

Radium Group





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1. 1Q 2024- Radium participated in Subsidiary Bao Ding Reclaimed Water's new share issuance, subscribing to a 70% shareholding ratio with a subscription amount of NT\$51 million. After the completion of the capital increase, the paid-in capital of Bao Ding Reclaimed Water reached NT\$945 million, with the number of paid-in shares reaching 94.5 million.
2. 1Q 2024- Subsidiary Rih Ding Water launches the third phase of the Taoyuan sewerage BOT project. Radium and Subsidiary Rih Ding Water have invested over NT\$12.5 billion in building this BOT project. With an additional investment of NT\$850 million for the third phase, the total investment will reach NT\$13.35 billion. The overall construction period will be around two years to build facilities capable of treating 50,000 tons of sewage. It will adopt a multi-stage biological treatment process, coupled with intelligent control to optimize sewage treatment, to strengthen water quality management with advanced energy-saving and carbon-reducing technologies so as to provide a stable and reliable water source for subsidiary Bao-Ding reclaimed water plant.
3. 4Q 2023- Radium participated in a capital raise of NT\$592 million in its subsidiary, Rih Ding Water Co., Ltd. The paid-in capital of the subsidiary, Rih Ding Water Co., Ltd., reached NT\$6.21 billion upon completion of the capital increase, with the number of issued shares reaching 621 million.
4. 3Q 2023- Subsidiary Ji Shun Life integrated Qiao'an project located at the Taipei commercial area, with land size of around 3,306 m². The target is to reconstruct aged buildings to raise community prosperity and safety. The project has started construction in July 2022 with initial plan to build up SRC green building with garden landscape around the area and launched in May 2023 named "Radium One". The Qiao'an project is targeting to complete construction by the end of 2026. It's awarded therefore both the "Excellence Award" under the best urban reconstruction category, and "Gold Award" under the best planning & design category of 2023 FIABCI-Taiwan Real Estate Excellence Awards.
5. 3Q 2023- The Genesis 1-Sanzhi closes the sales and is targeting to complete construction in the 4Q2024. The following project "The Genesis 2- Sanzhi," has launched with more than 130 sea-view leisure residences, complemented by a cloud-based smart care system, insulated and UV-resistant architectural design and rooftop solar systems. The Genesis 2 is targeting to complete construction by the end of 2025. It's awarded therefore the "Excellence Award" under the best planning & design category of 2023 FIABCI-Taiwan Real Estate Excellence Awards for its innovative design for elderly caring.



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Radium Group Organization & Business



Renewables

Rih Ding
Circular Economy
Investment Holdings
100%

Ding Sheng
Green energy
100%

Rih Ding
Water
100%

Taoyuan
Sewage
System
BOT

Bao Ding
Reclaimed
Water

Taoyuan
Reclaimed
Water
BTO

Jing Ding
Green
Energy
Technology

Development

Ji Shun Life Ech Co., Ltd.
100%

Rih
Yao
100%

Rih
Siang
100%

Zhao
Yao
100%

Radium
Perfect
Life

GENESIS
-Sanzhi

Qiao'an
Project

Urban
Renewal
Projects

Super
Station in
Daqiaotou

GENESIS
-Qishan

Xin xiu ge
Projects

Gongyuan
Section
Projects

Qingpu
Project

Taichung
MRT
Project

Kaohsiung
Railway
Old
Dormitory
Project

Youth
Social
House
BOT
Project

Kimpton
Hotel

Operating Business

Titan
100%

Jing-Jan Investment
Holdings
61.06%

Jing Jan
Retail
75%

Wan Da
Tong
71.65%

Q-Square

Taipei
Bus
Station
&
Leasing
Business

Radium
Kagaya
100%

Radium
Kagaya
Hotel

28.35%

36.8%

Current Major Projects

Project	GENESIS -Sanzhi	GENESIS -Qishan	Kaohsiung Railway Station East Old Dormitory Area Urban Renewal Project	Land Development Projects of TaiChung MRT System	The urban renewal project for Lot 246, Subsection 2 Gongyuan Section, Taipei City	Qiao'an "Radium One"	Beitou Xin xiu ge project
Site Location	Sanzhi District Fuhai Section	Qishan District, Kaohsiung City Northern section	Next to Kaohsiung Railway Station	WuRi WenXin BeiTun Line-Wenxin Chongde Station & Wenxin Yinghua Station 、 Nantun Station	At the cross roads of Guanqian Rd. and Xinyang Street near by Taipei Main Station	In commercial area of Taipei City	No. 238, Guangming Road, Beitou District, Taipei City
Development Mechanism	Self-Constructed Asset	Self-Constructed Asset	Urban renewal	MRT Joint Development	Urban renewal	Reconstruct-ion of urban aged buildings	Urban renewal
Product Planning	Silver elderly caring Compound park	Silver elder Compound park	multi-functional communities suitable for all generations, with residential and commercial areas.	Residential Building	A-class smart & green office building	Residential Building	Residential Building
Site Area	East side ~15,392 m ² / West side ~3,993 m ²	Phase one ~62,215 m ²	~27,617 m ²	~2,314 m ² / ~1,653 m ² / ~2,549 m ²	~2,010 m ²	~3,431 m ²	Estimated 4,608 m ²
Expected Commencement Time	East side 2Q 2020/ West side 1Q 2023	Under planning	Under planning	1Q 2025/ Chongde Station 3Q 2025/ Yinghua Station 2Q 2025/ Nantun Station	3Q 2026	3Q 2022	Under planning
Scheduled Completion Time	East side 4Q 2024/ West side 4Q 2025	Under planning	Under planning	1Q 2028/ Chongde Station 3Q 2028/ Yinghua Station 2Q 2028/ Nantun Station	3Q 2030	4Q 2026	Under planning
Scheduled Launch Time	East side Sales closed / West side Sales closing soon	Under planning	Under planning	Under planning	Under planning	On sale	Under planning

Radium Green Buildings Certified by EEWB by end of 2023

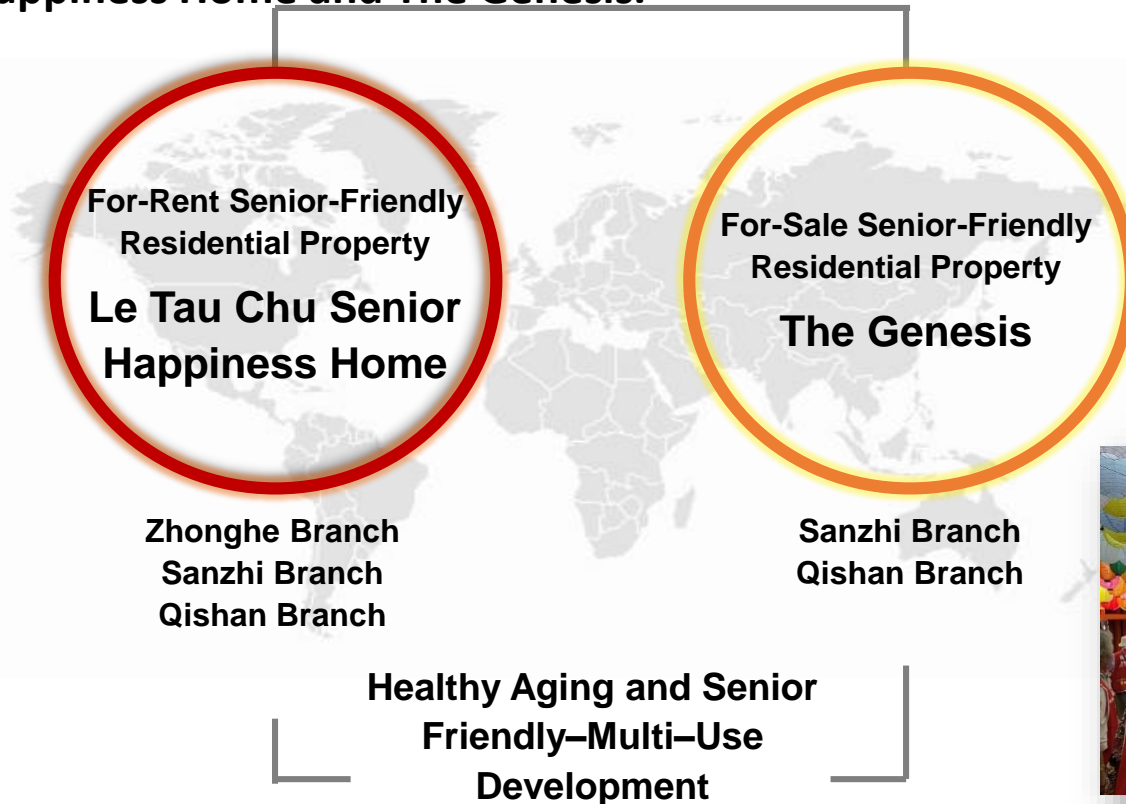
Project	Fu-Jou Affordable Housing Project- Radium Perfect Life		Super Station in Daqiaotou	Taoyuan Sewerage System BOT Project	Radium's New Q Square in Qingpu	GENESIS -Sanzhi	
						East Side	West Side
Eco-Mark	Green Building (Note.1)	Green Building (Note.2)	Green building	Green building	Green building	Green building Candidate	Green building Candidate
Category	Residential	other	Residential	Large Space Building	Residential	Residential	Residential
Ranking	Diamond	Diamond	Silver	Silver	Gold	Silver	Silver
Qualified index items	9 items	18 items	7 items	6 items	8 items	8 items	8 items
	Biodiversity	Biodiversity	*	*	*	*	*
	Greening degree	Greening degree	Greening degree	Greening degree	Greening degree	Greening degree	Greening degree
	Base water retention	Water cycle	Base water retention	*	Base water retention	Base water retention	Base water retention
	Energy saving	Energy-efficient buildings	Energy saving	Energy saving	Energy saving	Energy saving	Energy saving
	CO2 reduction	Green transportation	CO2 reduction	*	CO2 reduction	CO2 reduction	CO2 reduction
	Waste reduction	Reduced urban heat island effect	*	Waste reduction	Waste reduction	Waste reduction	Waste reduction
	Indoor environment	Friendly pedestrian walking space	Indoor environment	Indoor environment	Indoor environment	Indoor environment	Indoor environment
	Water resources	Waste reduction	Water resources	Water resources	Water resources	Water resources	Water resources
	Wastewater improvement	Reduce pollution	Wastewater improvement	Wastewater improvement	Wastewater improvement	Wastewater improvement	Wastewater improvement
		Lighting energy saving/ renewable energy/ Cultural facilities/ 5sports leisure facilities/ Living facilities /Co mmunity benefit/ Community awareness/ 5spatial characteristics/ Prevent equipment and mutual assistance					
Smart Building	Smart Building	Smart Building					

Note 1 : Application for EEWB(2009) for Green Building Mark for Fuzhou Affordable Residential. Note 2 : This green building mark is case of Fuzhou Affordable housing application for community (EEWB-EC.)



Radium Silver Life Project Goals

- Industry transformation : establishing operational models for opportunities in the elderly care industry.
- Building a resort for rentals and sales designed to provide comfort and livability for the senior generation.
- Establishing a dual-brand presence in the elderly care industry with Le Tau Chu Senior Happiness Home and The Genesis.





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Le Tau Chu Senior Happiness Home-Zhonghe



Providing a comprehensive care service system for middle-aged and elderly groups, covering physical, mental, and family aspects, implementing a "multifunctional continuous care resource integration" service model, and planning an "exclusive healthy and joyful aging environment", while extending the "professional care team's services" to "home-based services".

- “Le Tau Chu Senior Happiness Home-Zhonghe” won the “Most Popular Brand Award” at the 2023 National Brand Yushan Award and the “Symbol of National Quality” awarded for three consecutive years by the National Biotechnology Medical Technology Policy Center.



Happiness • Health • Joy



Le Tau Chu Senior Happiness Home-Zhonghe

- Total floor area: planned to be 63,815 m².
- “The Genesis 1- Sanzhi” => Buildings A and B for leasing.
=> Buildings C, D, E and F for sales.
- “The Genesis 2- Sanzhi” => “The GENESIS-Sanzhi 2” for sales.
- Total of 164 residential units for rent and 652 residential units for sale in east and west areas. With single and double rooms mainly, from 50 m² to 109 m² per unit.
 - The Elderly-Friendly Operating Center – “The Genesis 2-Sanzhi”, Providing Health and Wellness Services, with a team of nurses, nutritionists and social workers. The park incorporates an ultra-wideband (UWB) positioning system, integrated with a health & wellness app and identity recognition chips, to accurately locate residents in need of emergency assistance.
 - Designing a Seaside Resort Wellness Community, “The GENESIS-Sanzhi 2 “ is designed with bright and ventilating concepts, with cloud caring system to detect residents physical and mental health, and smart green buildings are integrating with coast view in Sanzhi, to make the elderly life become a high-end personal asset.



	“The Genesis 2- Sanzhi”	“The Genesis 1- Sanzhi”
Site Area	3,993 m ²	15,392 m ²
GFA	13,464 m ²	50,351 m ²
Product Planning	Health Elderly Caring Compound park	Health Elderly Caring Compound park
Development schedule	Expected to Obtain Approval of Building Permit in 4Q 2025.	Expected to Obtain Approval of Building Permit in 4Q 2024.
Current Status	East side Sales closed / West side Sales closing soon	Sales Closed

Project	Qishan Project
Site Location	Beishi Section, Middle-Qishan Dist., Kaohsiung
Development Mechanism	Self-Constructed Asset.
Site Area	Phase 1 development plan~62,215 m²
GFA	Phase 1 development plan~65,832 m²
Product Planning	Health elderly caring Compound park





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The Land Development Project of WuRi WenXin BeiTun Line

-Wenxin Chongde & Wenxin Yinghua Stations of TaiChung MRT Systems

● Location :

● Wenxin Chongde Station (G6 Station) :

- Located in the Dongfeng section of Beitun District. Site area about 2,314 m², with a coverage rate of 70% and a floor area ratio of 500%.
- MRT system land located in the Taichung Phase IV rezoned area. It is an earlier development area , at the cross road hub of Juwenxin Road and Chongde Road.

● Wenxin Yinghua Station (G8a Station):

- Located in the Zhongyi Section of Xitun District. The site area about 1,653 m², with a coverage rate of 70% and a floor area ratio of 500%.
- MRT system land located at the junction center of various development zones in Taichung. With Fengjia night market and Shuinan Special Zone at the north, Science Museum at the Northeast, New Municipal Special Zone at the south, and QiuHong Valley and Chaoma Transfer Station an the west.

● Estimated development schedule:

- To utilize TOD (Transit-Oriented Development) mode to construct with MRT stations with smart green buildings. The overall development schedule estimated to take 5 to 6 years. (Actual planning is subject to the approval of the Authority.)



Wenxin Chongde Station Architectural Design Drawing



Wenxin Yinghua Station Architectural Design Drawing

● Location :

- Nantun Station located at the intersection of Wenxin road and Wuquan west road in Nantun District, Site area about 2,549 m², with a coverage rate of 70% and a floor area ratio of 500%. It's adjacent to the so-called G11 Art Green Gallery Wenxin Forest Park & Fengle Sculpture Park, near by Wenxin Evening Market and Wuquan Interchange connecting National Highway No. 1. Nantun Station has advantages of both MRT and highway convenience, with commercial and residential functions.

● Estimated development schedule:

- To utilize TOD (Transit-Oriented Development) mode to construct with MRT stations with smart green buildings. The overall development schedule estimated to take 5 to 6 years. (Actual planning is subject to the approval of the Authority.)



Nantun Station Architectural Design Drawing



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The Urban Renewal Project for Lot 246, Subsection 2 Gongyuan Section Zhongzheng Dist., Taipei City

● Location :

- The project is located at the cross roads of Guanqian Rd. and Xinyang Street near by Taipei Main Station. It involves land base of 2,010 m², with building coverage ratio of 75% and floor area ratio of 800%.

- Radium was selected in December 2020 the best executor for the urban renewal project of “Lot 246, Subsection 2 Gongyuan Section, Zhongzheng Dist., Taipei City.” The investment contract is signed in 2Q 2021.

- Radium plans to develop an A-class, smart green office building at the very center of Taipei public transition network, with 27-floor high and 5-floor undergrounded design constructing with steel structure and 5G smart operation management system.

● Estimated development schedule:

- 4Q2025 expected to obtain approval of urban renewal , 1Q 2026 expected to obtain approval of construction license, 3Q 2026 on-site development, 3Q 2030 completion.



The site for the urban renewal project of “Lot 246, Subsection 2 Gongyuan Section, Zhongzheng Dist., Taipei City.”

architectural design drawing

- This project is located at the district B of Qiao'an New Village with land size of around 3,431 m². It is in commercial area of Taipei City, adjacent to the cultural heritage Sun Yat-Sen Memorial Hall, with MRT station on Bannan Line nearby.
- Ji Shun Life obtained consent of every land owner for the project to reconstruct after years of coordination. The initial plan is to build up SRC green building with garden landscape around the area. The target is to reconstruct aged buildings to raise community prosperity and safety, and make effective use of increasingly scarce land resources.
- Targeting Five Major Building Certification Achievements: WELL International Healthy Building Certification, Smart Building - Gold Certification, Taiwan EEWH Certification, Low Carbon Certification and Earthquake Resistance Certification.
- Estimated development schedule: 2Q 2021 obtained approval of reconstruction plan, 1Q 2022 obtained approval of construction license, 3Q 2022 Construction commenced, 4Q 2026 expected to complete construction.
- Projected Sales Timeline: Pre-sale launch in 2Q 2023.



"Radium One" Architectural Design Drawing



"Radium One" Architectural Design Drawing



Administrative Building and Library Building Construction, National Palace Museum

- **Location :**
 - The project is located at the Zhishan Section, Shilin District of Taipei City, with a floor area around 7,256 m².
- **Estimated development schedule :**
 - The preliminary design of the administrative building and library construction had been completed in March 2021, urban design approved in August 2021, construction contract signed with the National Palace Museum in October 2022 and construction started in November 2022, with estimated construction schedule of 2 years. The whole project is expected to complete in the second half of 2024.
- "Administrative Building and Library Building Construction, National Palace Museum" is one of the sub-plans of the Executive Yuan's "New Palace Museum - midterm plan for publicizing Palace Museum to promote development of tourism industry." The aggregate planning is scheduled to be completed by 2026.
- The project is initially planned to build a 3-storey administrative building and a 2-storey library above the ground, with designs of smart green building.

Architectural Design Drawing of "Administrative Building and Library Building Construction, National Palace Museum"

Library Building

Administrative Building



Architectural Design Drawing of "Administrative Building Construction, National Palace Museum"



Architectural Design Drawing of "Administrative Building Construction, National Palace Museum"



● Location :

- The project is located at the intersection of Danjin Highway and Binhai Road, within the area of Danhai New Town. Adjacent to Tamsui Administration Center Station of Danhai light rail transit, the project land base is around 7,000 m², with Tamsui National Sports Center and Tamsui Gongba Park (disaster prevention park) nearby.

● Estimated development schedule :

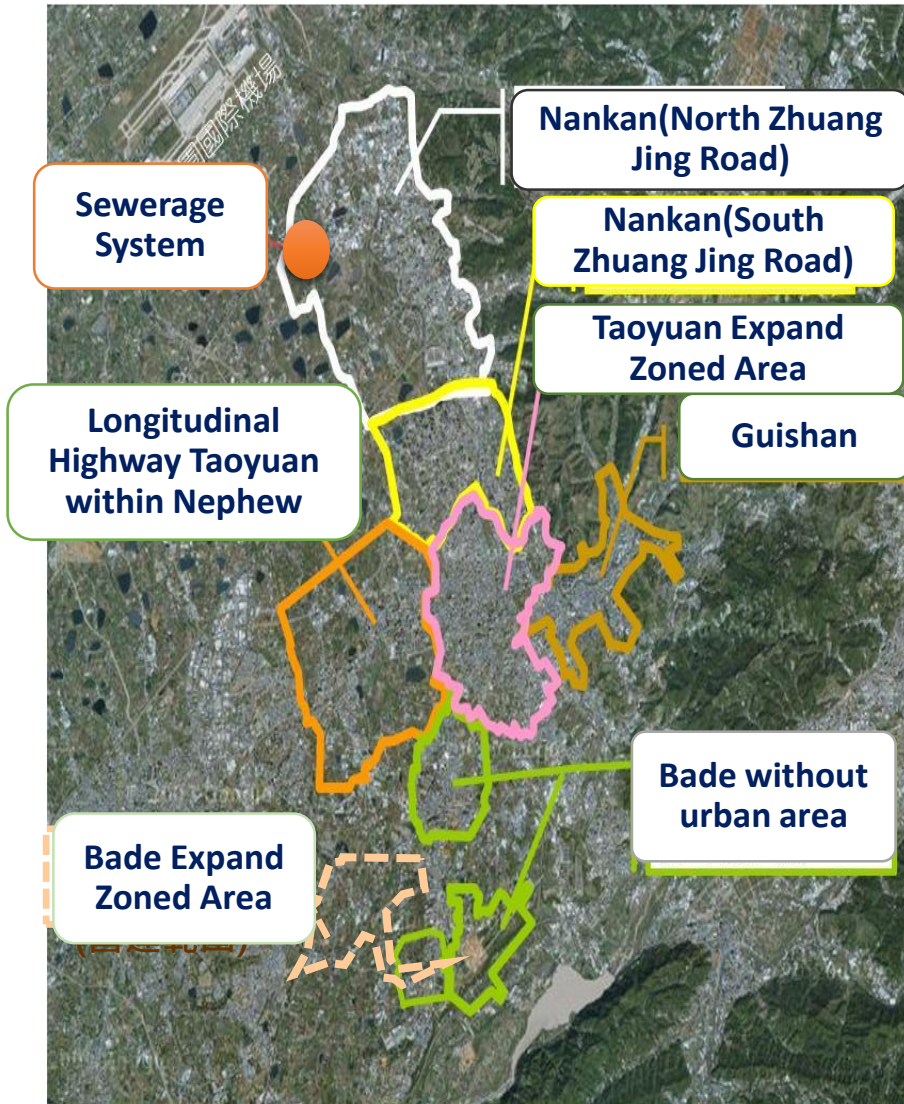
- The construction period is estimated to be 5.5 years.

- "Dan Jin Housing", with an amount of NT\$3.339 billion, is to increase 620 social housing units in New Taipei City, with 5% of which to be accessible housing. Meanwhile, accessible housing units are designed on lower floors, combining facilities such as day care center, kindergartens, central corridor plazas, and shops to strengthen the universal living environment for all ages. It is planned to obtain green buildings label, intelligent building label, and structure accreditation building labels.

- The community is planned to set aside an 8-meter-retreating green belt, integrating with sidewalks and bicycle lanes, to create a belt-shaped open green area. Utilizing concept of biodiversity, it's schemed to plant a variety of trees, shrubs, and herbs, with green recreation area in building and garden on roof-top.



Architectural Design Drawing of the social housing project "Dan Jin Housing" in Tamsui District, New Taipei City



**Six Urban Planning Area In Taoyuan Area
Total~7,610 Hectare**

Structure of Construction :

1.Sewerage System Factory:200,000 Tons/Day

2. Sewage Main Pipes :

Pipe diameter 800mm~1800mm

Total 28,805m

3. Branch Network of Pipes:

Pipe diameter 200mm~700mm

Total 256,184m

4. Household to Connect :251,447 units

**5. Affiliated Works: Water-Reclamation System
and Sludge Reclamation)**

BOT Project for Taoyuan City Taoyuan District Sewerage System -Schedule

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	2013-2017					2018-2021					2022-2026					2027-2031					2032-2047														
sewer pipe(KM)	99					66 (165)					78 (243)					42 (285)					Total about 284.99km														
User Units (10,000 units)	3.0					7.4 (10.4)					8.7 (19.1)					6.0 (25.1)					Total about 251,000 units														

Year	2016-2020	2021-2025	2026-2028	2029-2033	2034-2047									
Sewage treatment (10,000 tons/day)	5	5 (10)	5 (15)	5 (20)	Total about 200,000 CMD									

Latest Status : (Development schedule ,35 years, 2013-2047)

- ◆ Households connected to the system have reached 144,000 and connected 157 kilometers underground pipeline network in Taoyuan North District end of 1Q 2024.
- ◆ Subsidiary Rih-Ding Water Enterprise Co. has completed the second phase expansion project of Taoyuan North District Water Resources Recycling Center in Dec. 2020. Additionally, it plans to launch the third phase of Taoyuan water resource center expansion in 2024 and complete the construction by end of 2025.
- ◆ The system is now able to treat 100,000 tons of sewage a day
- ◆ With patented technologies of BioNET (bioreticulum) and MBR (membrane biological reaction) filtration, Rih-Ding Wager is now capable to generate 31,000 tons of reusable water per day.
- ◆ The third phase is designed with pre-treatment cloth filters and multi-stage inflow biological treatment at the front-end, and integrate equipment of solid-state separation secondary sedimentation tank at the back-end, plus anaerobic digestion system and recycled heat for sludge drying. The treatment process is expected to reduce carbon emissions by around 6%.



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Water BTO (build, transfer, operate) Project of North District Water Resources Recycling Center in Taoyuan

- **Location :** The base of project is located on the north side of the Taoyuan North District Water Recycling Center, at the Nanqing Section of Luzhu District, Taoyuan City, with an area of about 2.5 hectares.
- **Estimated development schedule :** The permit period forecasted to be 18 years, including construction period of 3 years and operation period of 15 years. As pipeline construction is on schedule , the first stage of system is expected to supply 10,000 tons of reclaimed water daily to Taoyuan industry zone by mid of 2024.
- **The scope of the project covering the reclaimed water treatment plant and the pipeline system transmitting reclaimed water to Guanyin Industrial Park and Taoyuan Refinery Plant, etc.** It is estimated 40,000 metric tons (CMD) of reclaimed water per day can be provided after completion of the first phase.
- **Development Concept :**
 - AI intelligent simulation prediction and automatic control are applied, and the Industry 4.0 Internet of Things (IoT) is introduced to analyze and monitor information from multiple perspectives. Using the smart power supply system to reduce carbon emissions, the energy saving effect is expected to exceed 10%. This will create the first fully automated controlled smart reclaimed water plant in Taiwan.
 - Radium also plans to create an "ESG Park" by utilizing a 16-hectare site at the North District Water Resources Center and the Reclaimed Water Plant. The plan includes preserving native trees and pond ecology with low-impact development, scheming wetland waters, micro-hydroponic farms and ecological floating island parks, as well as smart green buildings with international conference center and solar system. The design aims to balance local culture and economic development, creating an interactive environment that is friendly to the public and water resources.

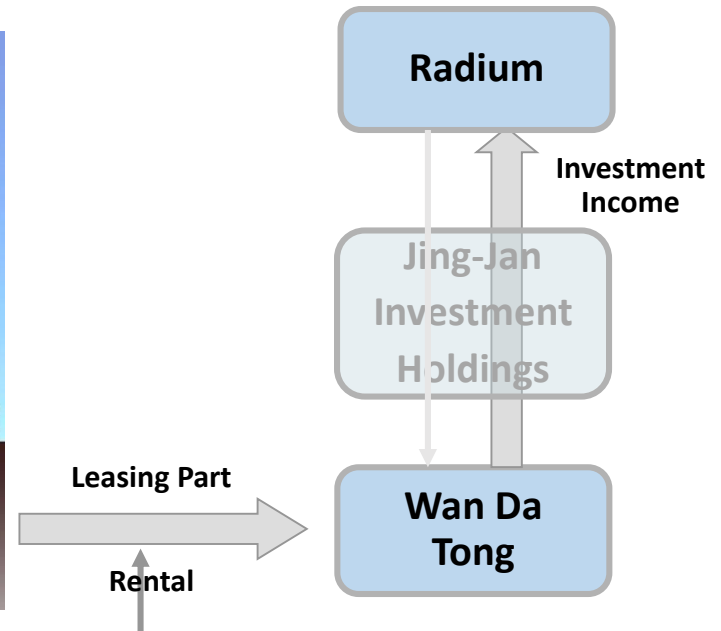


Architectural Design Drawing of “Reclaimed Water BTO Project of North District Water Resources Recycling Center in Taoyuan” and "ESG Park"



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Wan Da Tong - Taipei Bus Station & Leasing Business



Business	Hotel	Cinema	Club	Mall	Car Park	Bus Station
Area (m ²)	92,893	40,430	12,033	229,489	64,463	28,760
Mechanism	20-year Lease	20-year Lease	8-year Lease	20-year Lease	Lease	Self-operate
Operator	Hotel de Chine Co.	VIESHOW	BEING Sport	Jing-Jan Retail	Jing-Jan Retail	Wan Da Tong
Operation Date	May-10	Dec-09	Sep-09	Dec-09	Nov-09	Aug-09

Thank You



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永續綠生活集團