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- Global Experience in Water
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# **About Egis**

# IMAGINE CREATE ACHIEVE a sustainable future

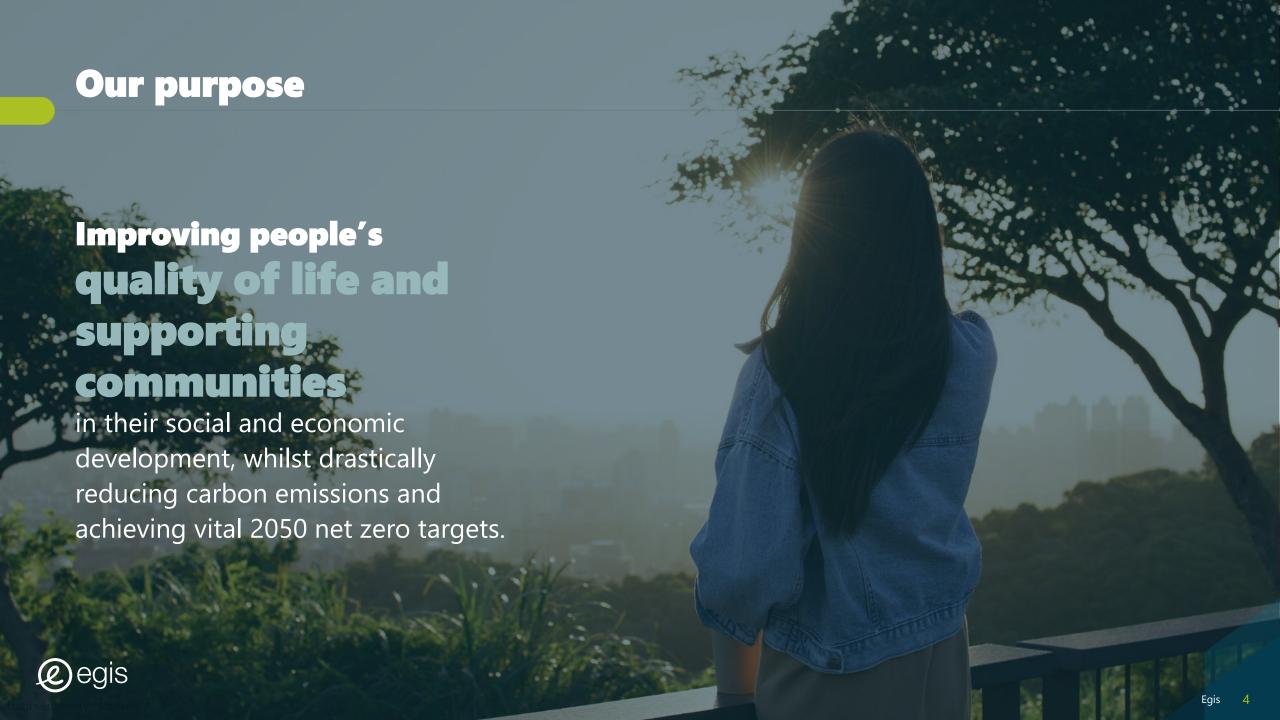
Egis is a leading global architectural, consulting, construction engineering, operations and maintenance services firm.

We create and operate intelligent infrastructure and buildings that both respond to the climate emergency and contribute to balanced, sustainable and resilient development.

Our 20,500 employees operate across over 100 countries, deploying their expertise to develop and deliver cuttingedge innovations and solutions for clients.

Through the wide range of our activities, we are central to the collective organisation of society and the living environment of citizens all over the world.





### **Our values**







Incorporating the issues of sustainability and ethics within projects and towards our stakeholders

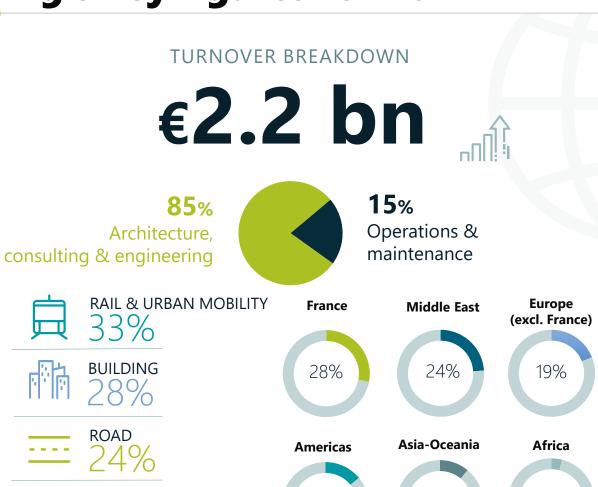


Taking a proactive stance on innovation to meet tomorrow's challenges



# Egis key figures for 2024

**ENERGY, WATER & OTHER** 



14%

29
ROAD OPERATING COMPANIES

**20**AIRPORTS

URBAN PARKING CONTRACTS IN EUROPE

€282 m

4%

**€77 m**RÉSULTAT NET
PART DU GROUPE

# ENR 16th



Engineering News Record global ranking\*

1st

FRENCH ENGINEERING COMPANY

7<sup>th</sup>

IN TRANSPORTATION MARKET

8<sup>th</sup>

IN BUILDING MARKET

\*ENR TOP 150 ranking 2024 excluding domestic Chinese companies and engineering aroups specialising in the oil and gas sector



20,500

**EMPLOYEES**IN THE WORLD

81% Architecture, consulting & engineering19% Operations & maintenance





A sustainable future



# Climate emergency, our priority

A wide range of engineering services and operational solutions

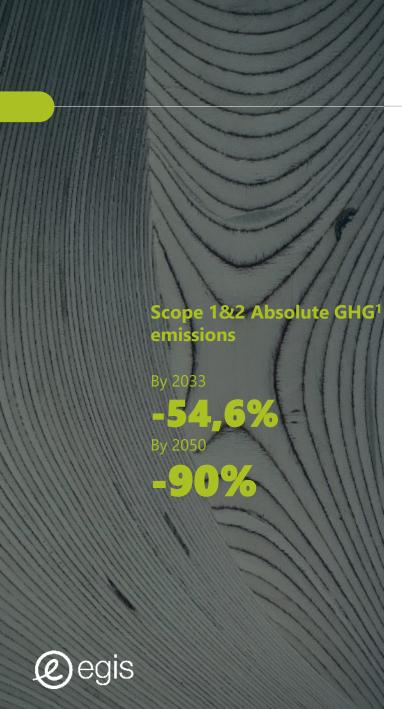
to fight against climate change and biodiversity erosion

O The use of low-carbon alternatives for our projects

with competitive timescales and costs over traditional approaches

O Committed to Energy and Ecological Transition

Egis aims to increase the proportion of projects in its business portfolio that effectively contribute to the ecological and energy transition of the areas concerned.



### Our Net Zero commitment approved by the SBTi

In 2024, Egis adopted highly ambitious greenhouse gas emission reduction targets, in line with the **Corporate Net Zero framework of the Science-Based Targets Initiative (SBTi).** These targets were officially approved by the SBTi in December 2024.

In compliance with the SBTi "Corporate Net Zero," Egis commits to reducing, relative to the reference year 2023:

Scope 3 GHG emissions		Scope 3 GHG	G emissions SCIENCE BASED TARGET
By 2033		Ву 2050	DRIVING AMBITIOUS CORPORATE CLIMATE ACTI
-61,1%	from purchased goods and services, and capital goods <sup>2</sup>	-97%	from purchased goods and services, capital goods, and the use of sold <sup>2</sup>
-61,1%	from employee commuting, per employee <sup>3</sup>	-97%	from employee commuting, per employee <sup>3</sup>
-32,5%	from business travel	-90%	From upstream fuel and energy-related activities, business travel, investments

Egis commits to **neutralise any residual emissions** once the long-term target has been achieved, to **reach net-zero emissions**.

<sup>&</sup>lt;sup>1</sup> Greenhouse Gas Protocol

<sup>&</sup>lt;sup>2</sup> per million euros of added value

<sup>&</sup>lt;sup>3</sup> which equates to the reduction of carbon intensity



# Our clients' needs at the heart of our digital strategy

Acquisition and analysis of data connected with infrastructure and its environment



New high value-added services for end users

Support for decision making, throughout project life cycles

Improvement of project management and total cost efficiencies

Building bridges between stakeholders through interactive platforms







### Modeling

Enhances visualization and analysis, enabling precise design and optimization of the structures by simulations of behavior and performance.



#### GIS

Gathering, managing, and analyzing spatial and geographic data to provide insights and patterns, that facilitate decision making.



#### **Digital Twins**

Providing real-time monitoring and optimization of physical assets, leading to improved performance.



#### BIM

Creating and managing digital models to improve collaboration, efficiency, accuracy and innovation throughout the lifecycle of a project.



### **Eco-Design**

Minimizing environmental impact through the entire lifecycle of the project

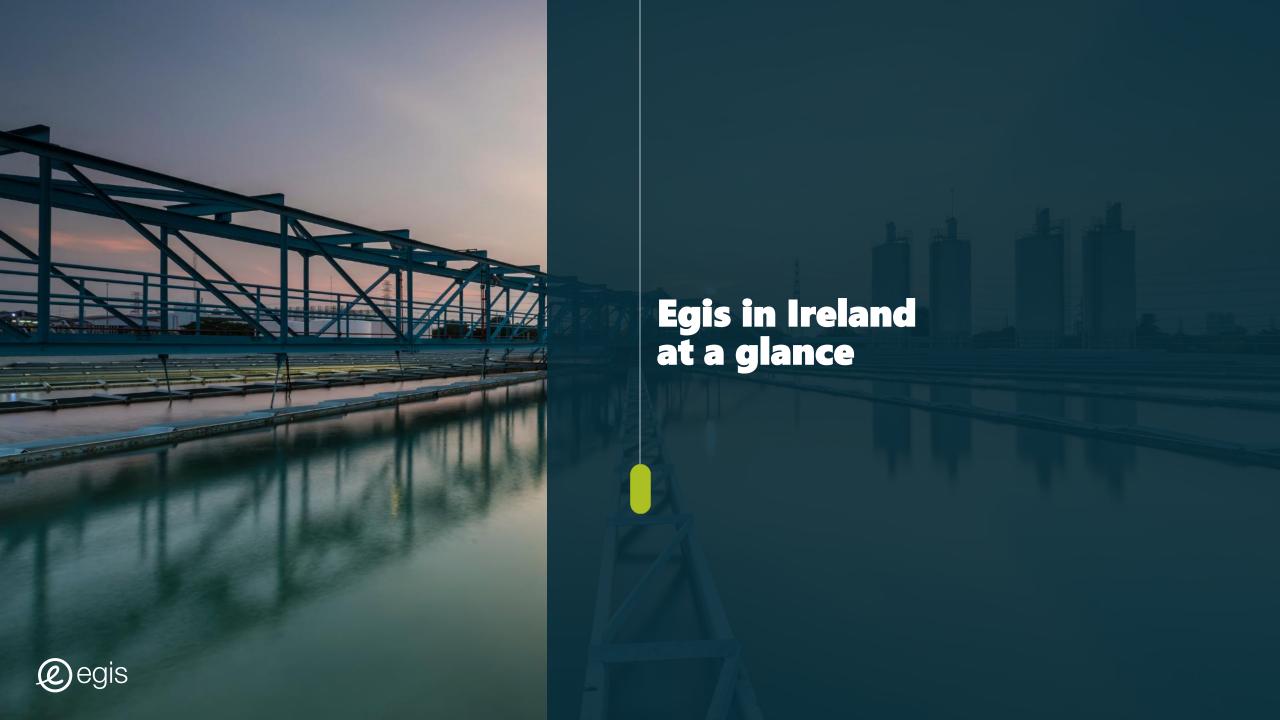


# All trades engineering & PM

Ensuring project compliance, by seamless integration and coordination of all engineering expertises



Data sensitivity - Internal



# **Egis in Ireland key figures**

**Turnover breakdown 2024** 

32% Consulting & engineering



Operation & mobility services



630+ **EMPLOYEES** 

**SITES & OFFICES** 

**ENTITIES** 



# Our offer.

### consulting, and engineering activity across the built environment

Sustainable solutions to mobility and public space management.

#### **Buildings**

- Residential
- Retail and commercial
- Industrial buildings
- Sports, hospitality & leisure
- Education, culture and administration
- Healthcare

Promoting sustainability in the design, construction and management of buildings, to optimise energy performance and occupant wellbeing.

#### **Urban Development & Transportation**

- Multimodal Transportation
- Roads, bridges & streets
- Urban Planning
- Public Development Engineering
- System Solutions

#### **Low Carbon Energy**

- Renewable energy
- Efficiency & Audits
- Solar PV
- Sustainability



Our services encompass the entire life cycle: from low-carbon production to innovative approaches to saving, reusing and distributing energy.



#### **Industry**

- Aerospace
- Data Centres
- Pharmaceuticals

Supporting manufacturers throughout the entire life cycle, from preliminary studies to building and fluid engineering, construction management and operation.

#### **Environment**

- Water
- Wastewater

- Flooding
- Environmental assessments
- EIAR Co-ordination
- Planning & Licensing

Customised innovative solutions for water management and environmental preservation to help build sustainable places to live.



# JB Barry became Egis in 2024

We are one team now offering an end-to-end services – from idea to design to operation

Operating across the entire value chain of consulting, design and operation.

This is the best way to develop smart, sustainable and efficient infrastructure.

#### **Collaboration with Supply Chain:**

JB Barry & Partners, now operating as Egis, entered into a two-party joint venture with TJ O'Connor & Associates under Uisce Éireann Frameworks 19/062 and 12/085 for the provision of engineering services. The joint venture was further supported by subconsultants Haskoning and WSP.

The same engineering teams under same leadership, backed with the vision and strength of Egis.

Access to technologies and talent of the global group invest in people, creativity and technological innovation.



### **Standards and Awards**

### 2023/4 Award wins

- **01.** FIDIC 2023 & 2024 Award of Merit
- **02.** ACEI 2023: Civil & M&E Med Project Awards
- **03.** Sustainable city construction
- **04.** Excellence in Public Sector Service Support 2023
- **05.** Irish Concrete Society 40<sup>th</sup> Annual awards 2023: Infrastructure N22 Sullane and Laney River Bridges.

#### **ISO accreditations in**

ISO 19650-2:2018 BIM\*

ISO 9001-2015 Quality Assurance

ISO 45001: 2018 Health and Safety

ISO37001 Anti Bribery

ISO50001Energy Management

ISO 14001 Environmental

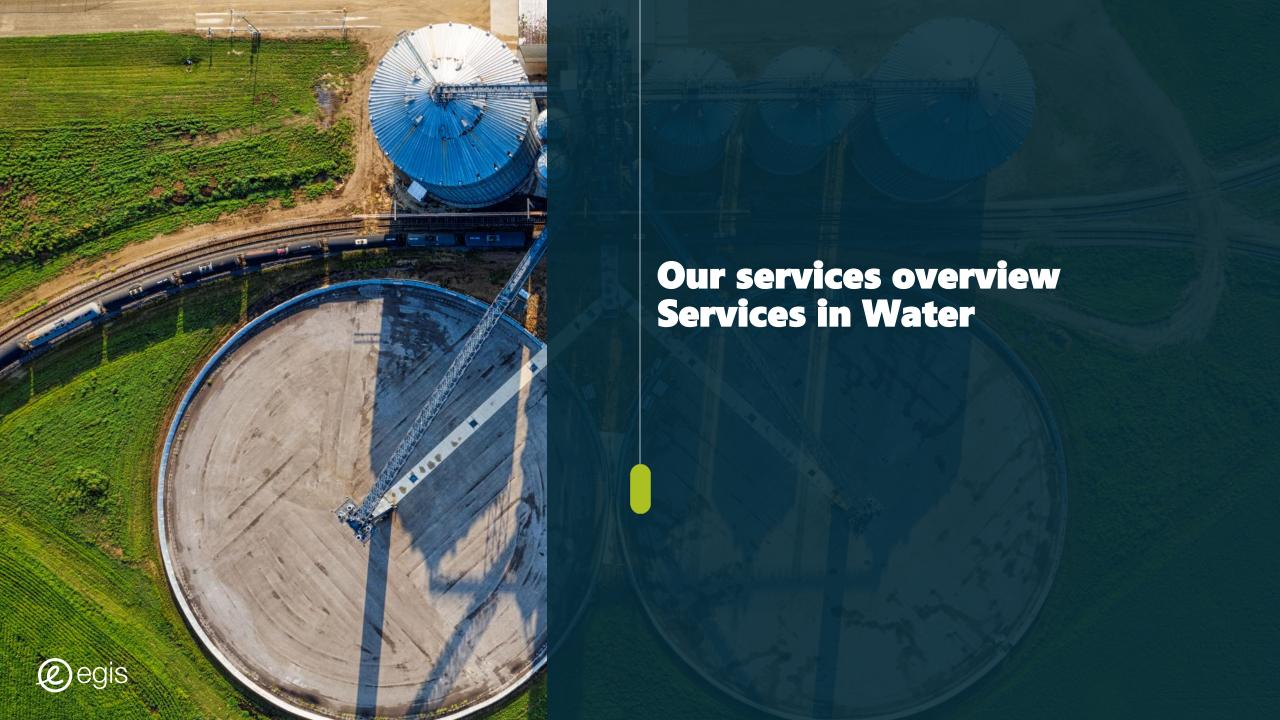
Management

\*We were an early adopter of ISO 19650 BIM: Building Information Modelling

32
INDUSTRY AWARDS
IN TWO YEARS

ISO BIM CERTIFICATION





# **ACTIVITY IN WATER**





#### **Engineering**

- Feasibility studies
- Detailed design for DBO and Contractor
- Contracting of works
- Supervision of works
- · Operation management

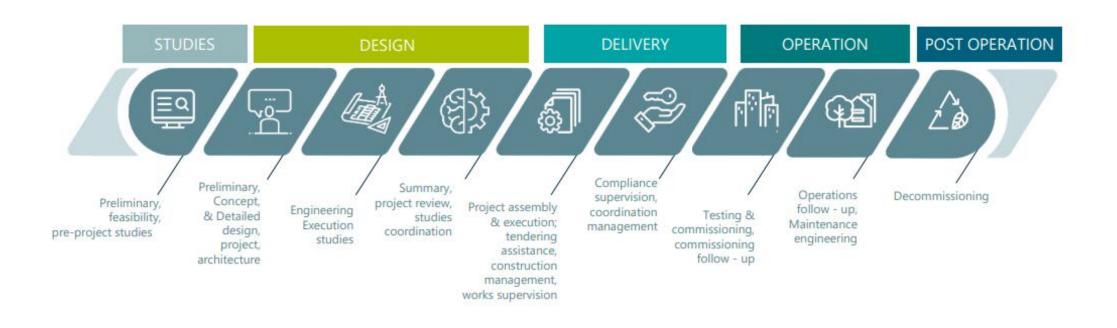
#### **Consulting**

- · Planning process & master planning
- Asset management
- Project management
- Environmental studies
- Expertise, due diligence, audit
- Strategy and institutional



# Added value throughout the whole project lifecycle

We are building a world where we as communities, thrive in harmony with our planet





### Our approach





### **Long-lasting partnerships**

We build long-lasting partnerships to manage systems and ensure they continue meeting their changing needs throughout their entire life cycle.



### **Comprehensive & tailored services**

Every project's requirements are unique, so we take a highly tailored, integrated approach to meet your needs whist always considering the 'bigger picture'.



### An integrated approach

supported by unique capability. We ensure that projects are considered as part of the whole, making them more efficient and resilient.



### A local team with global support

With experts delivering projects in over 100 countries, our local teams draw on global experience to enhance project delivery and best practice.



# Water design and management services in detail.

AN INTEGRATED MULTI-DISCIPLINARY TEAM FROM CONCEPT DESIGN TO OPERATIONS.



# GEOTECHNICAL & ENVIRONMENTAL SERVICES

- Geotechnical design
- Ecology, flood risk assessment
- EIAR co-ordination
- Planning Process



# CIVIL & STRUCTURAL & PROCESS

- Civil & Structural design
- MEICA design
- Energy efficient design
- BIM design / co-ordination
- Certified energy managers
- MV and LV design
- Measurement and verification
- SCADA and Telemetry design
- Temporary works design
- Water, wastewater and sludge process design
- Hydraulic design
- Preparation of tender documentation



### CONSTRUCTION SUPERVISION

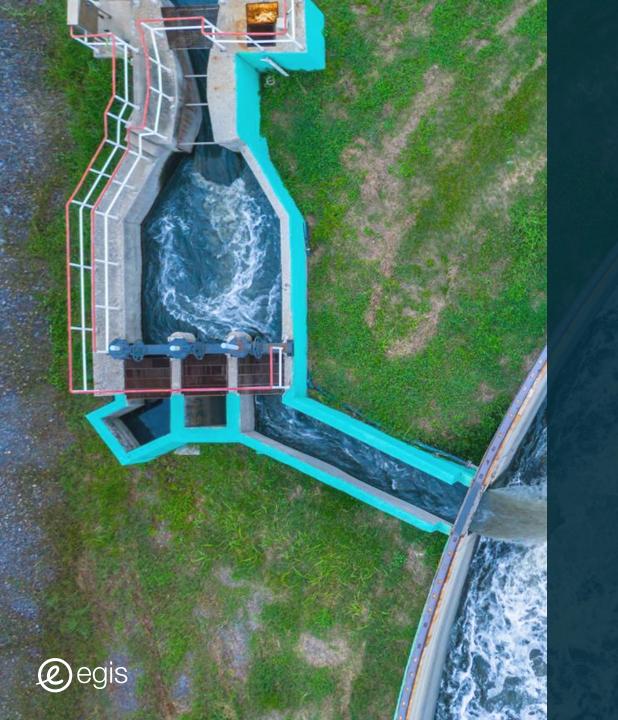
- Contract management and construction supervision
- Resident engineer services
- Project management
- Project costing and cost control
- PSDP services
- Health and Safety
- HAZOP/CHAZOP/ALM assessments
- Risk management
- Stakeholder management
- Testing & commissioning management
- Quality assurance
- · Conciliation & arbitration



### ASSET & CERTIFICATION

- Asset management
- ATEX assessment
- Building control/ Assigned certifier
- O&M and safety manuals delivery





**Key Projects - Water** 

# Ringsend WasteWater Treatment Plant Upgrade



- Upgrade to 2.4m PE (€500m capital spend)
- CUC Commissioned (400,000 PE) Commissioned Jan 2022
- Retrofitting AGS to existing SBRs (2,000,0000 PE)
  - Hybrid 1 commissioned Dec 2021
  - Block 2 & Block 3 (8 cells) Operation stage until June 2024
  - Hybrid 2 mobilised to site Jan 2024, Expected completion Oct 2025
- Sludge line enhancement contract on site May 2023 Sept 2025
- P-Fix commissioned
- Miscellaneous Works due for completion June 2027
  - Electrical Upgrade Works Commissioned April 2025
  - Biogas upgrade Expected completion Nov 2025
  - Bypass Culvert In procurement
  - Outfall repairs (sheet pile) -In procurement
  - UV upgrade: Commissioned May 2025
  - SCADA Upgrade Expected completion August 2025



### **Other Wastewater Treatment Plants**



#### **Limerick (Bunlicky) WWTP**

- Original design by JBB > 20 years ago, 130,000 PE
- Was involved in the LMC, anaerobic digestion plant
- Now upgrading to 285,000 PE
- At Preliminary Design/Planning/EIAR



# **ULVSS Osberstown WWTP** (€70M)

- Upgrade from 80,000 to 130,000 PE
- Sludge treatment facility



#### **Portrane/Donabate WWTP**

- 65,000 PE, 1km long 1000mm dia outfall
- 12 x PS, 30km pipelines



### **Sewer Networks – Limerick MD**







- 2.7m diameter tunnel, 2.58 km long
- 7.5 km of trenchless construction for interceptor sewers up to 1800m diameter
- Sewer Rehabilitation variety of techniques
- 4 Major River Crossings
- Corcanree Pumping Station, capacity 13.6m³/sec



### **Sewer Networks – ULVSS**



#### **Contract 2A**

- 3 pumping stations with stormwater storage capacity
- 4.6km of 600mm and 700mmø rising main
- 3.1km of up to 1050mmø sewer.

#### **Contract 2B**

- Demolition and reconstruction of two PS and stormwater storage capacity
- 8.3km of up to 500mmø rising main,
- 10km of up to 900mmø sewer
- 1.1Km of 600mmø trunk sewer.



### **Sewer Networks – Athlone MD**







#### **Contract No 2**

- 2.8km of gravity pipelines ranging in diameter from 225mm to 1800mm.
- Two river crossings (Upper and Lower Shannon River Crossings)
- 2 pumping stations at Golden Island and Coosan West which include:
- Pumping station, storm tank & control building
- ESB substation & ducting
- Rising mains and overflow pipeline

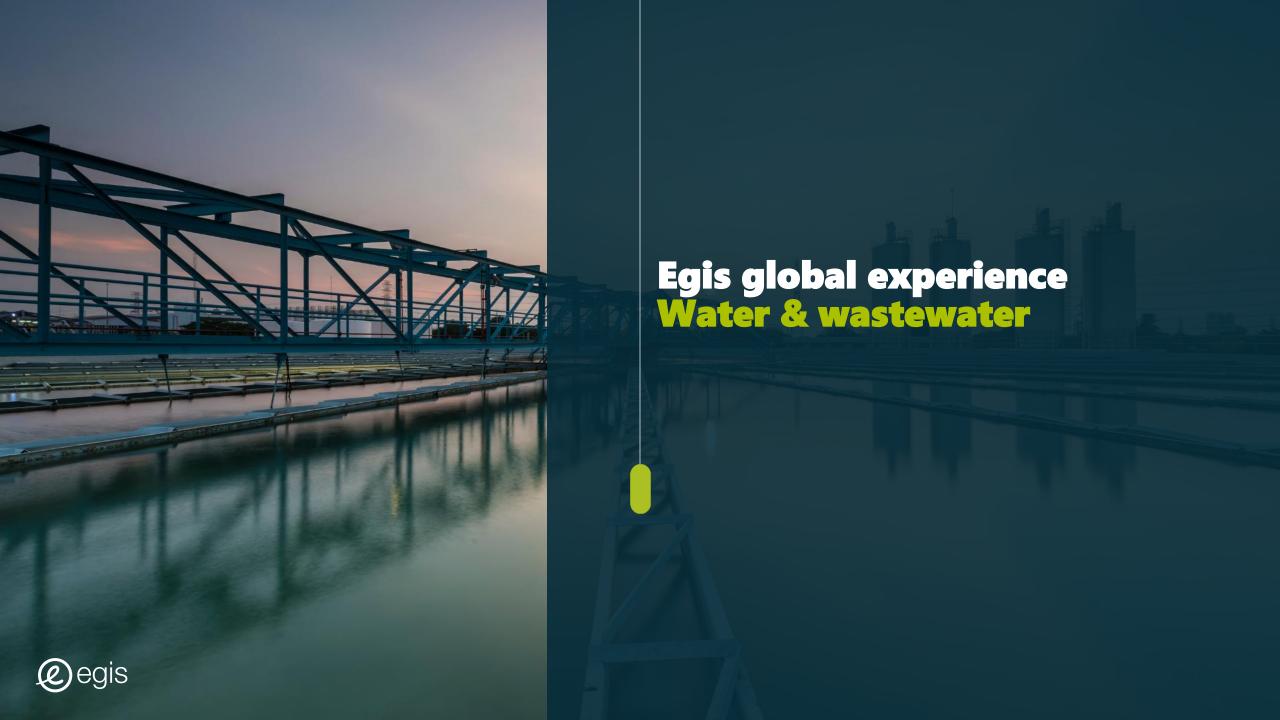


### **Lee Road Water Treatment Plant**



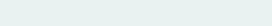
- Upgrade ex WTP to 40MLD to UE standards
- Option to retaining existing Sedimentation Tanks
- New Raw water screen, Floc tanks, Sedimentation Tanks, Filters, UV units and Clear water tanks.
- Addition of sludge handling stream for the first time.
- Pumping regimes upgraded and optimised and linked with 3 no. levels of Storage serving Cork City core area.
- Construction complete 2022





# Key global water & wastewater projects





Ulaanbaatar Wastewater recycling plant Egis has been awarded the design and construction supervision of the first wastewater recycling plant, which will reduce the demand for fresh water from Ulaanbaatar's largest industrial facilities by reusing the city's wastewater



1

Mwanza water supply, Tanzania

The project includes the extension and upgrading of water supply and sanitation in Mwanza and satellite towns, as well as in the towns of Musoma and Bukoba.



1

### La Roucarie water treatment plant, France

Egis provided project management services, managing all design and construction for this water treatment plant, with a production capacity of 11,000m3 / day serving a population of 25,000 integrating a water and sludge line. The plant was installed on 150 piles 10-15m deep n a rock base to guaranteed stability and hydraulic efficiency.



### Key global water & wastewater projects





### **Baraka Seawater Desalination Plant, Oman**

Egis was responsible for the design, review and construction supervision as the owner's engineer for the development of the largest plant in Barak to cater for the increasing water demand in Oman.





### Valedeau drinking water production plant, Montpellier

Egis has been involved in this major water resource security project since 2018. This latest upgrade set out to secure supply of drinking water needs for Montpellier, forecast to reach 1million m3 per day by 2040. This was achieved by diversifying sources, combating leaks, reducing nitrate levels. Valedeau also featured a pilot treatment for the treatment of drug residues and micropollutants.

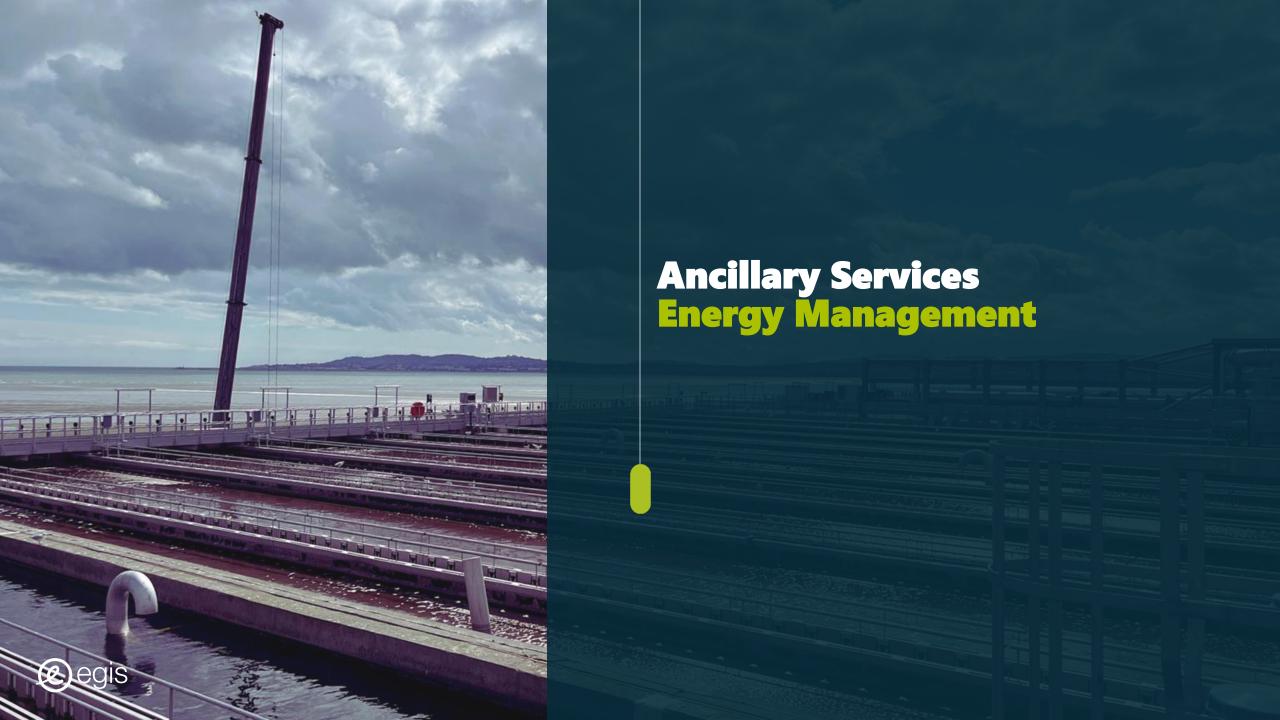




#### **Unity Water, Queensland Australia**

Egis was appointed by the Queensland State water utility, Unitywater, to deliver an Asset Management Improvement Roadmap. Our experience in water and utilities organisation operations and our detailed methodology on best practice asset management assisted Unity Water in becoming a top performing organization in its sector.





# **Energy Management Services – Uisce Éireann**



- Optimise energy use in treatment plants and pumping stations
- Original contract audit the top 50 energy usage sites
- Current contract
  - Over 150 audits carried out
  - 40 sites have energy upgrades
  - 60 Solar PV assessments, 18 with planning
  - CHP upgrades, 1 on site
  - Electrical Inspection Programme & upgrades



# **Uisce Éireann Solar Experience: Planning**







# Over 2MW of Solar projects received Planning in 2023

- Osberstown WwTP 311kW Solar PV Array
- Ferbane WwTW 45kW Solar PV Array
- Mountmellick WwTP 35kW Solar PV Array
- Ballymore Eustace WTP 880kW Solar PV Array:
  - All land and roof space reviewed
  - Most viable option selected 880kW
  - Planning Progressed





### **Ireland and UK Water Teams** .

#### **SENIOR DIRECTOR WATER Ireland and the UK**

Marcus Fagan BEng CEng FIEI FConsEl **Dublin office** 

Marcus.Fagan@egis-group.com





#### **DIRECTOR WATER Ireland**

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Engineering Team of 70 supported by GeoTechnical, BIM services and **Enviromental**