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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

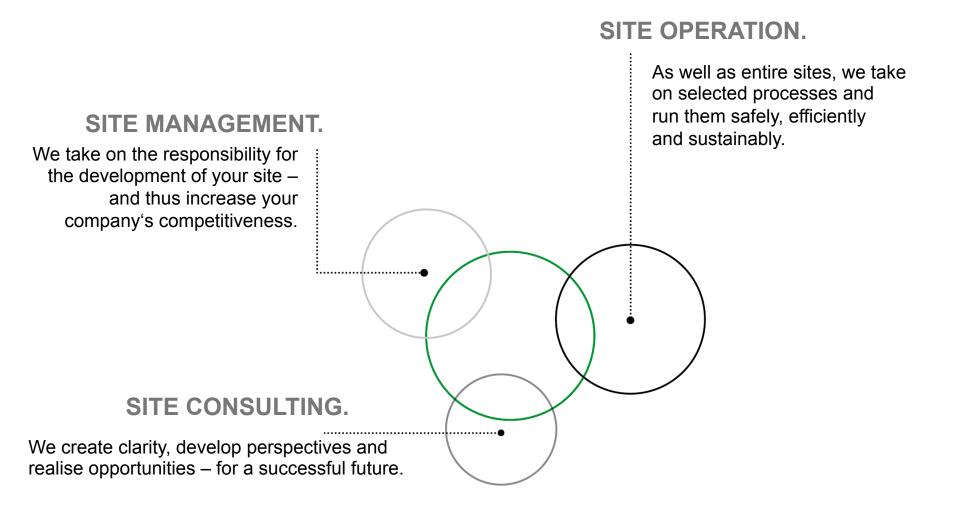


# >> ABOUT US: WHO WE ARE AND WHAT WE DO.

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 Tm<sup>3</sup>/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

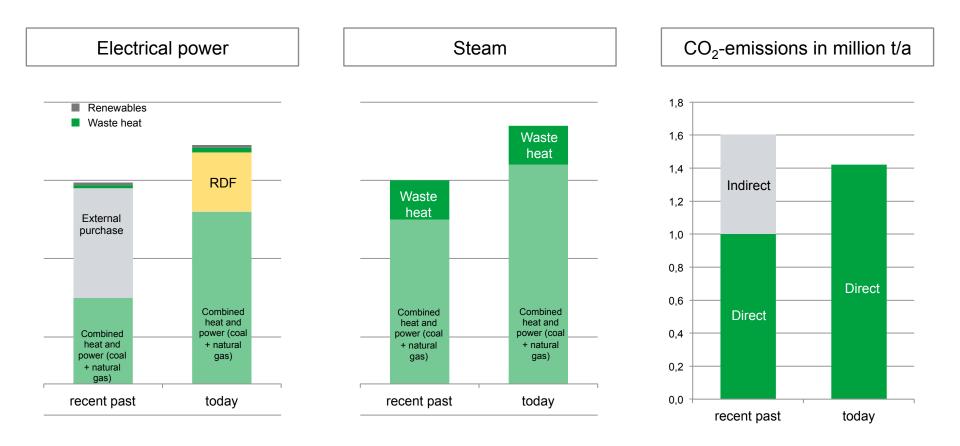
Energy production in CHP: Efficiency >90% Use of residual heat

# 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"

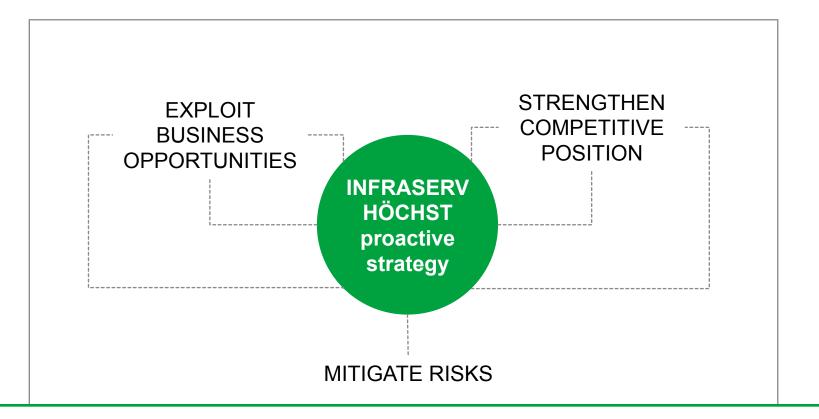
Joint consideration of economic, environmental and societal needs

### **5.** ECONOMIC SUCCESS



# >> STRATEGIC DIMENSIONS OF SUSTAINABILITY OFFER OPPORTUNITIES AND THREATS ALIKE

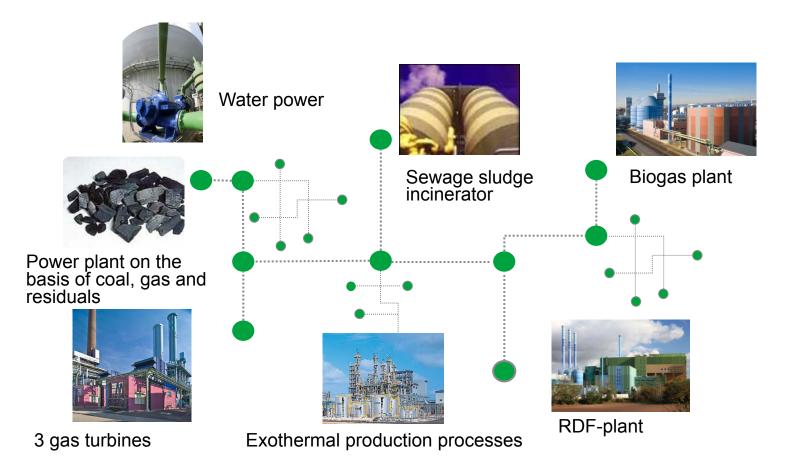




# OUR GOAL IS TO **INCREASE REVENUE AND PROFIT** THROUGH A **STRONGER COMPETITIVE POSITION.**

## >> ECONOMIES OF SCOPE: EFFICIENCY-DRIVEN INFRASTRUCTURE DEVELOPMENT





#### **ENERGY "VERBUND" AT FRANKFURT-HÖCHST INDUSTRIAL PARK**

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

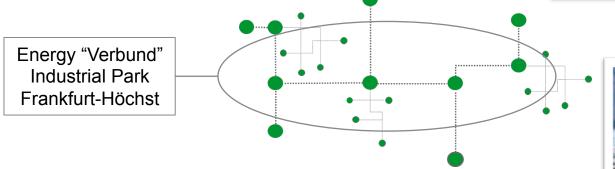


### BIOGAS FOR LOCAL PUBLIC NETWORK



#### HYDROGEN FUEL STATION





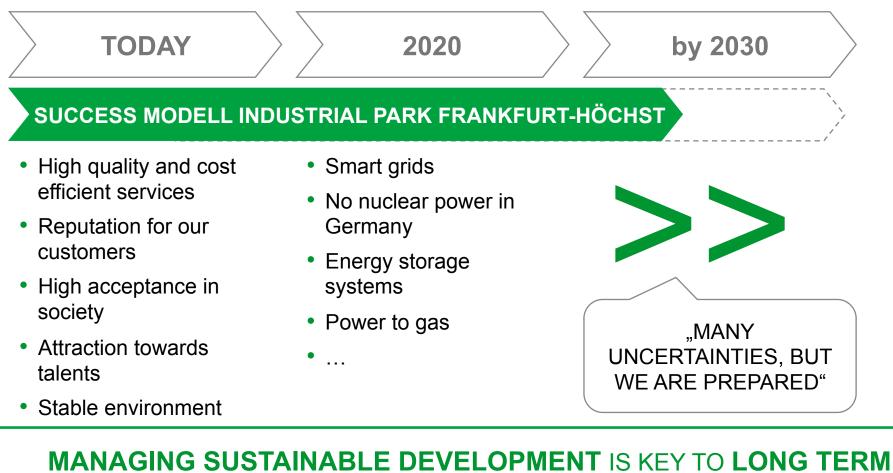


PLANNED: COUPLING OF HEATING AND COOLING NETWORKS

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