

Tony Traill

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AWARDS, PUBLICATIONS, PRESENTATIONS	
Action Renewables Awards 2009	Most energy efficient domestic design
Northern Newspaper Group 2008	Property Supplement Energy Guide
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All Energy 2011	Interviewer & presenter of live webcast
Northern Homes Expo 2009	Grants & Renewable Energy Seminars
LAMMA Fair 2009	Slurry Aeration Press Presentation
Irish Historical Housing Association 2009	Heating & Energy in Historic Houses Keynote Speaker
CURRENT PROJECTS	
Small Wind Turbine - 50kW	Experimental turbine site - Planning Permission
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Medium Wind Turbine - 250kW - Castlederg	Noise Assessment
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Medium Wind Turbine - 225kW - Derry/Londonderry	Wind speed logging, feasibility, planning statements (including noise assessment) Planning applications. (Planning pending)
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Medium Wind Turbine - 225kW - Fermanagh	Wind speed logging, feasibility, planning statements (including noise assessment) Planning applications. (Logging commenced)
Medium Wind Turbine - 250kW - Feeny	Wind speed logging, feasibility, planning statements (including noise assessment) Planning applications. (Planning pending)
Medium Wind Turbine - 250kW - Cookstown	Wind speed logging, feasibility, planning statements (including noise assessment) Planning applications. (Logging Commenced)
Medium Wind Turbine - 225kW - Meath	Wind speed logging, feasibility, (logging Commenced)
Small Wind Turbine - 11kW	Wind speed logging, feasibility, planning statements (including noise assessment) Planning applications. (Planning Pending)
Low Carbon Building - New Build Larchfield	Report, Schematic designs, tender documentation, tender process, site supervision and commissioning. (Tender Completed)
Low Carbon Building - New Build Ringhaddy	Report, Schematic designs, tender documentation, tender process, site supervision and commissioning. (Tender Completed)
Low Carbon Building - New Build - Burt, Co. Donegal	Report, Schematic designs, tender documentation, tender process, site supervision and commissioning. (Tender Completed)
Historic House Heating Installation - Killyleagh Castle, Killyleagh	Report, Schematic designs, tender documentation, tender process, site supervision and commissioning. (Tender Issued)
Historic House Heating Installation - Finnebrogue House - Downpatrick	Report, Schematic designs, tender documentation, tender process, site supervision and commissioning. (Commenced)
Historic House Refurbishment - Inishcoo Island - Burtonport	Complete refurbishment. Advice on building elements, drainage, ventilation, vapour control, insulation, heating system (heat pump from sea), power (possible tidal turbine), rain water harvesting and treatment, internal water system, sewage treatment. (Reports Complete)
EXPERIENCE	
Nov 06 - present	Element Consultants Ltd
Expert Witness	Survey to support court action for failed pellet boiler / solar thermal installation- Killinchy - Case won

Expert Witness	Survey to support court action for failed aga/oil boiler/ solar system. - Comber - Case settled out of court
Expert Witness	Survey to support court action for failed oil boiler and wood burning boiler integrated system - Glenariff - Case won
Small Wind Farm - Heritage Assessment - Melton Mowbray, Leicestershire	Heritage Assessment. English Heritage recommended refusal. We successfully argued against English Heritages recommendation and planning permission was granted.
Wind Turbine Noise Assessments	We have completed fifteen wind turbine noise assessments to date, including cumulative noise assessments showing compliance with ETSU - R -97
Low Carbon Building - 4 apartments - Heritage Lottery Funded - Bushmills Old Shirt Factory	Heat loads, insulation and ventilation measures, space and DHW water system, distribution, controls. Metered community heating system; air source heat pump backed up by condensing oil boiler, fan coil radiators; Report, Schematic designs, tender documentation, tender process, site supervision and commissioning.
Historic House Energy Audit - Enniscoe House, Ballina, Co. Mayo	Energy Audit. Insulation opportunities, ventilation reduction opportunities. Optimise current heating system. Feasibility study for optimum future heating system
Historic House Heating Feasibility - Arngibbon House, by Kippen, Scotland	Feasibility to optimise existing Heating and DHW System - Heat loads, insulation and ventilation measures, space and DHW water system, distribution, controls. Sources likely to be oil CHP.
Historic House & Stud Farm Feasibility - Triermore House, Athboy, Meath	Total refurbishment. Consulting on water, waste, insulation & construction detail, heat and power - heat pumps and 250kW wind turbine.
Historic House Heating Feasibility - Hilton Park, Clones, Monaghan	Self contained wood and electrical system for new flat. Multiple modulating oil boiler system for main house
Historic House Biomass Study - Ashbrooke, Colebrooke Desmesne, Fermanagh	Feasibility for Log and wood chip system with local district heating
Historic House Energy Feasibility - SEIA Funded - Ash Hill Towers, Kilmallock, Limerick	Feasibility Optimised New Heating and DHW System - Heat loads, insulation and ventilation measures, space and DHW water system, distribution, controls, Sources including Heat Pumps, Log, Chip, Miscanthus, Oil
Historic Building Energy Study - Heritage Lottery Funded - Cushendun Old Church	Study for refurbishment of Cushendun Old Church into an Arts Centre
Historic Buildings Energy Study - St Patricks Purgatory, Lough Derg	Survey and report examining solar thermal, heat pumps etc. Solar thermal system now installed.
Biofuel CHP Feasibility Study - Carbon Trust Funded	Re commission existing Biofuel generator, feasibility study for absorption cooling and heating to achieve CHPQA status.
Passivhaus Design & Commissioning	Insulation, Ventilation and M & E Design for new build. Portrush
Wind Farm Feasibility Study	Using new PPS18 and Supplementary Guidance for Wind Farms methodology. Derry
Slurry Aeration System - InvestNI funded	Linton Robinson - ASBS. Designed and implemented Invest NI funded new business - slurry aeration system. Installed across europe
Commercial Electrical Contract	Reverse auction to secure new best price electrical contract for UK property holding company.
Failed System Survey; re design, Project Management & Commissioning	Failed solar thermal and wood burning stove installation - Broughshane
Failed System Survey; re design, Project Management & Commissioning	Failed grant aided pellet boiler installation - Omagh. Re designed and new boiler installed.
Low Carbon Building Study	House Renovation - Newry - specified insulation, air source heat pump, wood boiler.
Low Carbon Building Study	New build Portrush - Wind Turbine, Air source Heat Pump and solar thermal system with MEVHR
Low Carbon Building Study, Design, Project Management & Commissioning - Action Renewables Awards 2009 Winner	New build Coleraine - Specification of construction details, services and plant including all insulation details, air source heat pump, oil backup, solar thermal and wood stove with back boiler. Also sewage treatment system.

Low Carbon Building Study, Design, Project Management and Commissioning	Renovation - Portrush. Specification of construction details, services and plant including all insulation details, pellet boiler, oil backup, solar thermal and wood stove with MEVHR.
Domestic Wind Turbine Feasibility Studies	More than 25 completed in 2007/ 2008 throughout NW Ireland
Low Carbon Building Study	Aghadowey; Heat pump and solar with MEVHR
Low Carbon Building Study	Ballyclare; Air heat pump, solar thermal, MEVHR
Low Carbon Building Study	Limavady; Air heat pump, solar thermal, MEVHR, wind turbine
Low Carbon Building Study	Ahoghill; Air Heat pump, solar thermal, rainwater harvesting, MEVHR
Renewable Heating Feasibility	Culmore; Biomass (small pellet)
Energy and Environmental Feasibility Study	Ness Garden Centre; Lighting, Micro Hydro, Waste water treatment and water harvesting.
Low Carbon Building Study	Maghera; Off grid new build
Renewable Heating Feasibility, Design & project Management	Doagh; Solar heated swimming pool
Renewable Heating Feasibility	Belfast; Solar thermal preheat, pellet boiler, oil backup
Energy Survey	Strabane Enterprise Agency
Environmental Report	Linton Robinson, Strabane; Report on Korean food waste disposal systems
Environmental Report	Linton Robinson, Strabane; Report on American air curtain incinerators
Renewable Heating Feasibility	Islandmagee; solar thermal pre heat, Wood stove boiler, pellet boiler back up
Renewable Heating Feasibility, Design & Project Management	Breckenhill Ltd, Doagh. Log boiler and master buffer tank feeding slave buffer tanks, solar thermal pre heat and pellet boiler boost.
Renewable Heating Feasibility	Bushmills; Solar thermal preheat with pellet boiler
Renewable Heating Feasibility & system fault finding	Ballyclare; existing system failing. Faults found, recommended solution & biomass heating
Renewable Energy Report	Linton Robinson; Anaerobic Digester Biogas feasibility in Ireland
Biomass Feasibility Study - SEIA Funded	Ballybofey, 2MW system.
Design & Project Management	Claudy, 75kW wood chip boiler & solar pre heat system
Design & Project Management	Belfast, Wood Pellet, Solar preheat and oil backup system
Dec '05 - Nov '06 Zero Carbon Home - Project Design & Manager	Design and Build of 2500 sq ft zero carbon home in Northern Ireland concentrating on renewable energy and recycling. Appraisal, selection and design of all services and building envelope. Achievements: Delivered project on time and under budget. Recyclables include rainwater harvesting & MVHR; renewables include wind turbines, heat pump, solar thermal and biomass stove with boiler.