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>> PERSPECTIVES_2012 THE FUTURE OF CHEMICAL AND PHARMACEUTICAL PRODUCTION IN GERMANY

CMF JUNE 19, 2012 - FACILITATED BY DR. MICHAEL REUBOLD, CHEMANAGER



>> MANAGING SUSTAINABLE DEVELOPMENT.

A SITE MANAGERS PERSPECTIVE ON CURRENT AND FUTURE REALITIES

Dr. Roland Mohr Infraserv GmbH & Co. Höchst KG ACHEMA PERSPECTIVES 2012

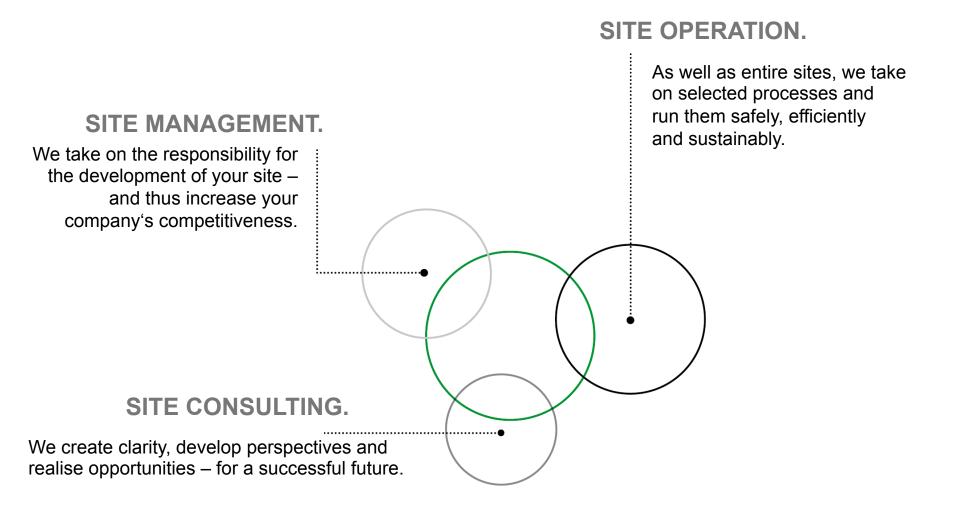


>> ABOUT US: WHO WE ARE AND WHAT WE DO.

INFRASERV GMBH & CO. HÖCHST KG

>> WE OPERATE SITES FOR THE CHEMICAL AND PHARMACEUTICAL INDUSTRY.





>> OUR LARGEST REFERENCE: THE INDUSTRIAL PARK FRANKFURT-HÖCHST.





>> OUR LIFE SCIENCES CLIENTS





>> OUR CHEMICAL INDUSTRY CLIENTS







>> WE DELIVER SITE EXCELLENCE.

SITE OPERATION. SITE SERVICES. UTILITIES. WASTE MANAGEMENT. LOGISTICS.



>> HOW WE WORK: SAFE. EFFICIENT. SUSTAINABLE.





safe

We combine know-how and many years of expertise as a leading site operator for the chemical, pharmaceutical and related process industries.

efficient

We activate performance reserves, use potentials and deliver consistent, measurable results as part of intelligently integrated end-to-end solution.

sustainable

We follow an integrated, long-term approach based on partnership that benefits the client, the employees, the environment and the society.

infra serviced

>> A SITE MANAGERS PERSPECTIVE ON CURRENT AND FUTURE REALITIES.

AN ESSAY

>> 1% OF THE GERMAN POWER DEMAND RELEVANCE OF THE TOPIC FOR INFRASERV





- 1.800 GWh/a power
- 600 Tm³/a drinking water
- 2.850 GWh/a heat (steam)



- 400.000 households of power use
- 4.000 households of water demand
- 140.000 one family homes of heat need

>> ENERGY SHIFT ACCELERATES STRUCTURAL CHANGES IN MARKETS AND TECHNOLOGIES





- Accelerated exit from nuclear power
- Realisation of a sustainable energy supply
- Necessity of new power plant capacities on the basis of renewable energies and natural gas
- Trend towards decentralised energy production
- Adaptation of grids to the future structure of energy production
- Changing economic frameworks in energy production and distribution



>> CUSTOMERS DEMAND FUTURE-PROOF ENERGY SUPPLY





COST EFFECTIVENESS

Supply of an internationally competitive energy mix

• AVAILABILITY

Ensuring redundant supply for critical facilities / customers

SUSTAINABILITY

Careful use of resources for energy production

NETWORK SYNERGIES

Further development of production structure towards customer requirements and use of industrial networks in the region



>> FLEXIBLE ENERGY USAGE IS KEY – THREE LEVERS IN MANAGING THE ENERGY SHIFT





SWITCH TO RENEWABLE ENERGIES

Biogas plant, biogas treatment, waste-to-energy concepts etc.

AVOID USING ENERGY

Assess energy savings potential jointly with customers Use Six Sigma projects to lower energy use on the site

INCREASE ENERGY EFFICIENCY

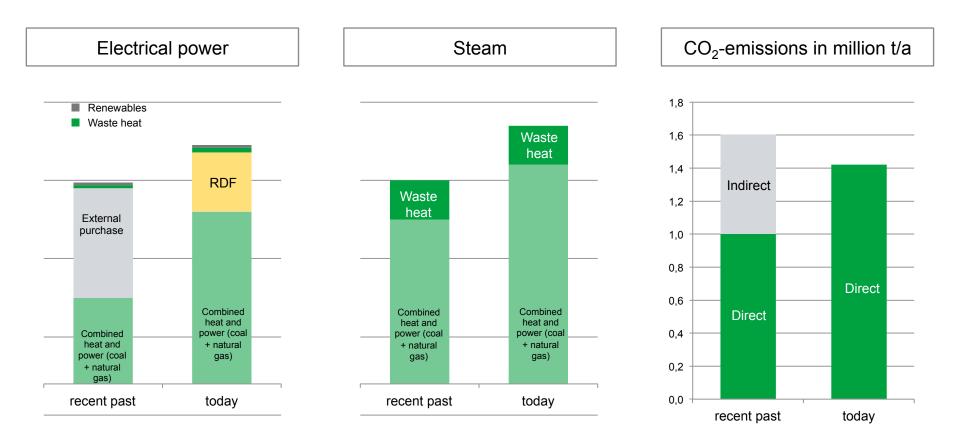
Energy production in CHP: Efficiency >90% Use of residual heat

THE PATH TO **INDEPENDENT ENERGY SUPPLY** AND PROACTIVE USE OF **CHANGING PARAMETERS** BRINGS MANY **BUSINESS OPPORTUNITIES.**

>> SIGNIFICANT REDUCTION OF CO2 EMISSIONS ATTAINED VIA INVESTMENTS IN NEW FACILITIES



Total emissions were lowered by 160,000 tons per year even though an increase in energy demand has been observed.



>> FUTURE INDUSTRY NEEDS CALL FOR **SUSTAINABLE** ENERGY USE AND GENERATION – TODAY.



NEEDS in 2020

ACTIONS today

- Emissions monitoring
- Reduce carbon footprint
- Self-reliant energy production: Decoupling from volatile markets
- Explore and test new technologies
- Strengthen energy networks
- Reuse of material
- Integrated energy and disposal system: Waste-to-energy
- Help customers: consulting services
- Invest in efficiency: low energy buildings

ENVIRONMENT

- Higher efficiency
- Increased share of renewables
 SOCIETY
- Less emissions and waste
- New technologies

EMPLOYEES

- Attractive sector to work in ECONOMY
- Stable and secure prices
- New business opportunities



>> MEGATREND SUSTAINABILITY: FROM SHAREHOLDER VALUE TO SHARED VALUE?



The Big Idea



CREATING SHARED VALUE

How to reinvent capitalism—and unleash a wave of innovation and growth by Michael E. Porter and Mark R. Kramer

BUSINESSES MUST DEAL WITH **POLICY CHANGES** AND SOCIETIES HIGHER **SENSITIVITY FOR SUSTAINABILITY** IN ORDER TO **BE SUCCESFUL.**

Harvard Business Review, Jan/Feb 2011

>> GOOD IDEA! FIVE ENTREPRENEURIAL REASONS FOR SUSTAINABLE DEVELOPMENT





1. LICENSE TO OPERATE

Compliance with regulatory frameworks and thresholds

2. GOOD REPUTATION

Sustainability as a mean to improve the company image

3. ETHICAL COMMITMENT

Achieving entrepreneurial targets without jeopardizing ethical values and respect for humanity and the environment

4. "ENLIGHTENED SELF-INTEREST"

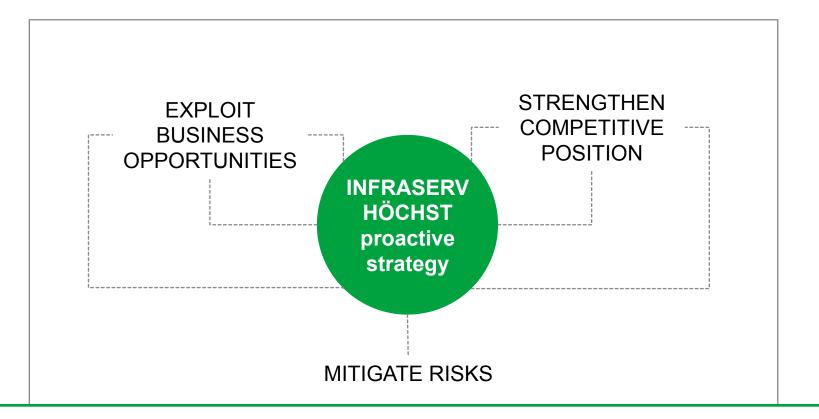
Joint consideration of economic, environmental and societal needs

5. ECONOMIC SUCCESS



>> STRATEGIC DIMENSIONS OF SUSTAINABILITY OFFER OPPORTUNITIES AND THREATS ALIKE

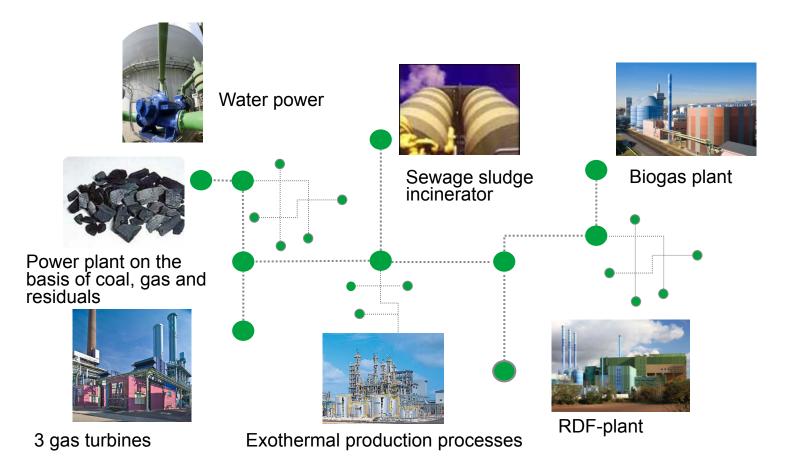




OUR GOAL IS TO **INCREASE REVENUE AND PROFIT** THROUGH A **STRONGER COMPETITIVE POSITION.**

>> ECONOMIES OF SCOPE: EFFICIENCY-DRIVEN INFRASTRUCTURE DEVELOPMENT





ENERGY "VERBUND" AT FRANKFURT-HÖCHST INDUSTRIAL PARK

>> FORMING THE FUTURE WITH **REGIONAL INTEGRATION** – SOME EXAMPLES.

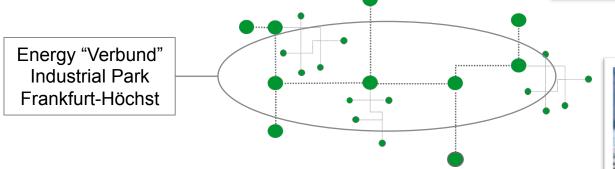


BIOGAS FOR LOCAL PUBLIC NETWORK



HYDROGEN FUEL STATION





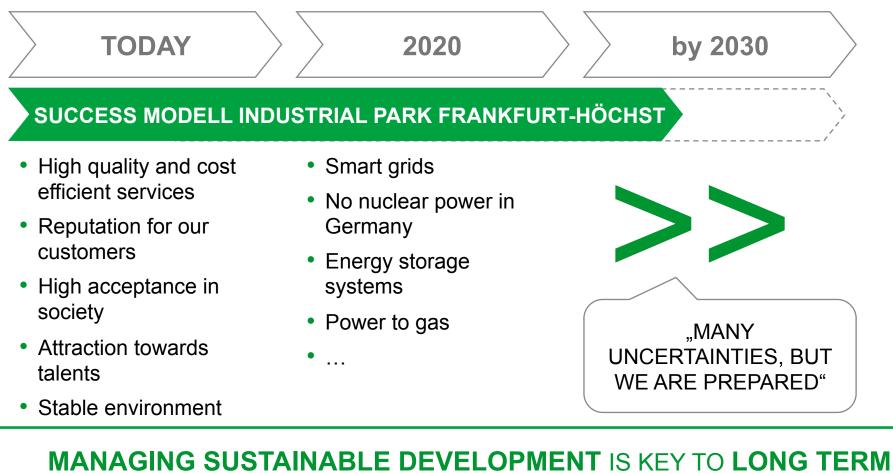


PLANNED: COUPLING OF HEATING AND COOLING NETWORKS

TREATMENT OF MUNICIPAL SEWAGE SLUDGE

>> A SITE MANAGERS PERSPECTIVE ON SUSTAINABLE DEVELOPMENT: VALUE FOR CLIENTS AND SOCIETY





MANAGING SUSTAINABLE DEVELOPMENT IS KEY TO LONG TERM COMPETITIVENESS IN GERMANY. THE CHAMPIONS OF TOMORROW SET A SUSTAINABLE COURSE TODAY!



>> THANK YOU FOR YOUR ATTENTION.

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DR. ROLAND MOHR, COO INFRASERV HÖCHST