By implementing various energy conservation and renewable energy initiatives, this project recorded a 43% reduction in energy consumption and a 63% savings in energy cost, with a combined investment payback period of 3 years.

Client: a Leading Electric Power Supplier

Conversion of Oil-Fueled Boiler to Gas-Fueled Boiler and Waste Heat Recovery

An existing oil-fueled boiler was replaced with a gas-fueled boiler to meet the needs of hot air supply for a protein dryer. Clean flue gas from the gas-fueled boiler created opportunities for waste heat recover and energy efficiency optimization. A variety of engineering options were analyzed and compared, and the project was extended to include management of the engineering, procurement, and construction of the entire project cycle.

Client: a US based protein Producer



4 Health and Safety Management

Anew's professionals have been working on health and safety research for the past several years and have established unique expertise in these fields. Our team of consultants, consisting of two CIHs and one CSP, can help customers identify hazards and risks in their facilities and provide risk rating assessments.



Chemical Risk Management

- Chemical inventory and mapping
- Chemical hazard evaluation
- Industrial hygiene monitoring
- Hazardous chemical handling and controls
- Chemical emergency response and prevention planning



Industrial Hygiene Management

- Ventilation system inspection, troubleshooting and assessment
- Concept design for local exhaust ventilation systems
- Industrial ventilation system construction and installation



Explosive Dust Risk Management

- Dust explosion risk review program design
- Security risk review reporting
- Management measures improvement suggestions



Featured Projects

Health and Safety Management



Manufacturing Restricted Substance List Program

Anew's professionals upgraded chemical inventory management for over 200 suppliers in the Asia-Pacific Region. These upgrades included PCB facilities, assembling facilities, electronic component facilities, and packaging facilities. We focused on MSRL compliance facilitation, webinar training (Chinese and English), compliance verification of MSRL throughout the supply chain, and onsite assessment for MSRL hazards and controls. This program also provided the fundamentals for the future chemical inventory procurement and macro management of the electronic supply chain.

Client: A Leading Consumer Electronics Company

Chemical Risk Assessment and Management

A leading consumer electronics company desired to carry out a chemical risk assessment and management project in the Chinese supply chain. Anew's professionals designed the project and implemented it in nearly 80 factories along the supply chain that employ over 1 million workers. This project included life cycle and management framework assessments of chemicals in a single supplier factory, chemical hazard assessment, chemical health and safety risk assessment, risk management of chemicals, health monitoring, training and emergency response.

Client: A Leading Consumer Electronics Company in Shanghai



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Compliance Audit

Due Diligence

GCA Audit

ESA

VOCs Control

HW Reduction

Measure & Verification

Chemical Management

EHS Regulatory Service

WWTP Design