

# Base load (IPP)

## IMG Development LLC, USA



### Gas engines for distributed power in the northeastern US

In the spring of 2017, two new Rolls-Royce power plants went into operations in Pennsylvania, US, for Power Generation Solutions Company, IMG Midstream.

Both the Alpaca Energy and Milan Energy gas reciprocating engine power plants are powered by three nominal 7MWe Rolls-Royce medium speed gas engines B535:40V16AG2 gensets. In total, the plants will feed up to 40 MW of electric power into the local grid, which is enough to provide power to more than 30,000 homes. The plants produce electricity for wholesale distribution and consumption within the PJM interconnection, improving the reliability of electric supply locally.

Mike Brady, CEO of IMG Midstream commented: "Rolls-Royce delivered on their technical promise of high quality, reliable and operationally cost effective gensets. They are an excellent fit to an energy market where flexible gas generation is critical to supporting dynamic energy supply and consumption patterns."

IMG Midstream's plants are built to support quick start, dynamic load demands. Hence, the engines' capability of quick starting and rapid load changes on a daily basis, or even more often, were key in this project. Rolls-Royce's medium speed gas engines have an excellent track record of supporting fast and frequent load changes with a start time of four and a half minutes from start command to full rated power output.

Both plants are categorised as typical small-scale natural gas power generation plants, which is complementary and enabling to a growing fleet of renewable assets and micro grid infrastructures.

In addition to the generating sets, Rolls-Royce supplied engine control cabinets, generator control cabinets, plant operating systems and ancilliary systems. Rolls-Royce is also providing spare parts and maintenance for the two plants under a long-term supply contract.

Owner/customer:	IMG Midstream LLC
Place:	Pennsylvania, USA
In operation:	2017
Delivery scope:	S03 – Power Plant
Genset type:	6 x B535:40V16AG2
Total output:	40 MWe
Fuel:	Natural gas
Service agreement:	S3, full maintenance



Bergen Engines is a subsidiary of Rolls-Royce Power Systems, supplying medium-speed gas and liquid fuel engines for a broad range of power generation applications. Bergen Engines supports your business with reliable power solutions from 2,000 kW to 12,000 kW per engine, and complete power systems with a total capacity of up to 1 GW.

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