

Mechanical Switched Capacitors (MSC/MSCDN) – Reference List



The picture shows a MSCDN for National Grid Company, U.K.

This reference list gives an overview of Siemens' Mechanical Switched Capacitors (MSC) technology for reactive power compensation and power quality management projects for utility applications.

Siemens has always been a leader in the reactive power compensation business, both in conventional and new technologies. Reactive power compensation based on Thyristor controlled technology started in the early 1970's with various applications of thyristor controlled booster magnets and arc furnace flicker control. Siemens' first Static Var Compensator for utility application was ordered in 1980 by the Brazilian utility Companhia Hidro Elétrica do São Francisco (CHESF).

Because of its in-house resources and world-wide presence Siemens is able to cover all fields of Reactive Power Compensation and Power Quality Management. The scope of services includes network planning, consulting, design, manufacturing, testing, project management, installation, commissioning, maintenance and service of all types of Reactive Power Compensation systems. Siemens also spends considerable effort in developing new strategies and technologies for use in tomorrow's transmission and distribution networks.

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Abbreviations:

MSC **M**echanical **S**witched **C**apacitor

MSCDN **M**echanical **S**witched **C**apacitor **D**amping **N**etwork

FACTS **F**lexible **AC** **T**ransmission **S**ystem

Award	Customer	Station	Type	Voltage	Rating	Remarks
2013	RTE, France	Lesquive	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	Vesles	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	Argoeuves	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	2 x Taute	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	2 x Rougemontier	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	2 x Mezerolle	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	Cantegrit	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	2 x Verfeil	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	Saucats	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	2 x Tamareau	MSCDN	400 kV	150 MVA _r	Turnkey Project
2013	RTE, France	2 x La Gaudiere	MSCDN	400 kV	150 MVA _r	Turnkey Project
2012	National Grid Company, U.K.	Stella	MSCDN	400 kV	225 MVA _r	Turnkey Project
2012	National Grid Company, U.K.	Hutton	MSCDN	400 kV	225 MVA _r	Turnkey Project
2012	National Grid Company, U.K.	Harker	MSCDN	400 kV	225 MVA _r	Turnkey Project
2011	RWE, U.K.	Gwynt Y Mor	MSCDN	132 kV	40 MVA _r	Turnkey Project
2010	Saudi Electric Company, Saudi Arabia	Hiteen	MSCDN	225kV	200 MVA _r	Turnkey Project
2009	Saudi Electric Company, Saudi Arabia	Quassim	MSCDN	132kV	200 MVA _r	Turnkey Project
2009	RTE, France	La Gaudiere	MSCDN	225kV	80 MVA _r	Turnkey Project
2009	RTE, France	St Vincent	MSCDN	225kV	80 MVA _r	Turnkey Project
2009	RTE, France	Tamareau	MSCDN	225kV	2x80 MVA _r	Turnkey Project
2009	RTE, France	Arles	MSCDN	63kV	20 MVA _r	Turnkey Project

Award	Customer	Station	Type	Voltage	Rating	Remarks
2007	National Grid Company, U.K.	Harker	MSCDN	400 kV	225 MVA _r	Turnkey Project
2007	National Grid Company, U.K.	Harker	MSCDN	275 kV	150 MVA _r	Turnkey Project
2007	National Grid Company, U.K.	Wymondley	MSCDN	400 kV	225 MVA _r	Turnkey Project
2006	National Grid Company, U.K.	Staythorpe	MSCDN	400 kV	225 MVA _r	Turnkey Project
2006	National Grid Company, U.K.	Grendon	MSCDN	400 kV	3x225 MVA _r	Turnkey Project
2006	National Grid Company, U.K.	East Claydon	MSCDN	400 kV	225 MVA _r	Turnkey Project
2005	RED Eléctrica de España, Spain	Benejama	MSCDN	220 kV	100 MVA _r	Turnkey Project
2005	RED Eléctrica de España, Spain	Saladas	MSCDN	220 kV	100 MVA _r	Turnkey Project
2005	National Grid Company, U.K.	Sudon	MSCDN	400 kV	2x225 MVA _r	Turnkey Project
2005	National Grid Company, U.K.	Beddington	MSCDN	132 kV	45 MVA _r	Turnkey Project
2005	Southern California Edison, USA	Devers	MSC	500 kV	165 MVA _r	Turnkey Project with SVC
2005	CONCO, Ghana, South Africa	Ahafo	MSC	8 kV	16 MVA _r	Turnkey Project with SVC
2004	National Grid Company, U.K.	Chickerill	MSCDN	400 kV	225 MVA _r	Turnkey Project
2004	National Grid Company, U.K.	JAS	MSCDN	400 kV	225 MVA _r	Turnkey Project
2004	RED Eléctrica de España, Spain	Jijona	MSCDN	220 kV	100 MVA _r	Turnkey Project
2004	RED Eléctrica de España, Spain	Hoya Morena	MSCDN	220 kV	100 MVA _r	Turnkey Project
2003	National Grid Company, U.K.	Monkfryson	MSCDN	275 kV	150 MVA _r	Turnkey Project
2003	TNB, Malaysia	Kuala Lumpur	MSC	275 kV	3x60 MVA _r	Turnkey Project
2003	National Grid Company, U.K.	Norwich	MSCDN	132 kV	3x45 MVA _r	Turnkey Project
2003	National Grid Company, U.K.	Bishopswood	MSCDN	132 kV	45 MVA _r	Turnkey Project
2003	National Grid Company, U.K.	Fleet	MSCDN	132 kV	45 MVA _r	Turnkey Project
2003	SEC, Saudi Arabia	SEC	MSCDN	132 kV	2x20 MVA _r	Turnkey Project

Award	Customer	Station	Type	Voltage	Rating	Remarks
2002	National Grid Company, U.K.	Kirkby	MSCDN	275 kV	150 MVA _r	Turnkey Project
2000	National Grid Company, U.K.	FG1E	MSCDN	132 kV	6x45 MVA _r	Turnkey Project
2000	National Grid Company, U.K.	Whitegate	MSCDN	400 kV	225 MVA _r	Turnkey Project
1997	National Grid Company, U.K.	West Midlands	MSCDN	275 kV	150 MVA _r	Turnkey Project
1997	National Grid Company, U.K.	West Midlands	MSCDN	275 kV	3x225 MVA _r	Turnkey Project