

### Attachment 2.5.3 – Technical Knowledge or Qualifications

Details of Dublin Waste to Energy Ltd (DWtE) technical knowledge and qualifications, along with that of other relevant employees are provided Table 1 below. Information provided includes a list of all relevant individuals' names, responsibilities and experience/qualifications.

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Table 1. DWtE Knowledge, Qualifications, Roles and Responsibilities

Name	Title	Experience/Responsibilities
John Daly (B.Comm)	General Manager, Dublin Waste to Energy Ltd.	Previously Managing Director of Bord Na Mona Resource Recovery and of Veolia Environmental Ireland. Overall responsibility for Covanta's and Dublin Waste to Energy Operations in Ireland. 12 years' experience in Waste Management
Kieran Mullins (GRSC, MSc (Chemistry).	Business Manager, Dublin Waste to Energy Ltd.	Previously Group Environmental Manager and Technical Director of Veolia Environmental Ltd. General Manager of Veolia Environmental Services Ltd. (Haz. Waste). Responsible for waste supply, ash recovery, energy trading and environmental management. 20 years' experience in Waste Management
Vincent Langone (BSc in Engineering, Massachusetts Maritime Academy).	UK & Ireland Region Operations Director, Covanta Europe Operations Ltd.	25 years' experience in the Waste-To-Energy industry. Involved in the start-up, operation, maintenance and management of several Waste-To-Energy facilities prior to Dublin. Holds ASME Qualified Waste Operator Chief Engineer License #QRO-OP1047. Oversees the operation of the WTE facility.
Donal Fanning (B.Eng (Mechanical), Chartered Eng.)	Facility Manager, Covanta Europe Operations Ltd.	Over 15 years' experience in the power generation and Waste-To-Energy industry in various operation, construction and commissioning roles. Managed the IPPC license in the role of Facility Manager for Tynagh power plant, a 400MW combined cycle gas plant in Ireland. Worked with waste, peat, coal, gas and fuel oil and has led various projects through the testing and commissioning phase in Europe, Asia, Africa and Australia dealing with the relevant local regulators. Has worked on the DWTE project since 2016. Responsible for operation of the WTE facility.
Paul Murphy. (BSc (Honours) Sustainable Energy Management, BSc Renewable & Electrical Energy Systems, National Craft Certificate, Maintenance	Maintenance Manager, (Acting Deputy Facility Manager), Covanta Europe Operations Ltd.	Over 22 years' maintenance engineering experience in heavy industrial plants (coal power, wastewater treatment, Waste-To-Energy). Prior to Covanta was employed by the Suez group

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Name	Title	Experience/Responsibilities
Technician with Merit, FETEC)		for 4 years in one of their eight Waste-To-Energy facilities in the UK. Involved at the Suffolk project recruiting and training all maintenance and engineering staff, setting up the maintenance department and supporting EPC commissioning through to stable operation. Coordinate and supervise the activities of the maintenance group and Deputy to the Facility Manager. He has worked on the DWTE project since 2016.
Mark Heffernan (MSc Environmental Protection, BSc Hons, Dip.Eng)	Environmental Manager, Covanta Europe Operations Ltd.	Previously Deputy Facility Manager Arthurstown Landfill. Responsible for overseeing environmental performance of facility and ensuring compliance with Site License. 21 years' experience in waste management and license compliance. He has worked on the DWTE project since 2016.
Stephen Murphy (Construction Studies)	Health & Safety Manager, Covanta Europe Operations Ltd.	Over 9 years' experience in the Waste-To-Energy industry in various operational roles including shift team leader at the Indaver facility. Experience in Waste-To-Energy plant start up and commissioning. Previous experience in heavy industry working in a supervisory role as a quarry manager. Responsible for the coordination and supervision of the day-to-day activities of the assigned operations staff. He has worked on the DWTE project since 2016. Managing Health & Safety at the DWTE facility since Sept 2017.
John Comey (City and Guilds in Maintenance Technology)	Shift Supervisor, Covanta Europe Operations Ltd.	Over 9 years' experience in the Waste-To-Energy industry in various operational roles including shift team leader at the Indaver facility. Experience in Waste-To-Energy plant start up and commissioning. Developed emergency procedures with a particular emphasis on fire management. Significant previous experience in the semi-conductor industry with a particular focus on preventative maintenance. Responsible for the coordination and supervision of the day-to-day activities of the assigned operations staff. He has worked on the DWTE project since 2016.

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Name	Title	Experience/Responsibilities
Robert Andrews (BEng (Civil))	Shift Supervisor, Covanta Europe Operations Ltd.	Over 9 years' experience in the Waste-To-Energy industry in various operational roles including shift team leader at the Indaver facility. Developed specific projects including the mapping of thermal load in relation to the calorific value of the waste fuel. Responsible for the coordination and supervision of the day-to-day activities of the assigned operations staff. He has worked on the DWTE project since 2016.
John Finnegan (FAS Apprenticeship in Carpentry and Joinery)	Shift Supervisor, Covanta Europe Operations Ltd.	Over 9 years' experience in the Waste-To-Energy industry in various operational roles including Shift Team leader at the Indaver facility. Experience in two Waste to Energy plant start up and commissioning. Significant experience in boilers, flue gas treatment, turbine generators, and the general day to day running of facilities. Previous heavy industry experience with Irish Cement. Responsible for the coordination and supervision of the day-to-day activities of the assigned operations staff. He has worked on the DWTE project since 2016.
Declan Finnegan (BEng in Marine and Plant Engineering)	Shift Supervisor, Covanta Europe Operations Ltd.	Over 14 years' experience in Plant Operations and Maintenance in the Energy Industry (Veolia). Acted as Steam Boiler Specialist at Pfizer Grangeacastle and spent 9 months at sea working in the Engine Room (steam turbine). Responsible for the coordination and supervision of the day-to-day activities of the assigned operations staff. He has worked on the DWTE project since Jan 2017.
Robert Nolan (BEng in Energy and Environmental Engineering)	Shift Supervisor, Covanta Europe Operations Ltd.	5 years' experience in the Waste to Energy and Cement Industry. Acted as Control Room Operator for Covanta and also Control Room Operator and Kiln Operator for Lagan Cement. Responsible for the coordination and supervision of the day-to-day activities of the assigned operations staff. He has worked on the DWTE project since Jan 2017.

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Name	Title	Experience/Responsibilities
Tadgh O'Connor (B.Eng (Mech))	Process Engineer, Covanta Europe Operations Ltd.	Over 14 years' experience in the Waste-To-Energy and power generation industry in construction, commissioning and O&M roles. Performed the role of shift team leader, resident engineer and project manager. Worked on Waste-To-Energy, wood burning and multiple power generation projects including gas, oil and coal. Has designed water run off systems for various plants. Responsible for the coordination and supervision of the day-to-day activities of the assigned operations staff. He has worked on the DWTE project since 2016.

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