

# INTERCONNECTION REGULATIONS FOR NON-NET-METERED DISTRIBUTED GENERATION

## Interstate Renewable Energy Council – Updated July 2004

State (utility) <sup>1</sup>	Effective or in progress (IP) <sup>2</sup>	Application cost <sup>3</sup>	Sep. rules for small DG & renewables <sup>4</sup>	Breakpoint for small system (simplified) rules	Technologies	Sys. size limit	Standard agreement	Additional insurance	Screening process for interconnection studies	Network interconnection addressed	Agency / Authority
Arizona (SRP)	2002		N	50 kW	All DG	NA	Y	Y	Y	N	Utility
Arizona (APS)	2002		N	50 kW	All DG	NA	Y	Y	Y	N	Utility
Arizona (TEP)	2002		N	50 kW	All DG	NA	Y	Y	Y	N	Utility
California	2000	\$800 (plus \$600 for supp. review)	Y	Depends on screens, but generally 11kVA	All DG	None	Y	N	Y	N	CPUC
Colorado (Co-ops)	2002	None	Y	Varies by utility	Renewables	NA	N	N	N	N	Legislature
Colorado (Xcel)	1996	None	Y	100kW	All DG	NA	Y	Y	N	N	CO PUC
Connecticut	2004	Y	Y	10kW	All DG	25 MW	Y	Y	Y	Y	CT DPUC
Delaware (Conectiv; DEC)	2000 (update IP)	N	Y	25 kW	All DG	1 MW	Y (Conectiv)	Y (DEC)	N	N	DPSC
Hawaii	2003		Y	10 kW <sup>5</sup>	All DG	NA	Y	N	N	N	HI PUC
Idaho (ID Power)	2002		Y	100 kW	All DG	1 MVA	N	N	N	N	ID PUC
Illinois (ComEd)	1999		Y	25 kW (40 kW if net-metered)	All DG	NA	N	N	N	Not allowed (applies to downtown Chicago)	Utility
Indiana	IP	ND	Y	10 kW	All DG	ND	ND	ND	ND	N	IURC
Iowa	IP	ND	ND	ND	All DG	ND	ND	ND	ND	ND	IA DNR
Kansas	IP	ND	Y	ND	All DG	5 MW	Y	ND	ND	N	KCC
Massachusetts	2004	\$3 per kW; \$2,500 max	Y	10 kW	All DG	None	Y	Y	Y	Y	MA DTE
Michigan	2003	\$0.50 per kW; \$500 max	Y	30 kW, 150 kW, 750 kW, 2 MW	All DG	None	Y	N	N	N	MI PSC
Minnesota	IP	ND	Y	40 kW	All DG	ND	Y	ND	ND	ND	MN PUC
Missouri	2003		Y	100 kW	All DG	10 MW	Y	Y	N	N	MO PSC

<sup>1</sup> Interconnection rules that apply only to specific utilities or were developed by particular utilities are listed in parentheses.

<sup>2</sup> For states listed as in progress (IP), information is based either on draft rules or likely consensus positions among stakeholders. Dashes indicate undecided issues.

<sup>3</sup> ND = Not determined. This applies to states or utilities where there are ongoing discussions and particular aspects of the rules are still under consideration.

<sup>4</sup> Many states and utilities have a separate set of interconnection rules for very small (e.g. < 25kW) renewable and DG systems. Frequently, such rules are tied to a state's net metering rules.

<sup>5</sup> Limit applies to renewable energy systems only.

State (utility)	Effective or in progress (IP) <sup>6</sup>	Application Cost <sup>7</sup>	Sep. rules for small DG & renewables <sup>8</sup>	Breakpoint for small system (simplified) rules	Technologies	System size limit	Standard agreement	Additional insurance	Screening process for interconnection studies	Network interconnection addressed	Agency / Authority
New Jersey	IP	ND	Y	Depends on screens, but generally 25 kW	All DG	20MW	Y	N	Y	Y	NJBPU
New York	2000 (modifications in progress)	Depends on system size	Y	10kW	All DG	300kW (2 MW limit considered)	Y	Y	Y	Y	NYPSC
North Carolina	IP	ND	Y	20 kW residential; 100 kW commercial	All DG	20MW	Y	N	N	N	NCUC
Ohio	2001	Varies	Y	25 kW	All DG	300 kW	Y	N	N	N	OH PUC
Texas	2000	Varies	Y	10 kW	All DG	10 MW	Y	N	Y	N	TX PUC
Virginia	IP	ND	Y	10 kW residential; 40 kW commercial	All DG	10 MW	Y	N	N	N	VA SCC
Wisconsin	2004	Varies	Y	20 kW	All DG	15 MW	Y	N	N	N	WI PSC
<i>IREC Model</i>	<i>NA</i>		<i>Y</i>	<i>25 kW</i>	<i>All DG</i>	<i>20 MW</i>	<i>Y</i>	<i>N</i>	<i>Y</i>	<i>Y</i>	<i>NA</i>

<sup>6</sup> For states as listed in progress (IP), information is based either on draft rules or likely consensus positions among stakeholders. Dashes indicate undecided issues.

<sup>7</sup> ND = Not determined. This applies to states or utilities where there are ongoing discussions and particular aspects of the rules are still under consideration.

<sup>8</sup> Many states and utilities have a separate set of interconnection rules for very small (e.g. < 25kW) renewable and DG systems. Frequently, such rules are tied to a state's net metering rules.