

Towngas Smart Energy TERA TOUR Shenzhen leg successfully concluded

(18 May 2023) “TERA TOUR – Shenzhen”, organised by Towngas Smart Energy Company Limited under the guidance of the Shenzhen Development and Reform Commission and the Shenzhen Futian District People’s Government, has come to a successful conclusion. With the theme of “Building a Dream in the Greater Bay Area Towards a Zero-Carbon Smart Future”, the event brought together about 500 guests, including local government officials, representatives from industrial and commercial sectors, investors and ecosystem partners of Towngas Smart Energy, among others, to share Shenzhen’s forward-looking plans in the zero-carbon area and Towngas Smart Energy’s “Seven-Star Service Scheme”.

It is the shared responsibility of all humankind to tackle rapid global warming and climate change, and there is no time to lose to take on the sacred mission of saving our endangered planet. Dr Lee Ka-kit, a member of the Standing Committee of the National Committee of the Chinese People’s Political Consultative Conference (CPPCC) and the Chairman of Towngas and Towngas Smart Energy, expressed in the opening video the vision of Towngas and Towngas Smart Energy to promote sustainable economic and social development through technological innovation and green energy transformation.

Mr Wang Jun, the Deputy Director of the Shenzhen Development and Reform Commission, said that Shenzhen is firmly on the path of ecological priority and green development. He outlined the strategic blueprint of Shenzhen’s “dual-carbon” development from four aspects: constructing a modern industrial system, a modern energy system, green low-carbon transportation and green buildings. He also added that as an important bridge for the communication of innovative elements of green and low-carbon technologies, capital, services and so forth, TERA TOUR is of positive significance in promoting the goals of carbon peak and carbon neutrality. He looked forward to working with everyone at the event to usher in a new era of green development.

Mr Cai Yingquan, the Deputy Secretary of the Futian District Committee, Executive Vice-District Mayor of Futian and Secretary of the Political and Legal Committee of Futian, said that the Chinese name of TERA TOUR has a profound meaning, as it represents the pooling of resources and talents from all sides to work together for a win-win situation and to help achieve the “dual carbon” goals. As a central district of Shenzhen, Futian faces a great challenge in achieving carbon peak and carbon neutrality due to its high concentration of population and industries within limited space, but only the “dual carbon” approach can break through the constraints of resource and environmental limitations. “Therefore, our Secretary and Mayor have taken the matter into their own hands, and the whole region has been working

together to build a ‘1+8+18’ policy system, and to create an innovative government-driven and multi-stakeholder collaborative working model. We have explored green finance, established the first professional investment fund for new energy and carbon neutrality in China, introduced leading enterprises such as Towngas Smart Energy, and made every effort to build a hundred-billion-RMB clean energy industry cluster, so that the green elements of the industry will continuously enhance the development value. We invite everyone here to choose Futian, invest in Futian, settle in Futian, root in Futian, cultivate in Futian, and share in the future mutual benefits and win-win outcomes.”

Mr Peter Wong Wai-ye, the Managing Director of Towngas and an Executive Director and the CEO of Towngas Smart Energy, said, “As a Hong Kong gas company with a 160-year history, we entered the Chinese mainland market in 1994 with our headquarters in Shenzhen. Currently, we have over 300 gas companies and serve 40 million customers with an annual gas sales volume of over 32 billion cubic metres. In 2016, we began expanding into the Chinese mainland’s smart energy industry. And in 2020, with the support of Chairman Dr Lee Ka-kit, we vigorously developed the renewable energy business mainly focused on distributed photovoltaics, with a goal to achieve carbon neutrality in our mainland operations by 2045.”

Futian is a central district of Shenzhen and a National Eco-civilisation Construction Demonstration Area. Mr Pang Qin, the Director of the Futian District Development and Reform Bureau, stated in his speech that Futian is creating a near-zero carbon demonstration benchmark for a mega city centre. By building a vibrant new energy industry ecosystem, innovating a “point-line-surface” carbon reduction development model, creating a carbon finance development mechanism, developing a dual-carbon economic industry space, and introducing supportive dual-carbon economic policies, Futian aims to promote high-quality economic and social development. Currently, Futian has taken the lead in promoting the energy-saving renovation of public institutions throughout the district, in which Towngas Smart Energy is also involved.

In his keynote speech, Mr Cheng Huiming, an Academician of the Chinese Academy of Sciences and the Director of the Institute of Technology for Carbon Neutrality, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, pointed out that carbon neutrality can only be achieved through the development of transformative technologies, and that to achieve carbon neutrality, “six transformations” are needed: low-carbonisation in energy production, electrification of energy use, smartification of energy networks, adoption of hydrogen energy in industrial processes, carbon dioxide utilisation, and recycling of resources. The Institute of Technology for Carbon Neutrality is currently working with the Towngas Energy Academy to establish a joint innovation centre for

efficient energy storage.

Mr Li Jianwei, the Chief Engineer and the Director of the Innovation Department of the State Power Investment Corporation (SPIC), shared the innovative practices of the SPIC's integrated smart zero-carbon power plant. He said that the integrated smart zero-carbon power plant combines new energy (pan-distributed), energy storage (distributed and shared), biomass, adjustable load and so on through a smart system, to build a new energy production and consumption aggregation that is internally coordinated and balanced, and externally grid-friendly and mutually supportive. Together with Towngas Smart Energy, the SPIC has continued to deepen cooperation in areas such as urban smart energy project development and operation, industry investment and incubation in green and low-carbon technology, as well as green gas production and supply, forming a strategic partnership for sustainable development.

Mr James Chang, the Managing Partner of Regional Economic Clusters of PwC China, stated that the shift from energy "dual control" to carbon "dual control" is an inevitable move, and the carbon "dual control" policy will have a profound impact on power supply, transmission and distribution, load as well as regulations. He believed that enterprises need to take the lead in exploring innovative and interactive models with the power grid, seeking comprehensive solutions with the goal of achieving local power balance.

Mr Wu Wenchuan, a professor in the Department of Electrical Engineering at Tsinghua University and the Deputy Director of the State Key Laboratory of Power Systems, pointed out that the Chinese mainland's pilot construction of virtual power plants is entering the second phase. The Department of Electrical Engineering at Tsinghua University and Towngas Energy jointly established the Joint Research Centre for Zero-carbon Smart Park and Virtual Power Plant Technologies to collaborate on six research topics and promote technological progress in the country's virtual power plant pilot projects.

Ms Shi Mei, the Vice President of Tencent Cloud and Head of Energy and Resources Industry, said that Tencent is using its five core technologies in full interconnection to construct an ecosystem connecting the smart digital foundation and the energy & carbon factory. Tencent Cloud and Towngas Smart Energy have launched a new generation of the smart energy ecosystem platform called "Tera Planet". In the future, the platform's service function system will be improved, and efforts will be made to promote the green transformation of industrial parks.

Mr Hao Xiang, the Managing Director of IDG Capital, introduced that IDG Capital has jointly established the first domestic ten-billion-RMB zero-carbon technology fund with "technology investment + scene empowerment" as its theme with

Towngas. Through practical application scenarios, the fund will promote fast implementation and improvement of innovative energy technologies and products for excellent investee companies, promote energy conservation and emission reduction, and help achieve the dual carbon goals.

Dr Martin Zhu, the CEO of i2Cool Limited from Hong Kong, shared the practical application cases of electricity-free cooling technology in Shenzhen and Hong Kong. The team innovatively developed an electricity-free cooling coating with a sunlight reflectivity of over 95%, which effectively radiates heat outwards through mid-infrared radiation with an emissivity exceeding 95%. i2Cool won the Gold Award at the TERA-Award Smart Energy Innovation Competition, jointly launched by Towngas and the SPIC, with factors such as its technological innovation, commercial prospects, and team strength.

Commercial and industrial enterprises are the backbone of achieving the “dual carbon” goals. For Fortune 500 multinational companies, export-oriented manufacturing companies and energy companies, there are different opportunities and challenges in achieving the “dual carbon” goals. CP Group is a diversified multinational company with core businesses in agri-food, retail, and telecommunications, and also operates in industries such as finance, real estate, and pharmaceuticals. The company has set a clear goal of achieving carbon neutrality by 2030. Mr Hong Bo, the Executive Vice President of CP Group, said that Towngas Smart Energy has already started to help them with the carbon-neutral transformation of its food factory in Qingdao, and the two companies will closely work together in the future on zero-carbon planning, photovoltaic construction, air conditioning and air compression energy saving, multi-energy combined supply and hydrogen energy, and other areas, to “carbon-label” all CP Group products.

IPE Guangzhou is a global high-end precision manufacturing enterprise whose products cover automotive core components, industrial robots, and more. Mr Zhao Chuncheng, the Vice President, gave a speech titled “Zero-Carbon Practices of China’s Leading Manufacturing Enterprises”. The company highly appreciates Towngas Smart Energy’s carbon reduction solutions, and the smart energy-saving system created by Towngas Smart Energy was recently certified as the first Class-1 energy-efficient compressed air station in the precision manufacturing industry. In the future, IPE will comprehensively expand its cooperation within the group through demonstration, replication, and promotion.

Towngas has a 160-year history and is the first public utility in Hong Kong, and it is also one of the largest energy suppliers in Asia. Mr Zhang Jinbai, the Executive Vice President of Towngas Smart Energy, introduced that the carbon-neutral path of Towngas’ mainland business is centred around “smart energy and zero-carbon transformation”. It aims to achieve a carbon peak in all business segments on the

mainland by 2029 and carbon neutrality in all mainland business segments by no later than 2045, moving from zero-carbon Towngas to a zero-carbon ecosystem and ultimately to a zero-carbon society, fulfilling its corporate responsibility, and making contributions to the zero-carbon goal of the whole society.

“Everything starts with the carbon reduction needs of commercial and industrial customers.” In order to better serve the individual carbon reduction needs of different corporate customers, Towngas Smart Energy provides customers with comprehensive one-stop services such as customised planning, low-carbon energy supply, green energy saving, digital empowerment, as well as carbon and electricity management.

Dr Qiu Jianhang, an Executive Director and the Chief Operating Officer – Renewable Energy of Towngas Smart Energy, led the senior executives of seven Towngas subsidiaries, including Towngas Carbon Asset, Towngas Green Power, Towngas Energy Storage, Towngas Energy Engineering, Towngas Energy Conservation, Towngas Digital Energy, and Towngas Energy Academy, to jointly launch the Towngas “Seven-Star Service Scheme”. The term “Seven-Star” also expressed Towngas Smart Energy’s intention to provide customers with seven-star service.

Towngas Smart Energy is currently adopting the three core strategies of “integration, digitalisation and decarbonisation” to help achieve the country’s dual carbon goals. Through TERA TOUR, Towngas is working with industry partners in the smart energy ecosystem to gather zero-carbon technologies and solutions from all around China, in order to realise the dream of a zero-carbon world.

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Press photos:

Photo 1:



Mr Peter Wong Wai-ye, Managing Director of Towngas and Executive Director and CEO of Towngas Smart Energy, says that with the support of Chairman Dr Lee Ka-kit, the Group is vigorously developing its renewable energy business, mainly distributed photovoltaic (PV), with a view to achieving carbon neutrality in its mainland operations by 2045.

Photo 2:



Dr Qiu Jianhang, Executive Director and Chief Operating Officer – Renewable Energy of Towngas Smart Energy, points out that the “Seven-Star Service Scheme” indicates the Group’s desire to provide customers with seven-star service.

For media enquiries, please contact:

Mr Bien Wong
Corporate Affairs, ESG and
Mainland Business Strategy Manager
Tel.: 2963 3135 / 6155 2480
Fax: 2516 7368
Email: bien.wong@towngas.com

Ms Julia Wong
Senior Corporate Communications Officer
Tel.: 2963 3492 / 6064 0007
Fax: 2516 7368
Email: julia.wong@towngas.com