



cinyde

**CONSULTORÍA INTERNACIONAL EN INGENIERÍA
Y GESTIÓN PARA EL DESARROLLO S.A.C.**



ENERGY ENGINEERING ●
ENVIRONMENTAL ENGINEERING ●
ENGINEERING PROJECTS ●
TRAINING ●

BUSINESS VALUES ///

CINYDE S.A.C. values which are implemented by our members are:

- | | |
|---|---|
| 1. Teamwork | 5. Identification of staff with the company |
| 2. Quality of internal processes and customer service | 6. Efficiency and effectiveness |
| 3. Upbeat to change | 7. Savings and investment |
| 4. Honesty | |



PRESENTATION

CINYDE S.A.C. is a private peruvian engineering consultancy company, specialized in energy efficiency and environment protection. It was created to provide other companies solving problems of how to reduce operating costs, increase productivity, achieve optimum standards of safety and the environment through eco-efficient use of energy and other resources, improving the management processes and procedures, as well as staff training.

COMPANY HISTORY

CINYDE S.A.C. was founded in 1995 by a group of former professional consultants from international organizations like the UN, EC, ICI, USAID, GTZ, who having accumulated nearly 10 years consulting experience in the fields of energy efficiency, environment, cogeneration and process, they decided to found CINYDE S.A.C. being supporting in areas of expertise to companies in the country and abroad.

MISION

“Being the leader in consulting on environmental conservation and energy efficiency, answering customer expectations through quality service and ongoing renewal of the company”.

VISION

“Providing quality consulting services with efficiency, allowing companies to reduce costs and improve productivity and environmental surroundings”.



MAIN SERVICES

ENERGY

Energy is an important component of these costs and CINYDE S.A.C. can help achieve savings (5 - 15%) in companies through the following services:

- Energy Conservation Studies (energy saving), to identify improvements for the efficient use of fuels, steam, compressed air, electricity and obtain economic savings through reduced fuel consumption.
- Improving the thermal efficiency of boilers, furnaces, dryers and internal combustion engines, through improved operation, combustion control, heat recovery, loss reduction and other improvements.
- Implementation of steam accumulator to reduce losses in steam generation and distribution.
- Cogeneration projects for generating electricity and heat together at a

- lower cost and greater autonomy.
- Efficient design of fuel, steam, water, cold, compressed air and air-conditioning systems, according to standards and energy efficiency.
- Loss reduction studies in energy distribution systems.
- Tariff studies to find the most appropriate electricity tariff to the company and reduce payments.
- Optimal steam, compressed air and electricity dispatch at the plant.
- Determination of optimum insulation thickness in steam and hot fluids systems.
- Material and energy balances in processes and plants to find energy losses.
- Evaluation of efficiency of thermal equipment.
- Selection of equipment for efficient energy use.
- Technical and economical analysis of improvements for efficient use of energy.
- Selection of boilers in terms of capacity, efficiency and service.
- Efficient boiler house design.
- Measurement of energy variables (kWh, gas flow, draft, temperature, etc).

NATURAL GAS

- Pre-feasibility and Feasibility Studies to analyze the technical and economic advantages of using natural gas.
- Selection, supply and installation of gas burners or dual (gas and fuel).
- Complete design of natural gas distribution systems.

ENVIRONMENT

GENERAL

- Environmental Impact Assessment (EIA), Environmental Impact Statement (EIS), Preliminary Environmental Assessment (DAP), Management and

Mitigation Environmental Program (PAMA), Environmental Audit, Strategic Environmental Assessment (SEA).

- Environmental Baseline Study.
- Clean Development Mecanism (CDM) projects.
- Visual and landscape impact assessment for certain projects.
- Abandonment plan of facilities.
- Emission inventories.
- Implementation of Cleaner Production.
- Determination of pollutant treatment systems efficiency.
- Waste incinerators assessment.
- Hazardous waste treatment systems assessment.
- Solid waste management assessment: inventory, characterization, storage, transportation, disposal, risk management plan.
- Design of solid waste landfills.
- Environmental risk studies.
- Permit discharge of sewage and waste disposal in DIGESA and NATIONAL WATER AUTHORITIE.
- Permit for use liquid fuels and gases, according to OSINERGMIN, DGH-MEM.
- Legal environmental advice.

AIR

- Measurements in chimneys: analysis of combustion pollutants, measuring speed and gas flow, temperature and ranges.
- Design of chimneys to ensure proper dispersion of exhaust gases.
- Determination of air pollutants: SO₂, NO_x, CO, H₂S, particulates (PM 10, PM-2.5, PTS), among others.
- Predicting air quality and noise level using software.
- Offensive odors and air emissions assessment.
- Measurement of sound pressure level (noise): LAeqT values, maximum, minimum.
- Measurement of electromagnetic fields produced by power plants and other sources.
- Measurement of meteorological variables: temperature, relative humidity, wind speed and direction, precipitation.
- Stack emission dispersion modeling using software (ISC3, AERMOD, CTDMPPlus).
- Noise emission dispersion modeling using software (CUSTIC, CADNA).





Sound level meter (integrator), EXTECH.
 Noise dosimeter, QUEST.
 Light meter, TESTO.
 Vacuum pumps, FURGUT, COLE PARMER.
 Digital cameras, PANASONIC.
 Binocular, TASCOS.

PERMISSIONS ///

CINYDE S.A.C. has the following permissions that enable to develop their studies in the environmental field and others:

Ministry of Energy and Mines: R.D. N° 852-2007-MEM/AEE and RD No.852-2007-MEM/AEE. Authorization to conduct Environmental Impact Studies.

Ministry of Production: Certificate N° 055-A. Authorization to conduct Environmental Impact Studies.

Ministry of Housing, Construction and Sanitation: R.D. N° 003-2007-VIVIENDA-VMCS-OMA. Authorization to conduct Environmental Impact Studies.

Ministry of Transport and Communications: R.D. N° 067-2008-MTC/16. Authorization to conduct Environmental Impact Studies.

Ministry of Foreign Trade and Tourism: R.D. N° 08-2009-MINCETUR/VMT/DNT. Authorization to conduct Environmental Impact Studies in tourism sector.

Municipality of Callao: Letter N° 013-99-MPC/DGPA-DCCA. Authorization to conduct Environmental Impact Studies in the Callao Province.

WATER ///

Determination of pollutants in industrial and domestic effluents: pH, BOD, COD, oils and grease, suspended solids, metals, organic compounds, etc.
 Studies for efficient use and conservation of water.
 Assessment of drinking water.
 Environmental flow studies.

SOIL ///

Determination of soil contaminants: sampling and analysis.

HEALTH AND SAFETY AT WORK ///

Comprehensive occupational health audits.
 Development of occupational health and safety programs in enterprises.
 Adaptation to national regulations on safety and health at work.
 Evaluation of worker exposure to contaminants in their jobs.
 Risk studies (health and property).
 Emergency plans.
 Handling of hazardous substances.
 Occupational measurements: Toxic gases, inhalable particles, noise, lighting, vibration, heat stress. humidity and temperature.

MAINTENANCE ///

Steam and hot water boilers.
 Steam and condensate piping.
 Provision of electromechanical equipment maintenance.

TRAINING ///

CINYDE S.A.C. performs maintenance of thermal plants in order to achieve not only their operation; but also energy savings, including:

Training courses on energy, environment, occupational health and safety.
 Technical publications such as manuals, procedures, leaflets.
 Operating training on topics of interest to businesses.

MEASUREMENTS ///

Analysis of stack gases (oxygen, carbon dioxide, carbon monoxide, sulfur dioxide, nitrous oxide).
 Process gas analysis (according to available methodology).
 Analysis of chemicals in the air.
 Determination of particulates in stacks.
 Temperature.
 Moisture.
 pH, water conductivity.
 Gas flow and velocity in pipelines or ducts.
 Liquid flow.
 Electrical variables (voltage, current, power, active and reactive power).
 Lighting.
 Magnetic fields.
 Sound level pressure (noise).
 Meteorological variables (temperature, RH, wind speed and direction, precipitation)
 Ventilation of working environments.
 Others on request.

EQUIPMENT ///

CINYDE S.A.C. has a range of equipment and instruments (with certificates of calibration), for the measurement of energy and environmental variables, such as:

Electronic gas analyzer (SO₂, NO_x, CO, CO₂, O₂), TESTO 350S.
 Electronic gas analyzer (CO, CO₂, O₂), TESTO 327-1
 Smoke tester, BACHARACH.
 Draft meter, BACHARACH.
 Gas velocity meter (Pitot tube), DWYER.
 Digital thermocouple, COLE PARMER.
 Ambient carbon monoxide detector, ToxiRAE3.
 Digital pH meter, HANNA INSTRUMENTS.
 PM-10 and PM-2.5 particles sampler, TECORA.
 Gas sampling train (SO₂, NO_x, H₂S, etc.).
 Digital anemometer, EXTECH.
 Automatic weather station (temperature, wind, relative humidity, rain), DAVIS.
 GPS, GARMIN.
 Electromagnetic field meter, EXTECH.

1775 Petit Thouars, Int. 803, Lince,
 Lima 14, Peru
 Telephone: (511) 3325624 - (511)
 4232382 / Fax: Ext. 102
 www.cinydesac.com
 E-mail: gerencia@cinydesac.com



cinyde

