Emma Raymont PE

Director of Engineering

Emma Raymont PE, CEM is the Director of Engineering at MaGrann Associates. She coordinates and supports a team of engineers who provide energy efficiency and mechanical design consulting services for new and existing residential, multifamily and mixed use buildings. Emma holds a dual BS degree in Civil and Architectural Engineering from Drexel University as well as a BA from McGill University.

Emma provides leadership for an integrated design process that optimizes the energy performance and cost effectiveness of projects. Her role includes design phase coordination with builders, architects civil and structural engineers as well as construction phase verification and consulting.

Emma also provides technical support for existing building diagnostic services and quality assurance programs for MaGrann. Her responsibilities include evaluation of existing mechanical systems, retro-commissioning, design for energy upgrades, commissioning and post installation measurement and verification.

Professional Experience

Engineering Design

Emma is a licensed Professional Engineer in multiple states, responsible for the technical direction of residential MEP design and consulting teams. She has worked as a design engineer with MaGrann since 2002 and is one of the firm's senior experts in high performance homes, buildings and systems, including decarbonization and electrification strategies for complex existing scenarios.

Among her many accomplishments, she is responsible for MaGrann's program design support and technical implementation of PSE&G's award winning Residential Multifamily Housing Retrofit Program (now statewide under Engineered Solutions).

Subject Matter Expert

Emma is a frequent presenter on topics related to building performance and electrification strategies, including the Net Zero Carbon Conference, National Home Performance Conference, GBU Sustainability Symposium, EEA Annual Policy Conference, among others.

She has extensive training experience, both internally and externally for clients and programs, on topics ranging from heat pump fundamentals for HVAC contractors to understanding building science for Realtors.

Recent Project Experience

Nutley Gardens, NJ – Electrification retrofit of a 200-unit garden style multifamily complex from central oil/gas boilers with distributed hot water and window A/Cs to individual ducted minisplit heat pumps, combined with envelope measures (air sealing & insulation) resulting in significant EUI savings and improved resident comfort.

Hillandale Gateway, MD – Engineering design for an all-electric new construction multifamily and senior, mixed use/mixed income development in two 11-story towers with on-site PV, pursuing Passive House, LEED and ENERGY STAR certification through a collaborative integrated design process.

Somerville Station, NJ – Engineering design for a 4-story mixed use, multifamily LEED and ENERGY STAR certified project in multiple buildings at a complex, transit centered site.

Expertise

Engineering (MEP) design, building electrification, multifamily retrofit strategies, green building consulting, energy code compliance, ASHRAE Level I/II/III energy auditing, energy modeling, program cost effectiveness compliance, project management and construction administration, quality assurance program design, building science training,

Qualifications

Licensed Professional Engineer (PA, DC, CT, OH, MA)

Certified Energy Manager (AEE)

Years of Experience

22 years

Education

BS Civil and Architectural Engineering, Drexel University, Philadelphia

BA, McGill University, Montreal, Canada

Memberships/Affiliations

Board Member, Green Building United, Philadelphia

Association of Energy Engineers, New Jersey Chapter

ASHRAE, Philadelphia Chapter