

SIEMENS
energy

Emissions under control with the software solution **EMIDATE**

Smart and systematic recording and evaluation of emission data.



The software solution EMIDATE collects, monitors, evaluates and stores all emission related values and plant states.

This allows the monitoring of pollutants to permissible limits. The results are graphically visualized and stored.

Officially examined and certified

Based on Austrian laws and regulations as well as standards EMIDATE was developed in the 1980's with a goal to control emissions precisely.

The current version was

- Type approved by TÜV Austria according to ÖNORM M9412,
- MCERT certified by SIRA,
- Certified according to EN14181 by Synlab.

Emidate is compliant with

- LCPD (Large combustion plant directive)
- WID (Waste incineration directive)

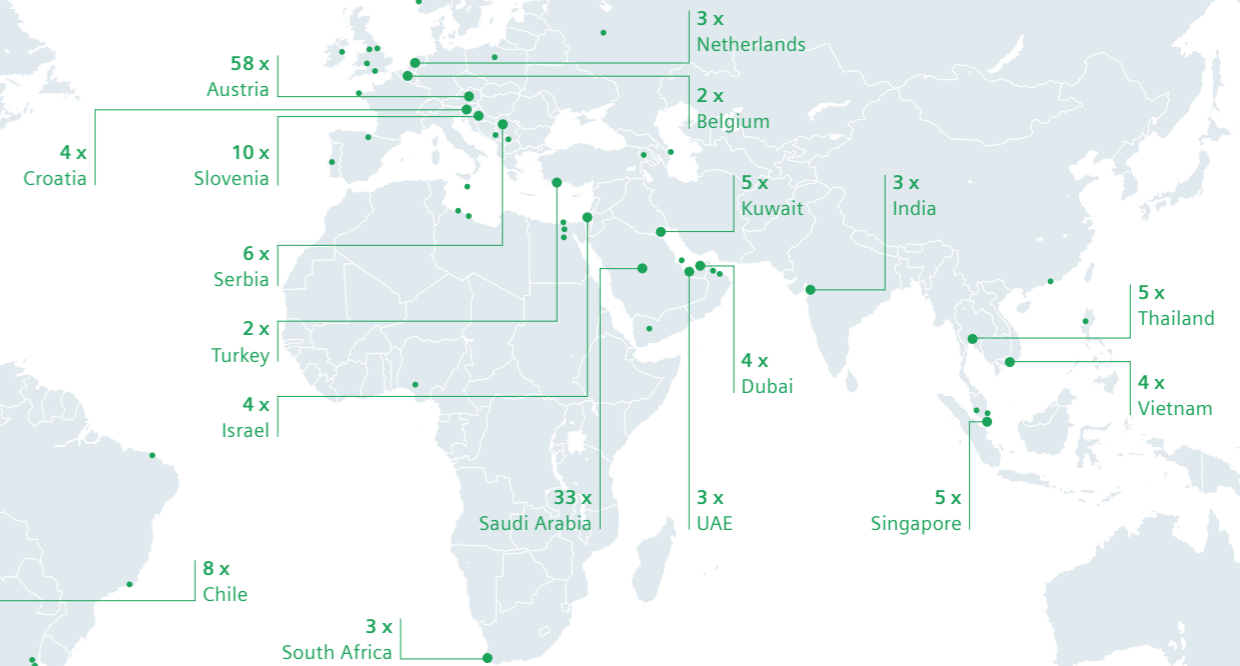
Modular system

The system is modular, relies on proven standard components and can be upgraded smoothly. Therefore, it can be easily adapted to fulfill non-standard requirements of customers and authorities.

The data acquisition is primarily achieved via the industry-standard Ethernet. As peripheral components SIMATIC devices of all generations with ethernet interfaces can be used. Using a SIMATIC CPU as gateway enables EMIDATE the use of all systems that are compatible with a SIMATIC CPU, thus, enabling the use of protocols, such as:

- Profibus
- Profinet
- S7-Connection
- Modbus TCP

EMIDATE is installed more than 200 times worldwide: in power plants, waste incineration plants and district heating plants as well as in other industrial plants.



Highlights of EMIDATE

- Online parameterization
- Easy manageable and expandable multilingual user interface
- Freely adjustable actual-value and compression cycles
- Easy access to stored data (graphs and tables)
- Automatic export of data to Intra- and Internet
- Acknowledgment for messages including acoustic alerting
- Entering comments by the plant operator – triggered spontaneously or by a particular event (with optional approval process)

One license – many possibilities

The well-structured license model enables a cost-effective use of EMIDATE from small to huge plants. Based on the server/client architecture each EMIDATE server can also act as a client for other servers in the network. Emission data (online-values and stored values) can be visualized on different clients – even in the office network.

Reporting

Reports, which are amongst others used to proof of fulfillment of authority regulations, can be generated periodically or on demand. The generated protocols can either be printed or saved as a PDF-file. These PDF-files can be sent via email or transferred to a FTP-server. In addition to the requirements defined in ÖNORM amongst others an Excel protocol is available, where all data stored in EMIDATE can be processed and presented with all available Excel functions. All IED reports are available as templates.

A scheduled export of data in a machine-readable format for distribution to a network via FTP is available. Thus, various data exports to control systems or authorities can be realized.

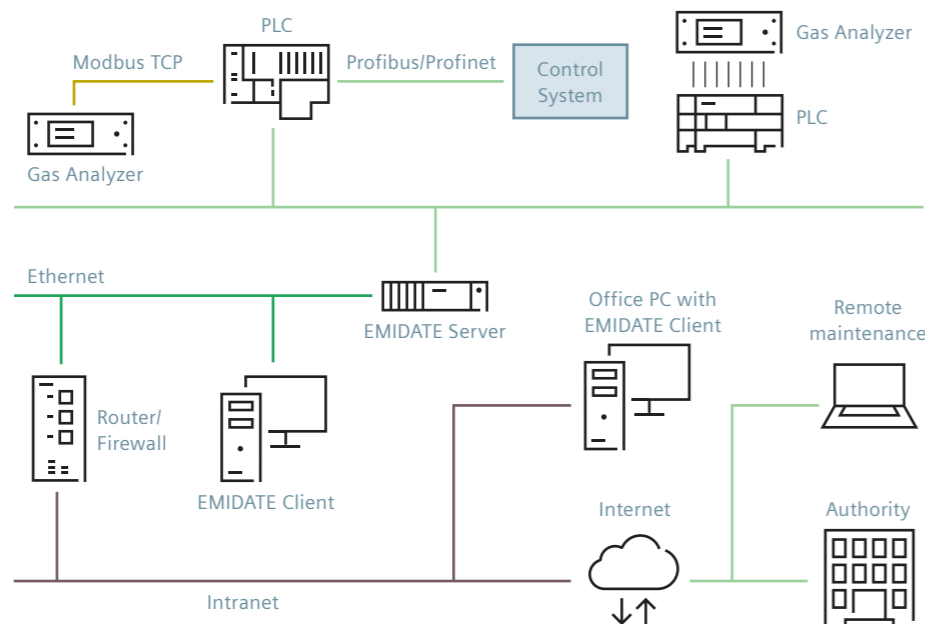
Applied in various branches

EMIDATE is mainly used in power plants, waste incineration plants and district heating plants, but also in other branches such as the chemical, cement and paper industry. The system can also be used as a data acquisition system for non-emission relevant applications.

We offer complete systems:

On request Siemens Energy Austria Ltd. can supply a complete gas-analysis system – from gas extraction, gas conditioning and analyzers to the continuous emission monitoring system EMIDATE – including hardware and software engineering as well as on site commissioning.

System topology



References

EMIDATE is installed more than 200 times worldwide.

A detailed reference list can be found at www.siemens-energy.com/emidate.

Country	References	Country	References	Country	References
Australia	Kogan Creek	Dubai	AlAweer (2 x), Jamex, Jebel Ali K	Saudi Arabia	AlWadhj, Arar, Duba, Jeddah (2 x), Al Jubail (4 x), Makkah, Rabigh (2 x), Rafha, RasAlKahir, Shuaibah, Tabuk (2 x), Ta'iff, Al Khobar (2 x), Al Khabij, PP9 (3 x), Al Shuquaiq, Yanbu (2 x), Shoiba (2 x), Juba (2 x), Hail (2 x)
Austria	MSD, EVN (14 x), Wienenergie (9 x), FHKW Wels, FHKW Graz, TRV Niklasdorf, KRV, Energie AG (4 x), Voest Linz, Verbund, Magna CMST, UPM, Werndorf, SCA Laakirchen, Lenzing Chemie Linz (3 x), Jungbunzlauer, Infineon Villach, AKH, KH Wien Nord, Krematorium Graz, Krematorium Wien, Kaindl, Swarovski (2 x), BHKW Villach, Wattenspapier, Montanwerke Brixlegg, MAN Steyr, MM Karton, Rauch, Smurfit Kappa	Egypt	Beni Suef, Burullus, New Capital	Serbia	Elixir Zorka, TENT A, TENT B, TE Kolubara, Vreoci, Morava
Argentina	Energetico Zarate, Genelba	England	Marchwood, Severn Power, Saica, Keadby	Singapore	DGEN, GMR Singapur, Pulau Seraya (2 x), Tuaspring
Armenia	Yerevan	France	Landivisiau	Slovenia	Acroni, Energetika Ljubljana, Energetika Maribor, Knauf, Lafarge Trbovlje, LEK Lendava, LEK Menges, TETOL Ljubljana, TE Brestanica, Vipap Krsko
Azerbaijan	Sumgait	Hongkong	Black Point	South Africa	Ankerlig (2 x), Gouriakwa
Bahrain	AlEzzel	India	Samsun, Sugan (2 x)	Spain	Arrubal
Belgium	Antwerpen, Stein (2 x)	Ireland	Huntstown	Thailand	Bang Pakong, Chana, Songkhla, Wang Noi, Bangkok
Brasil	Fortaleza, Novo Tempo	Israel	Alon Tavor, Ramat Gavriel, Sugat, Beer Tuvia	Turkey	Antalya (2 x)
Chile	Quintero (2 x), San Isidro (2 x), Taltal (2 x), Tarapaca, Aconcagua	Kosovo	KEK	UAE	Shuweihat (2 x), Taweelah
Croatia	INA Rijeka, INA Sisak, TE-TO Zagreb, ELTO Zagreb	Kuwait	AzZour (2 x), Sabiya (3 x)	Vietnam	Ca Mau (2 x), Nhon Trach, Phu My
Dom. Rep.	Los Minas	Malaysia	Panglima, Pengerang	Yemen	Marib
		Malta	Delimara		
		Montenegro	Pljevlja		
		Netherlands	Diemen, Hemweg, Enecogen		
		Norway	Karstoe		
		Oman	Barka, Qurayyah, Sohar		
		Philippines	San Gabriel		
		Poland	Plock		
		Portugal	Ribatejo		
		Qatar	Ras Laffan		
		Romania	Vega Refinery		
		Russia	MVA Moskau		

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EMIDATE is certified by:

