

Answers for clean air, clean water and clean energy

Mexican-Danish-Water Day – March 4th 2010 Siemens Turbomachinery Equipment A/S Turblex Inc. – A Siemens company

Siemens a strong partner in sustainable urban infrastructure development





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The aeration process: What is it & why is efficiency so important?





The importance of aeration as a central process in the plant







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"Energy efficiency is not just lowhanging fruits — it is fruits that is lying on the ground" US Secretary of Energy, Steven Chu

So how can we pick up this fruit in municipal sewage treatment?

A current, nearby challenge: Atotonilco project, Mexico City





Mexican-Danish-Water-Days 2010 Other mega-cities and their trust in Siemens aeration blowers

Metropolitan Potential savings Installed Siemens Selected population p.a. (mill EUR) (CO₂ emission) cities (mill) blowers London 13.9 11.0 (64 kilotons) ---9.3 (54 kilotons) Paris 11.8 34 units Madrid 7.1 5.6 (32 kilotons) 20 units Berlin 5.0 24 units 3.9 (23 kilotons) 3.7 2.9 (17 kilotons) 15 units Rome Warsaw 3.4 2.6 (15 kilotons) 11 units Amsterdam 14 units 2.2 1.7 (10 kilotons) Stockholm 20 units 2.0 1.6 (9 kilotons) Oslo 1.4 1.1 (6 kilotons) 18 units **Mexico City** 21.2 17 (97 kilo tons) 4 units Singapore 10.0 8.9 (50 kilotons) 34 units Shanghai 18.9 15 (87 kilotons) 36 units **New Delhi** 18.4 15 (84 kilotons) ---**New York** 18.2 14 (84 kilotons) 49 units Cairo 17.9 14 (82 kilotons) 19 units Tehran 13.4 11 (61 kilotons) 5 units

Our support in health/ environmental

Waste water of over 600 million population equivalent (P.E.) is treated with Siemens equipment

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Over 300 million people are benefiting from environmental friendly waste water aeration with Siemens equipment

Every year we supply or upgrade an additional 45 million population equivalent of waste water plants

* Based on the assumption that our equipment would be substituted with 50% multistage and 50% PD-blower

Other mega-cities and their trust in Siemens aeration blowers

Selected cities	Metropolitan population (mill)	Potential savings p.a. (mill EUR) (CO ₂ emission)	Installed Siemens blowers
London	13.9	11.0 (64 kilotons)	
Paris	11.8	9.3 (54 kilotons)	34 units
Madrid	7.1	5.6 (32 kilotons)	20 units
Berlin	5.0	3.9 (23 kilotons)	24 units
Rome	3.7	2.9 (17 kilotons)	15 units
Warsaw	3.4	2.6 (15 kilotons)	11 units
Amsterdam	2.2	1.7 (10 kilotons)	14 units
Stockholm	2.0	1.6 (9 kilotons)	20 units
Oslo	1.4	1.1 (6 kilotons)	18 units
Mexico City	21.2	17 (97 kilo tons)	4 units
Singapore	10.0	8.9 (50 kilotons)	34 units
Shanghai	18.9	15 (87 kilotons)	36 units
New Delhi	18.4	15 (84 kilotons)	
New York	18.2	14 (84 kilotons)	49 units
Cairo	17.9	14 (82 kilotons)	19 units
Tehran	13.4	11 (61 kilotons)	5 units

Our Ecological balance sheet *

We reduced the energy demand of the industry by 675 MW (equivalent to one 1-bEUR power plant)

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Over EUR 430 million EUR in energy cost saved in waste water treatment per year

Emission savings of over **2.9 megatons of CO₂** per year achieved (equivalent number of cars on the road: 750.000)

* Based on the assumption that our equipment would be substituted with 50% multistage and 50% PD-blower

Making the right choice

SIEMENS

For clean air, clean water and clean energy

Thank you very much for your attention Please visit at our booth outside the conference room

And join our seminar in the afternoon 15:30- 16:25 o'clock to learn more what Siemens can do for you

For more information's or a cost free energy audit of your aeration system, please contact:

Florian Adam Siemens Turbomachinery Equipment A/S Allegade 2 3000 Helsingoer, Denmark Phone +45 49 21 14 00 Fax +45 49 21 52 25 Direct +45 49 25 63 12 Mobil +45 30 52 32 23 mailto: florian.adam@siemens.com

Siemens Study tour

SIEMENS

"Pay as you benefit" solution



- "Pay as you benefit" shows our confidence in the achievable energy savings for your plant
- With our partner Siemens Financial Services (SFS) we take over the initial investments in our products, allowing you to:
 - save liquidity in turbulent times
 - free investments for other purposes
 - put energy savings back into your facility
 - increase effluent quality & stability
 - save the environment w.o. putting pressure on your credit line
 - Payback via the agreed energy savings over the payback time

Siemens Study tour



Siemens "Pay as you benefit" solution



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