

Integrated energy services for the industrial sector: an innovative model for sustainable electricity supply

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Abstract— Liberalization policies, the challenges of integrating distributed generation resources, and the recent flattening of electricity demand due to the economic crisis and technological change have led to lower returns for European electricity suppliers. Innovative and sustainable business models are needed to serve electricity customers while reflecting the operational needs of the system and maintaining supplier financial viability. This paper describes a novel model of Integrated Energy Services that encompasses distributed generation (DG) and demand response (DR) resources for industrial customers. We further reflect on some of the market opportunities and regulatory drivers for the development of similar schemes across Europe.

Index Terms— Electricity supply; Demand Response; Innovative regulation

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Citation:

Gaspari, M.; Lorenzoni, A.; Frías, P.; Reneses, J.; "Integrated energy services for the industrial sector: an innovative model for sustainable electricity supply", Utilities Policy, vol.45, pp.118-127. April, 2017.