



Michael Mullarney
Technical Sales

Sample of CHP Hotel Installations

- Burlington Hotel
- Sheraton Hotel Athlone
- Jury's Hotels Ballsbridge, Custom House Dock and Cork
- Rochestown Park Cork
- Radisson Hotels Dublin, Athlone and Cavan
- Maryborough House Hotel Cork
- The Heritage Killenard

CHP Benefits

Specifier

- Free feasibility study
- Proven technology
- Widely accepted low carbon tech

CHP USER

- Significant Primary energy cost savings
- 30% SEI Grant available on total Installation costs
- Finance options available

Environment

- Lower CO₂ Emissions
- Lower SO₂ Emissions
- No Transmission losses
- Best use of Natural Gas

Lyrath Estate Hotel

Combined Heat and Power Study



Technology: Reciprocating gas engine CHP supplying heat, hot water and electricity to the hotel
• CHP Elec. 150 kW_e • CHP Heat 231 kW_{th}

Location: Lyrath Estate, Co. Kilkenny

Results: Net energy cost savings of €60,000 and CO₂ savings of 250 tonnes per annum

Owners Perspective

“It’s fantastic – our CHP plant provides all the central heating and hot water for the hotel. Since its installation we have optimised the systems performance and overall we’re extremely happy with it. As backup for the remainder of the hotel’s electricity requirements, we also decided to install a 600 kW generator. This means that along with the substantial annual cost savings we have a completely self sufficient electricity supply during ESB outages with all our electricity requirements being provided on site by a combination of the CHP plant and generator.”

Billy Bradley, Maintenance, Manager Lyrath Estate

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Economic/Environmental Benefits



Economic

- Capital Cost: €145,000
- CHP Fuel Costs: €80,000 per year
- CHP Maintenance Costs: €9,000 per year
- Electricity Savings: €94,000 per year
- Thermal Savings: €55,000 per year
- Annual Savings: €60,000 per year
- Payback Period: 2.5 years

Environment

- Annual Energy Savings: 400,000 kW per year
- Annual CO2 Savings: 250 tonnes per year



A Solar Powered Cow !