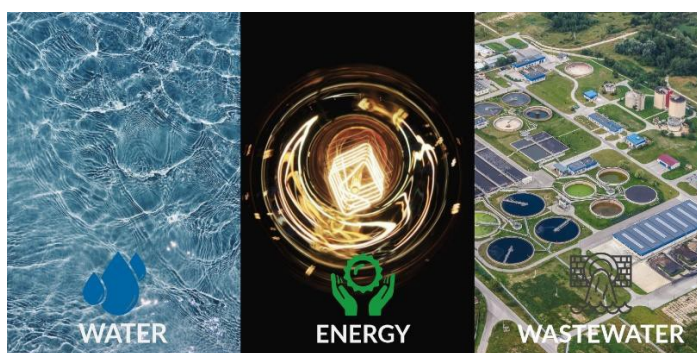




Profiling our areas of expertise and services provided, including the sustainable application of Innovation in the water, wastewater, solids and bioenergy sectors.

WEW is ISO 9000 2015 accredited, while also being a Corporate Member of Engineers Ireland, the Association of Consulting Engineers of Ireland (ACEI) and the Water Environment Federation (WEF)

CONSULTING ENGINEERS WATER | ENERGY | WASTEWATER



WEW Engineering Ltd

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Directors: Henk M. van der Puil (Dutch), Seamus M. Crickley, M. Anthony Mahon

The Company

WEW Engineering Ltd is a specialist Consulting Engineering design and management firm focused on sustainable, energy-efficient water and wastewater treatment, including waste-to-energy projects, both industrial and municipal. The company is run by its three founding shareholders, Seamus Crickley, Henk van der Puil, and Tony Mahon, supported by a team of talented engineers and CAD technicians.

Our highly professional team comprises specialist Water Chemists, Chartered Engineers, Master Planners, Field Specialists, and 3D CAD Designers. In-house water engineering specialties include chemistry and process design, with integrated mechanical electrical instrumentation and automation engineering services, all available for each project. We are recognised as international experts in this area of Engineering practice.

WEW Engineers have been applying cutting-edge technologies in the Water, Energy and Wastewater sectors, both Municipal and Industrial, for over 40 years. Since inception, the Company's reputation has been widely recognised and now equals that of leading Consulting Engineers internationally.



QUALITY
ISO 9001:2015
NSAI Certified

The logo for the Water Environment Federation, featuring a stylized blue 'W' shape. **Water Environment Federation**
the water quality people®

The logo for Engineers Ireland, featuring a stylized red 'E' shape. **ENGINEERS IRELAND**
CORPORATE PARTNER 2020

The logo for Enterprise Ireland, featuring a stylized blue 'E' shape. **ENTERPRISE IRELAND**

ACEI ASSOCIATION OF CONSULTING ENGINEERS OF IRELAND

Sectoral Expertise

Typical areas of expertise provided include the following:

- Pre-project quantification, analytical characterisation, and identification of the critical design/performance parameters on water wastewater and solids projects.
- Preliminary assessments including relative sustainability, both technical and commercial, of alternative designs to confirm the optimum solution.
- BAT design of plants to utilise most up-to-date field-proven technologies and to minimise carbon footprint, modulated in accordance with loading. Technical data sheets and all related drawings are produced in a 3D CAD environment.
- Incorporation of state-of-the-art emerging technologies to maximise biological removal of nitrogen and phosphorus, including post-treatment for recycle.
- Conditioning of feedstocks for Anaerobic Digestion and/or incineration with post-treatment of by-products for reuse or disposal.
- Systems design of most efficient energy generation and recovery facilities based on biogas, bio-methane, steam, CHP, and electricity.
- Once-off design and/or procurement services for mechanical/electrical equipment, instrumentation, and on-line control facilities to accord with the User Requirement Specification (URS) as defined by the selected process design.
- Day-to-day management of Client–Vendor contracts based on designated terms of reference for each project.
- Full-scale energy audits with reports and recommendations.

WEW Engineering has worked successfully with industrial clients, national authorities, developer agencies, consulting engineers, design/build contractors, and specialist equipment vendors. We develop cost-effective solutions incorporating Best Available Techniques (BAT) to meet the individual challenges of Clients.



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Our Services

WEW works directly with each client to identify the project requirements and fundamentals, using that the latest technologies and processes, as proven from our experience, to maximise cost-effectiveness, maximise cradle-to-cradle sustainability while minimising carbon footprint.

- Advisory Services
- Carbon Footprint and Green House Gas analysis review, and modelling
- By-product Recovery including CO2 conversion
- Project Energy Audits
- Master-planning, planning, and licencing negotiations
- On-site surveys of brownfield (existing) plants for modernisation/sustainability purposes
- Feasibility/pilot studies of defined process applications and combinations at field level
- Preliminary Design and Engineering Reports with Capex and Opex assessment
- Provision of Client Representative services as required
- Detailed Design & Engineering, including process warranty (defined parameters) and PSDP Services (Drawings and Designs are carried out using the latest AutoCAD 3D software)
- Preparation of Tender Documentation with vendor selection, and technical-commercial assessment of received tenders under agreed terms of reference
- Ongoing Client Representative services as projects progress, including checking and approval of drawings and technical submissions
- Process commissioning, testing, training, and ongoing reviews of the operating works



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Reference projects

Lead Sectors include Pharma/Biopharma, Agriculture (production and processing), Food Industry, Drinks Industry, Municipal Water, Wastewater, MSW.

Leading projects of international significance include design and engineering (with procurement services) of:

- Conventional mainstream AD pre-treatment works with biogas recovery and recycle as steam with downstream high-quality polishing operations at Mitchelstown, Cork, Ireland for the Dairygold Group. Works capacity is up to 35,000 kg/d COD (390,000 Population Equivalent, PE)
- Design/procurement of an AD system with energy recovery for Ireland's agricultural research body Teagasc, at their Grange Research Centre, which will be used to study AD performance versus feedstock composition and will be an ongoing source of information for the Irish Renewables Industry's policy direction.
- Multiphase design of the dairy wastewater treatment plant at Ballyragget, Kilkenny, Ireland for the Glanbia Group, to produce a high-quality discharge incorporating cutting-edge BNR technology, Plant capacity 32,000kg/d COD (355,000 PE).

Reference profile information booklets are available upon request which are specific to the following market sectors:

- Agriculture and Food (FDM)
- Pharma/Biopharma
- Municipal Sector
- Waste-to-Energy
- AutoCAD/BIM Services



Our Clients



Bristol-Myers Squibb



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