

BillionGroup Technologies Ltd. 兆豐科技設備有限公司

# BillionGroup Technologies Ltd. 兆豐科技設備有限公司

# Green Project Opportunities in Hong Kong and China Speaker: Prof. Ir Steve S.F. Wong Managing Director



NOW

## The Development of BillionGroup with the Vision "To Shape Energy for a better World" since 1991





### Portfolio of BillionGroup

BillionGroup Technologies Ltd. Based in Hong Kong Energy & Environmental Consultant (Listed Consultant with EACSB, HKSAR Government and Hengqin Authority, GBA, China)

umwelttechnik & ingenieure GmbH Based in Germany BUI Technologies Ltd.

Based in Hong Kong

BGT Technologies Ltd.

Based in Hong Kong

Waste Management Consultant

Private Equity Fund for Green Projects Development, Operation & Maintenance Design, Build and Operation of Energy, Wastewater, Transport Infrastructures

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Germany Office, u&i

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### **CLIENT REFERENCE**

BillionGroup Technologies Ltd. 兆 豐 科 技 設 備 有 限 公 司

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### **MAP OF BUSINESS CONTACTS**



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Political

Cultural

Social

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# Why are there increasing Green Project Opportunities in Hong Kong and China?



The National Constitution was updated in March 2018 to include environmental rights.



# Why are there increasing Green Project Opportunities in Hong Kong and China?

The Key Strategic Planning in China's development blueprint

Guangdong-Hong Kong-Macao Greater Bay Area

**Belt & Road Initiative** 





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# Why are there increasing Green Project Opportunities in Hong Kong and China?

![](_page_9_Figure_3.jpeg)

China's Five-Year Plans 13<sup>th</sup>: 2016-2020 14<sup>th</sup>: 2021-2025

![](_page_9_Figure_5.jpeg)

Greater Bay Area Development Plan

![](_page_9_Figure_7.jpeg)

![](_page_9_Figure_8.jpeg)

### HKSAR Government Green Finance

![](_page_10_Picture_0.jpeg)

# China's 13<sup>th</sup> Five-Year Plan (2016-2020)

## **Major Objectives:**

- Maintain a medium-high rate of growth
- Achieve significant results in innovation-driven development
- Further coordinate development
- Improve standards of living and quality of life
- Improve the overall caliber of the population and the level of civility in society
- Achieve an overall improvement in the quality of the environment and ecosystems
- Ensure all institutions become more mature and better established

![](_page_11_Picture_0.jpeg)

# China's 13th Five-Year Plan (2016-2020)

Part X – Ecosystems and the Environment includes...

- Promote Economical and Intensive Resource Use
  - Encourage the use of recycled water and advanced wastewater treatment and recycling
  - Arrange for the construction of resource recycling demonstration centers
  - Encourage the circular use of resources between production and society, and accelerate efforts to recycle resources from refuse
- Step Up Comprehensive Environmental Governance
  - Accelerate the development of urban refuse treatment facilities, improve refuse collection and transportation systems, increase the waste incineration rate, and ensure proper treatment of landfill leachate
- Develop Green and Environmentally Friendly Industries
  - Support the development of green services providers, expand the use of energy efficient and environmentally friendly products
  - Establish a green finance system, develop green credit and bonds, and launch green development funds

![](_page_11_Figure_13.jpeg)

Highlights of proposals for

![](_page_12_Picture_0.jpeg)

# China's 14<sup>th</sup> Five-Year Plan (2021-2025)

Following the success of the 13th FYP, ideas proposed for the 14th FYP include...

- More state investments into green and sustainable production
- Slowdown in the country's energy consumption
  - Reduce coal's proportion of the primary energy mix
- Further decrease in carbon intensity
  - Carbon emissions cap
- Steady increase in the use of renewable energy resources
  - Wind and solar expansion

![](_page_12_Picture_10.jpeg)

Numerous Green Project Opportunities in upcoming 14<sup>th</sup> Five-Year Plan!

# Greater Bay Area (GBA)

![](_page_13_Picture_1.jpeg)

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- GBA comprises of the two Special Administrative Regions of Hong Kong and Macao, and the nine Pearl River Delta municipalities
- Objectives:
  - Further deepen cooperation amongst Guangdong, Hong Kong and Macao
  - Fully leverage the composite advantages of the three places
  - Facilitate in-depth integration within the region
  - Promote coordinated regional economic development
  - Develop an international first-class bay area ideal for living, working and travelling
- GBA is the **testbed** for China's Belt & Road Initiative (BRI)
  - 138 countries are part of the BRI
  - We can expect more projects in GBA with a focus on ecological civilization

![](_page_14_Picture_0.jpeg)

# **Greater Bay Area Development Plan**

## **Six Basic Principles:**

- To be driven by innovation and led by reform
- To coordinate development and plan holistically
- To pursue green development and ecological conservation
- To open up and cooperate and achieve a win-win outcome
- To share the benefits of development and improve people's livelihood
- To adhere to "One Country, Two Systems" and at in accordance with the law

![](_page_15_Picture_0.jpeg)

# **Greater Bay Area Development Plan**

### Chapter Seven – Taking Forward Ecological Conservation includes...

- To take forward cooperation in the management of water resources, water environment and waterrelated projects
- Strengthen the management of projects concerning land-based pollution discharge, water-related projects as well as the environment of coastlines and beaches
- To further promote clean production technologies
- To encourage conservation across the board and promote recycling
- Establish circular linkages between the use of resources and materials in industrial production and in everyday life
- Promote low-carbon travelling

![](_page_15_Figure_9.jpeg)

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# **Green Finance in Hong Kong**

![](_page_16_Picture_3.jpeg)

- Green Finance is the financing of investments that provide environmental benefits in the broader context of environmentally sustainable development
- With the growing awareness that **climate change** is a shared responsibility every person must pull their weight on, there is now a rising trend of investors favoring **environmentally ethical** projects over unethical ones
- As one of the world's leading international financial hubs, as well as the most open and international city in the GBA, Hong Kong plays an important role in supporting the economic development of the region
- Amid the tremendous funding needs for green infrastructural development on the Mainland and the
  opportunities arising from the Belt and Road Initiative, Hong Kong has the potential to grow the green finance
  market by offering a broader range of green investment products and acting as a hub for raising green capital to
  meet the needs of both green enterprises and investors

![](_page_17_Picture_0.jpeg)

# **Green Finance in Hong Kong**

- The Hong Kong Government is actively promoting the development of green finance. Under the Government Green Bond Program, the inaugural Green Bond with an issuance size of US\$1 billion and a tenor of 5 years was successfully offered in May 2019.
- To make better use of Hong Kong's competitive capital markets and its sophisticated financial and professional services, the Government launched the Green Bond Grant Scheme in June 2018 to subsidize eligible green bond issuers in obtaining certification under the Green Finance Certification Scheme established by the Hong Kong Quality Assurance Agency.
- The Green Finance Certification Scheme Green Fund was launched in September 2019 to provide third-party conformity assessments and enhance transparency of investment process.

![](_page_17_Picture_5.jpeg)

![](_page_18_Picture_0.jpeg)

# Main Areas for Green Projects Opportunities

![](_page_18_Figure_3.jpeg)

![](_page_19_Picture_0.jpeg)

# **1.1 Types of Renewable Energy**

![](_page_19_Figure_3.jpeg)

![](_page_19_Picture_4.jpeg)

![](_page_19_Picture_5.jpeg)

# 1.2 Renewable Energy – Solar Photovoltaic System

### **Characteristics:**

- New system, comprehensive utilization of solar energy resource with broad development prospects
- Small scale, significant power generation efficiency and internal rate of return (IRR)
- The power generation process is environmentally friendly, non-polluting & no noise
- Helps alleviate the problem of power shortage

![](_page_20_Picture_7.jpeg)

# 1.2 Renewable Energy – Solar Photovoltaic System

### **Advantages:**

- ✓ Help to conserve our environment
- ✓ Earn income via the Feed-in Tariff (FiT) Scheme
- ✓ Lower top floor temperature
- $\checkmark$  Drop on air conditioner (A/C) system running cost for over 60%

![](_page_21_Picture_7.jpeg)

![](_page_21_Picture_8.jpeg)

# 1.2 Renewable Energy – Solar Photovoltaic System

### Two solar photovoltaic systems

- Building Attached Photovoltaic (BAPV)
- Building Integrated Photovoltaic (BIPV)

|                              | BAPV  | BIPV  |
|------------------------------|---|---|
| Types of Building            | For Existing Buildings  | For New Design Buildings  |
| Application forms            | Regular Solar systems that are generally installed on top of the building | Solar Cells integrated into the building envelop elements   |
| Application                  | On top of the building, e.g., rooftop, curtain walls and ceilings, etc.   | Integrate into the building envelop<br>elements, e.g., construction materials as<br>roof tiles and ceramic or glass facades   |
| Extra space for installation | Required  | Not required  |
| Advantages                   | Simple Installation and Maintenance                                       | <ul> <li>Saves building material and<br/>construction cost</li> <li>Aesthetic and functional</li> <li>Larger available area for installation<br/>(e.g. building facades rather than just<br/>rooftops)</li> </ul> |

![](_page_23_Picture_0.jpeg)

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# 1.2 Renewable Energy – Solar Photovoltaic System

![](_page_23_Picture_3.jpeg)

(photo of partial enlargement)

Xi'an Conservatory of Music

**Rooftop Application** 

![](_page_23_Picture_8.jpeg)

**Glass** Curtain Application

![](_page_23_Picture_10.jpeg)

Parking Shed Application

![](_page_24_Picture_0.jpeg)

# 2.1 Wastewater Treatment – Circular Economy

![](_page_24_Picture_3.jpeg)

![](_page_25_Picture_0.jpeg)

## 2.2 Wastewater Treatment – Innovative Technologies

### **Significant Savings**

![](_page_25_Figure_4.jpeg)

![](_page_26_Picture_0.jpeg)

# 2.2 Wastewater Treatment – Innovative Technologies

**Biological Wastewater Treatment Technology** 

![](_page_26_Figure_4.jpeg)

### **Biological Wastewater Treatment Technology**

All-in-One Basin Structure

![](_page_27_Figure_4.jpeg)

### **Biological Wastewater Treatment Technology**

![](_page_28_Figure_3.jpeg)

**Target of Conventional Aeration** 

Actual Effect of Conventional Aeration

Actual Effect of Our Aeration

|  | A/O, SBR, OD Process | Our Process    |
|--|----------------------|----------------|
| Up-flow velocity                       | 1.0 m/s              | 0.4 m/s        |
| Aerated amount                         | 3.5-5.0 m³/m∙h       | 0.5-0.7 m³/m•h |
| SOTE                                   | 20%                  | 48%            |
| Fine Bubble Micro-mixing with Bacteria |                      |                |

### **Biological Wastewater Treatment Technology**

- Hydraulic Circulation Technology: Airlift Circulation System
  - ✓ High influent diluting ratio
- Fine living environment for bacteria
- ✓ Increase impact resistance
- ✓ Low air volume needed, 5% blower capacity

![](_page_29_Figure_8.jpeg)

# 2.2 Wastewater Treatment – Innovative Technologies

### **Biological Wastewater Treatment Technology**

### **Prominent Advantages:**

### ✓ Low Construction Cost and Less Land Footprint

Integrated All-in-One Structure

### ✓ Excellent Performance

- High biomass concentration (8g/L)
- Mainstream SND
- High impact resistance

### ✓ Energy Saving

• Reduced power consumption for aeration and hydraulic circulation

### $\checkmark$ Low Operation Maintenance Cost

- Non-stop self-cleaning mechanism
- Low excess sludge

|   | Conventional<br>Processes<br>(CASS、AAO、OD) | Our Process |
|---|--|-------------|
| Blueprint Area<br>(m²/m³)               | 0.7 ~ 0.9                                  | 0.4 ~ 0.5   |
| Operating Cost<br>(RMB/m <sup>3</sup> ) | 0.22 ~ 0.25                                | 0.12 ~ 0.17 |
| DO (mg/L)                               | 2~4  | 0.3         |
| MLSS (mg/L)                             | 2,000~4,000                                | 6,000~8,000 |
| Gas-Water Ratio                         | 6~8  | 3 ~ 4       |
| Effective Depth of<br>Water (m)         | 4 ~ 5                                      | 5.5 ~ 6     |
| Minimum Operating<br>Temperature(°C)    | 10 °C                                      | 7 °C        |

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# 2.2 Wastewater Treatment – Innovative Technologies

### Sludge Ultra-dewatering Technology

What is Wastewater Treatment Sludge?

- Residue from Wastewater Treatment with (almost) all pollutants
- Consists of feces and bio-sludge from treatment process
- 70-80% water content

### Problems if sludge is not treated:

- High disposal cost
- Energy-consuming incineration necessary for safe disposal

![](_page_31_Figure_10.jpeg)

# 2.2 Wastewater Treatment – Innovative Technologies

### Sludge Ultra-dewatering Technology

**The Process** 

![](_page_32_Picture_5.jpeg)

1. Dewatered Sewage Sludge

![](_page_32_Picture_7.jpeg)

2. Carbonization to Coal Slurry

![](_page_32_Picture_9.jpeg)

3. Coal Slurry

![](_page_32_Picture_11.jpeg)

4. Ultra Dewatering

![](_page_32_Picture_13.jpeg)

5. Dry Sludge Coal

### Sludge Ultra-dewatering Technology Advantages:

- ✓ Completely continuous process
- ✓ Minimal number of valves and pumps
- ✓ Stable pressure and temperature levels

- $\checkmark$  No lag time through batch process
- $\checkmark$  No loss of condensate like steam injection
- ✓ Ultra-dewatering in automated filter presswith optional vacuum evaporation

![](_page_33_Figure_9.jpeg)

![](_page_34_Picture_0.jpeg)

# 2.2 Wastewater Treatment – Innovative Technologies

• Reference: Shaoxing Dyestuff Industrial Park

![](_page_34_Picture_4.jpeg)

Reference: CNPC Group Acrylonitrile Plant WWTP

![](_page_34_Picture_6.jpeg)

![](_page_35_Picture_0.jpeg)

# 2.3 Wastewater Treatment – Water Management

### Assist a steel factory in Vietnam to

- 1. Investigate the cause of water pollution
- 2. Carry out the water quality monitoring plan
- 3. Set up the mitigation measure

![](_page_35_Picture_6.jpeg)

![](_page_35_Picture_7.jpeg)

![](_page_35_Picture_8.jpeg)

![](_page_35_Picture_9.jpeg)

![](_page_36_Picture_0.jpeg)

# 2.3 Wastewater Treatment – Water Management

### **Photos of Site Inspection in Vietnam**

![](_page_36_Picture_4.jpeg)

![](_page_36_Picture_5.jpeg)

![](_page_36_Picture_6.jpeg)

![](_page_37_Picture_0.jpeg)

# 2.3 Wastewater Treatment – Water Management

### **Findings During the Investigation**

![](_page_37_Picture_4.jpeg)

![](_page_37_Picture_5.jpeg)

![](_page_37_Picture_6.jpeg)

![](_page_37_Picture_7.jpeg)

![](_page_37_Picture_8.jpeg)

![](_page_38_Picture_0.jpeg)

# 3.1 Waste Hierarchy in Smart Cities

![](_page_38_Figure_3.jpeg)

![](_page_39_Picture_0.jpeg)

### **Reference: Integrated Waste Management Facilities in Hong Kong**

![](_page_39_Picture_3.jpeg)

EPD, 2018

![](_page_39_Picture_5.jpeg)

![](_page_40_Picture_0.jpeg)

### Reference: Hamburg's Centre for Resources and Energy in Germany

![](_page_40_Picture_3.jpeg)

![](_page_40_Picture_4.jpeg)

Reference: Hamburg's Centre for Resources and Energy in Germany Background:

- Design and Build of Hamburg's Centre for Resources and Energy in Germany
- Current Status: The completion of all plant sections will be in 2023

Client: Stadtreinigung Hamburg (SRH)Time Period: Since February 2017Investment: 280 Mio €

![](_page_41_Picture_6.jpeg)

![](_page_41_Picture_7.jpeg)

### Reference: Hamburg's Centre for Resources and Energy in Germany

### **Technical Data/Plant Sections:**

**Plant section 1:** Sorting of up to 140,000 Mg waste from household and public litter bins for production of recovered substitute fuels (RDF), fermentation of fine fraction and production of a bio-fuel and other biomasses

Plant section 2: Fermentation and composting of 22,000 Mg/a bio- and green waste

**Plant section 3:** Treatment of 8.5 mio m<sup>3</sup>/a biogas from plant sections 1 and 2 as well as optional further 4 mio m<sup>3</sup>/a from an existing fermentation plant (Biowerk)

Plant section 4: Biomass-heated power plant with a thermal capacity of 2 x 20 MW

Plant section 5: RDF-heated power plant with a thermal capacity of 1 x 48 MW

![](_page_42_Picture_8.jpeg)

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![](_page_43_Picture_0.jpeg)

Reference: Hamburg's Centre for Resources and Energy in Germany

![](_page_43_Figure_3.jpeg)

![](_page_44_Picture_0.jpeg)

### 4.1 Green Supply Chain Management

### What is a Supply Chain?

• A network consisting of all parties involved (e.g. supplier, manufacturer, distributor, wholesaler, retailer, customer, etc.), directly or indirectly, in producing and delivery products or services to ultimate customers

### Why is it important to practice Green Supply Chain Management (GSCM)?

- Cost savings (conserving materials, reduced energy and water use)
- ✓ Reach optimal levels of sustainability performance
- ✓ Better public image
- ✓ Decreased environmental liability
- ✓ Attract resources from socially concerned investors

![](_page_44_Figure_11.jpeg)

![](_page_45_Picture_0.jpeg)

### 4.1 Green Supply Chain Management

How to practice GSCM?

An example of a clothing business:

Green Procurement

![](_page_45_Picture_6.jpeg)

- Select suppliers that provide green fabrics (e.g. organic cotton, recycled materials)
- Place purchasing orders through email (paperless)
- Green Manufacturing
  - Increase energy efficiency in lighting and heating within factories → cost savings (reduced energy use)
  - Recycle/reuse extra fabric → minimize waste
  - Practice ecolabelling of products → encourage green consumer behavior

![](_page_45_Picture_13.jpeg)

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### 4.1 Green Supply Chain Management

How to practice GSCM?

### An example of a clothing business:

- Green Distribution
  - Use "green" packaging materials (e.g. biodegradable plastics, recycled products)
  - Promote recycling and reuse programs (e.g. collecting old clothes from customers for recycling, collecting packaging materials for reuse)
- Green Logistics
  - Use alternative fuel vehicles (e.g. electric trucks)
  - Group orders together rather than in small batches  $\rightarrow$  cost savings (reduced fuel consumption)
- Process Optimization
  - Identify flaws/problems within the supply chain (e.g. oversupply of a certain style that is left unsold) → waste of money, materials, storage space
  - Implement a new process (e.g. use predictive analytics to calculate amount of stock needed for each clothing style) → cost savings

![](_page_47_Picture_0.jpeg)

### 4.1 Green Supply Chain Management

### **GSCM** in Hong Kong

- Hong Kong is known for its trade centers and its status as an international transportation and aviation hub
- The practice of GSCM would save time, cut costs and reduce energy consumption

   all of which would benefit all parties involved within the supply chain
- As a testbed, Hong Kong plays an important role in the development of both the GBA and the BRI
- The practice of GSCM could be promoted internationally

![](_page_47_Picture_8.jpeg)

![](_page_48_Picture_0.jpeg)

### 5.1 Green Equity Fund

### Private Equity Fund for Green Projects Development, Operation & Maintenance

![](_page_48_Figure_4.jpeg)

![](_page_48_Picture_5.jpeg)

TECHNOLOGIES LTD.

![](_page_48_Picture_7.jpeg)

![](_page_49_Picture_0.jpeg)

### 5.1 Green Equity Fund

### Private Equity Fund for Green Projects Development, Operation & Maintenance Possible Developments/Projects:

![](_page_49_Picture_3.jpeg)

The PEF will originate, design, build and operate projects which will have the potential to act as the hub of a local circular economy in a defined region.

N.B. Each project will vary from location to location depending on local circumstances.

![](_page_50_Picture_0.jpeg)

# Thank You

For further information and support, please contact us at:

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