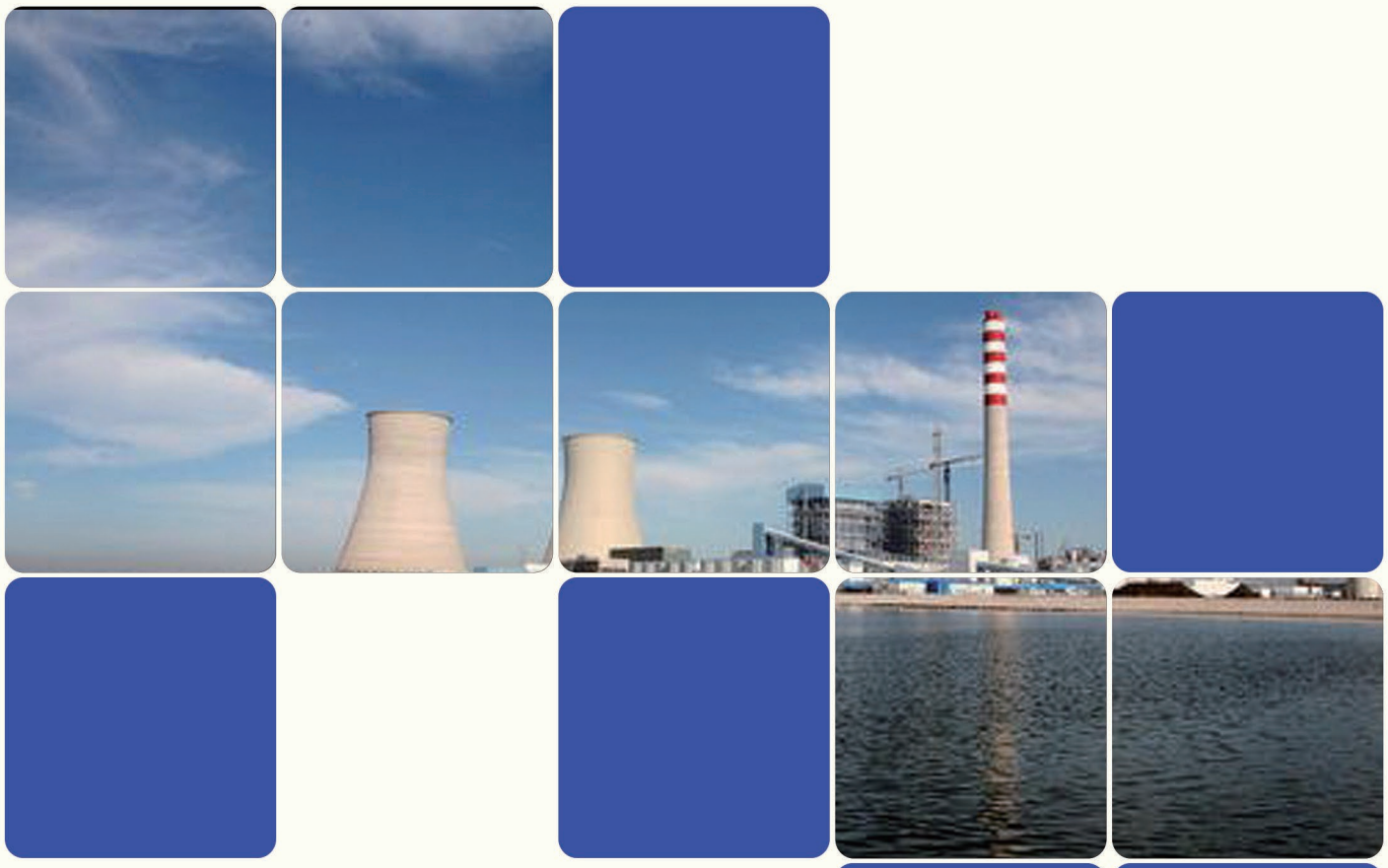


IBES2020

The 4th International Biomass Energy Summit

——Biomass for Heat and Power Forum

Sept. 3rd-4th, 2020 Shanghai, China

www.biomass-summit.org

The 4th International Biomass Energy Summit (IBES2020)

——Biomass for Heat and Power Forum

Sept. 3rd -4th , 2020 Shanghai, China

Day One (Sept. 3rd , Thursday)

08:30 Sign in & Name Cards Exchanging

09:00 Opening Ceremony

09:10-09:45 Current situation, latest policies and development trends of biomass power generation and heating industry in China

★ Current situation
★ Latest policies and development trend
★ Suggestions and guidance for the construction of bioenergy projects

09:45-10:20 Technical standards and industrial standard system of biomass industry

★ Emission standards for biomass-fueled power-generating boilers
★ Economic performance of the biomass power plants with different emission standards
★ Improving the standards and certification system

10:20-10:55 Key policies and investment ideas for scaled power generation with agricultural and forestry waste

★ Market overview of power generation with agricultural and forestry waste
★ Insights into key industry policies
★ Economic analysis and investment ideas

10:55-11:10 Tea Break & Networking

11:10-11:45 Planning and construction of biomass direct-fired power generation project

★ Market, development trend and industry difficulties of biomass direct-fired power generation technology
★ Analysis and control of pollutant emissions from direct-fired biomass power generation and steam supply
★ Overall operation optimization adjustment and improvement measures
★ Life cycle and economic benefit analysis

11:45-12:20 Integrated biomass and waste-to-energy project

★ Overall planning and construction of integrated biomass and waste-to-energy project
★ Resources & equipment integration and operation management
★ Investment & operation cost and project benefit

12:20-14:00 Lunch & Networking

14:00-14:35 Biomass CHP technology and case study

★ Overall planning of biomass CHP project
★ Equipment selection, configuration, installation and heating scheme
★ Thermoelectric distribution and rational energy planning
★ Economic benefit analysis of CHP

14:35-15:10 Open for Presentation Sponsor

15:10-15:45 Equipment selection and technical points of biomass power plant

★ Fuel requirements and applicability of different boiler types
★ Prevention and treatment of ash clogging in boiler air preheater
★ Selection of steam turbine
★ Improving the operation stability of core equipments

15:45-16:00 Tea Break & Networking

16:00-16:35 Modification and commissioning technology of circulating water heating at low vacuum operation of steam turbine in biomass power plant

★ Technical modification measures for low vacuum operation of steam turbine
★ Determination of modification parameters
★ Tasks and methods of automatic control and regulation of heating system
★ Economic benefit analysis of modification

16:35 -17:10 Construction and operation of biomass district heating project

★ Current situation of biomass heating in China
★ Difficulties, challenges and solutions of the construction regional heating project
★ Fuel management, cost analysis and operation management
★ Project case analysis

17:10-17:45 Panel Discussion: Investment and financing of the biomass power generation and heating industry

17:50 End of Day One

Day Two (Sept. 4th , Friday)

08:30 Sign in & Name Cards Exchanging

09:00-09:35 Design and optimization of combustion control system for biomass furnace

★ Introduction to biomass combustion in furnace
★ Methods and measures to stabilize combustion
★ Optimization with intelligent control
★ Dynamics and economics of biomass combustion

09:35-10:10 Challenges and modification solutions to slag removing from furnaces

★ Slag removing structure overview
★ Current problems and impacts
★ Modification solutions and specifications
★ User cases

10:10-10:45 Automation solutions for biomass power plant

★ Intelligent management and control platform for biomass power generation
★ Power plant emission monitoring and calculation of key performance indicators of power plant
★ Optimizing operation through real-time monitoring of equipment status
★ Fault diagnosis and analysis based on big data for early warning of equipment failure

10:45-11:00 Tea Break & Networking

11:00-11:35 Operation, maintenance and heat supply management of biomass thermal power plant

★ Fuel pretreatment and feeding
★ Equipment transformation and operation optimization
★ Strengthen the planned maintenance and operation adjustment

11:35-12:10 Panel Discussion: management and optimization of fuel procurement, storage and delivery for biomass power generation

12:10-14:00 Lunch & Networking

14:00-14:35 Green emission of biomass power generation plant

★ Relevant standards for air pollutant emission from biomass boilers
★ Gas monitoring solution for biomass power generation
★ Flue gas desulfurization process
★ Control and removal technology of nitrogen oxide

14:35-15:10 High efficiency desulfurization and denitrification technology in biomass power plant and case sharing

Open for presentation sponsor

15:10-15:45 Biomass gasification-coal coupling power generation system

★ Circulating Fluidized Bed process
★ Pressurized fuel gas delivery system
★ Biomass- fuel gas combined combustion
★ Sustainability and economics analysis

15:45-16:00 Tea Break & Networking

16:00-16:35 Core technology & process of biomass gasification for power generation

★ Selection of gasification chambers
★ Gas cleaning
★ Turbine technology
★ Improved energy conversion rate and cost control

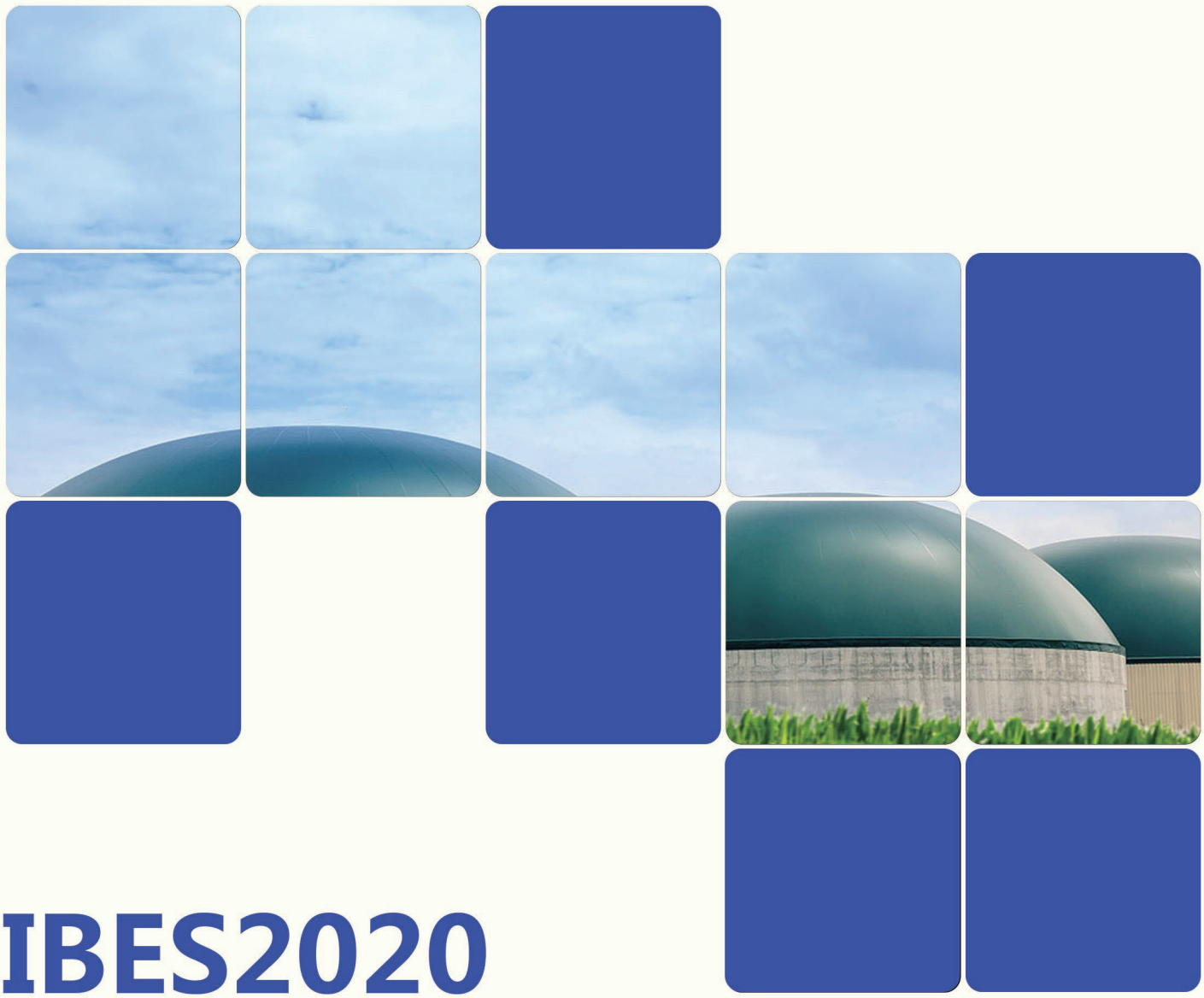
16:35-17:10 market status and application cases of biomass gasification for power and heat

★ Market overview
★ Technology & process
★ Commercial applications
★ Challenges and solutions in management and operation

17:10-17:45 Utilization of biomass ashes

★ Ash properties and current utilizations
★ Technical pathways of ashes utilization
★ Challenges and solutions to ashes utilization

17:50 End of the Biomass for Heat and Power Forum



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Day One (Sept. 3rd , Thursday)

08:30 Sign in & Name Cards Exchanging

09:00 Opening Ceremony

09:10-09:45 Status quo, policies and future trend of biogas industry

★ Status quo and challenges of China biogas industry
★ Biogas related policies
★ Development trends and suggestions

09:45-10:20 Biogas technology with straw as raw material

★ Component properties of straw
★ Pretreatment technology before fermentation
★ Straw fermentation process and operation parameters
★ analysis of operation cost and investment income

10:20-10: 55 Large and Medium-sized Biogas Project Engineering Design and Construction Safety Technology

★ Overall planning and design highlights
★ Main equipment and design
★ Construction and operation management
★ Maintenance and failure management
★ Engineering case

10:55-11:10 Tea Break & Networking

11:10-11:45 Operation and management of large-scale biogas project

★ Collection, storage and transportation system of raw materials
★ Biogas production
★ Biogas application and market analysis
★ Project operation problems and experience sharing

11:45-12:20 Comprehensive disposal technology of urban organic waste and operation experience sharing

★ Classified collection, transportation and pretreatment of urban organic waste
★ Collaborative anaerobic digestion process
★ Parameters and indexes of the operation process
★ Economic benefit analysis

12:20-14:00 Lunch & Networking

14:00-14:35 Industry standards of scaled biogas projects

★ Technical specifications for large and medium-sized biogas projects
★ Biogas process equipment specification
★ Quality standard of Bio-natural gas products
★ Problems and suggestions of China's biogas industry standard system

14:35-15:10 Open for Presentation Sponsor

15:10-15:45 Treatment and resource utilization of livestock and poultry breeding waste

★ Harmless treatment of livestock and poultry breeding wastewater
★ Key technologies for resource utilization of livestock and poultry manure
★ Process design and efficient operation management
★ project case analysis

15:45-16:00 Tea Break & Networking

16:00-15:35 Panel Discussion: Discussion on the current situation, industry pain point and development direction of Biogas Industry in China

16:35-17:10 Technical model and process selection of medium-sized biogas engineering for livestock and poultry waste and agricultural stalk

★ Establishment of collection, storage and transportation system for livestock and poultry manure
★ Process selection and engineering design of bio-fermentation and biogas comprehensive utilization project
★ Preparation of organic solid fertilizer from biogas residue and biogas slurry
★ Economic and social benefits analysis

17:10-17:45 Distributed comprehensive utilization model of Biogas

★ Development and application of distributed biogas energy mode in foreign countries
★ Significance and policy support for developing distributed biogas production in China
★ Planning, construction and problem solving of distributed biogas energy comprehensive utilization project
★ Case analysis

17:50 End of Day One

Day Two (Sept. 4th , Friday)

08:30 Sign in & Name Cards Exchanging

09:00-09:35 Anaerobic digestion and pretreatment of sewage sludge

★ Sludge reception and pretreatment
★ Anaerobic digestion process design
★ Operation and management of fermentation system
★ Methane system

09:35-10:10 Sewage Sludge treatment – Veolia' s technologies, solutions and applications

★ Characteristics of sewage sludge and pretreatment
★ Advanced sludge treatment system based on digestion
★ Biogsa-fueled combined heat and power generation
★ User cases

10:10-10:45 Cooperative treatment of municipal sludge and organic matter

★ Pretreatment of kitchen waste and sludge
★ Cooperative anaerobic digestion of kitchen waste and sludge
★ Operation parameters and indicators
★ Economic analysis

10:45-11:00 Tea Break & Networking

11:00-11:35 Anaerobic fermentation of municipal organic waste

Open for presentation sponsor

11:35-12:10 Highly efficient kitchen waste treatment

★ Classified procurement and efficient pretreatment of kitchen waste
★ Utilization and harm-free treatment of kitchen waste
★ Case Study

12:10-14:00 Lunch & Networking

14:00-14:35 Techniques and processes of large-scale biogas-fueled combined heat and power generation

★ Development overview
★ Project design and plan
★ Residual heat utilization
★ Case study

14:35-15:10 Intelligent technologies for biogas production systems

★ pH monitoring system for acidification tanks and biogas tanks
★ Automatic feedstock loading, heating and mixing systems
★ Efficiency improvement for biogas production with intelligent technologies

Open for presentation sponsor

15:10-15:45 On-line monitoring and remote control systems for biogas production

★ Status quo of remote control engineering market
★ Configuration of remote control network
★ IoT network set-up
★ Case study

15:45-16:00 Tea Break & Networking

16:00-16:35 Experience of biogas engineering technology in Germany and its application in China

★ Mainstream technology and operation management of biogas project in Germany
★ Technical problems existing in the application of German biogas engineering technology in China
★ Overall planning and technical transformation of biogas project in China
★ Application practice of German technology in China

16:35-17:10 Biomass Gas-Power-Heat-Fertilizer Recycling Model In Anping County

★ Procurement, storage and transport of feces and straws
★ Biomass Gas-Power-Heat-Fertilizer Recycling Model
★ A high-value utilization approach
★ Sustainability and economics analysis

17:10-17:45 Comprehensive utilization technology of biogas slurry and residue

★ Problems and countermeasures of utilizing biogas slurry and residue in china
★ Property analysis of biogas slurry and residue
★ Comprehensive utilization of biogas slurry and residue

17:50 End of the Fermentation and Biogas Utilization Forum