

Appendix E- Contract Summary

Consumers Energy : Contracts							
Seller	Quantity	Cost*	Term	Renewable Energy Type	Request for Proposal	Commission Approval	Commercial Operation Date
Trade Wind Energy	150 MW	\$46/MWh	Company Owned "Gratiot Farms"	Wind	7/1/2017		12/1/2020
General Electric							
White Construction, Inc.	75.9 MW	\$46/MWh	Company Owned "Cross Winds III"	Wind	12/1/2016	3/10/2017	12/31/2019
General Electric Company	44 MW	\$45/MWh	Company Owned "Cross Winds II"	Wind	10/2/2012	12/20/2016	12/31/2017
Suniva, Inc.	Solar Modules up to 10 MW				7/31/2015		
SMA Solar Technology America, LLC	String Inverters	\$160.00/MWh	Company Owned "Solar Gardens"	Solar	8/7/2015	3/29/2016	Starting with 4/18/2016
J. Ranck Electric, Inc.	Electrical Installation				8/24/2015		
Mounting Systems Inc.	Panel Racking				8/7/2015		
Experimental Advanced Renewable Program Phases 26-35	2,161.5 kW				\$0.199-\$0.243		
Geronimo Huron Wind, LLC (Apple Blossom)	100 MW	Less than \$45	Up to 15 years	Wind	Unsolicited	11/19/2015	2017
Experimental Advanced Renewable Program Anaerobic Digester	2.6 MW	\$86/MWh or \$76.39/MWh-106.39/MWh	20 years	Anaerobic	Unsolicited	4/23/2015	Varies
Experimental Advanced Renewable Program Phases 16-21	1425.1 kW	\$0.199-\$0.243	Up to 15 Years	Solar	Unsolicited	4/23/2015	Varies
Experimental Advanced Renewable Program Phases 10-15	1193.7 kW	Non-Residential \$0.199-0.209 Residential \$0.243-0.249	Up to 15 Years	Solar	Unsolicited	5/2/2014	Varies
Barton Malow Company	Construction				4/25/2013	9/10/2013	
General Electric Company	62 1.7-100 1.7 MW	\$59.00/MWh	Company Owned "Cross Winds"	Wind	10/2/2012	6/28/2013	12/31/2014
ABB Transformers	2- 34.5KV to 345KV transformers				2/27/2013	9/10/2013	
Blissfield Wind (Beebe Wind)	Unchanged				Unchanged	20 Years	
Heritage Garden Wind Farm I	20 MW	Unchanged	20 Years	Wind	Amendment	1/26/2012	12/31/2012
Heritage Stoney Corners Wind Farm II	Unchanged	Unchanged	20 Years	Wind	Amendment	1/26/2012	1/1/2012
Heritage Stoney Corners Wind Farm I (Phase 3)	8.35 MW	\$106.20 MWh	20 Years	Wind	Result of Amendments	1/26/2012	1/1/2012
Experimental Advanced Renewable Program	987.7 KW	Commercial \$0.375/KWh Residential \$0.525/KWh	12 Years	Solar	Unsolicited	5/10/2011	Varies
Vestas-American Wind Technology	56 V100 1.8 MW Turbines				1/15/2010		
White Construction, Inc. U-15805 edocket files # 251-256	Installation and construction	\$110.00/MWh	Company Owned "Lake Winds"	Wind	7/23/2010	12/2/2010	12/31/2012
GE Prolec Transformers, Inc.	2-125 KV transformers				7/27/2009		
Heritage Garden Wind Farm I	28.6 MW				\$106.20 MWh		
Heritage Stoney Corners Wind Farm II	12.3 MW	\$98.50 MWh	20 Years	Wind	Unsolicited	11/19/2010	1/1/2012
Experimental Advanced	Commercial 836.6 KW	Commercial \$0.45/KWh	12 Years	Solar	Unsolicited	12/31/2010	5/1/2010

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Renewable Program	Residential 200.1 KW	Residential \$0.65/KWh		Solar	Unsolicited	12/21/2010	9/17/2010
Scenic View Dairy**	0.35 MW	\$83.07/MWh	63 Months	Anaerobic	Unsolicited	10/26/2010	7/29/2010
Blissfield Wind (Now Beebe Wind)	81 MW	\$100.88/MWh	20 Years	Wind	5/7/2009	7/27/2010	12/31/2012

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Harvest II Wind	59.4 MW	\$98.38/MWh	20 Years	Wind	5/7/2009	7/27/2010	12/31/2012
Michigan Wind 2	90 MW	\$94.00/MWh	20 Years	Wind	5/7/2009	7/27/2010	6/30/2012
WM Renewable Energy - Pine Tree Acres	12.8 MW	\$98.75/MWh	20 Years	Landfill Gas	5/7/2009	7/27/2010	6/30/2012
WM Renewable Energy - Northern Oaks Landfill	1.6 MW	\$122.39/MWh	20 Years	Landfill Gas	1/29/2009	10/13/2009	11/11/2010
NANR – Lennon	1.6 MW	\$137.27/MWh	20 Years	Landfill Gas	1/29/2009	10/13/2009	12/31/2010
Elk Rapids Hydro Electric** 1	0.7 MW	\$121.31/MWh	10 Years	Hydro	1/29/2009	10/13/2009	7/11/2009
Zeeland**	1.6 MW	\$122.20/MWh	7 Years	Landfill Gas	1/29/2009	10/13/2009	7/11/2009
Freemont Community Digester	3.1 MW	\$139.35/MWh	20 Years	Anaerobic	1/29/2009	10/13/2009	11/11/2012
Scenic View Dairy** 1, 2	0.82 MW	\$138.17/MWh	7 Years	Anaerobic	1/29/2009	10/13/2009	7/11/2009
Totals: 733 MW							

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DTE Electric Company : Contracts							
Seller	Quantity	Cost*	Term	Renewable Energy Type	Request for Proposal	Commission Approval	Commercial Operation Date
Polaris Wind Park	168 MW	\$47.18***	Company Owned "Polaris "	Wind	6/19/2017	4/12/2018	2/28/2020
Pine River Wind Energy, LLC	161.3 MW	\$59.67***	Company Owned "Pine River"	Wind	5/20/2016	12/20/2016	12/31/2018
Innovatus (DTE Solar)	Up to 50 MW	\$113.52/MWh***	Company Owned	Solar	6/24/2015	12/11/2015	10/31/2016
General Electric Company	1.7MW-100 model turbines up to 50 MW	\$47/MWh - \$53/MWh	Company Owned "Pinnebog Wind"	Wind	2/17/2014	12/11/2014	12/31/2015
Aristeo Construction Company	Installation and construction				6/20/2014		
Rudolf Libbe, Inc	750 kW	\$3,741/kW	Company Owned	Solar	9/28/2012	7/8/2014	Apr-15
Inovateus Solar, LLC. (SolarCurrents)	504 kW						
Big Turtle Wind Farm, LLC	20 MW	\$53/MWh	20 Years	Wind	Unsolicited	9/24/2013	Expected 2014
Pheasant Run Wind, LLC	74.8 MW	Up to \$49.25/MWh	20 Years	Wind	Unsolicited	5/17/2013	12/31/2014
Pheasant Run Wind II, LLC	74.8 MW	Up to \$49.25/MWh	Company Owned "Brookfield"	Wind	Unsolicited	5/17/2013	12/31/2014
SolarCurrents Phase II	0.5 MW Non-Residential 1.5 MW Residential	\$0.13/W \$0.02/kWh \$0.20/W \$0.03/kWh	Through 8/31/2029	Solar	Unsolicited	11/16/2012	Varies
Tuscola Wind II, LLC	100 MW	\$49.25/MWh***	20 Years	Wind	5/3/2012	10/31/2012	12/31/2013
General Electric Company	1.6MW-100 model turbines up to 110 MW	\$52.50/MWh	Company Owned "Echo Wind"	Wind	10/12/2011	9/11/2012	12/31/2013
Barton Malow Company	Installation and construction				4/17/2012		
Michigan Waste Energy, Inc.	Up to 65,000 RECs/Year	\$7.00/REC	13 Years	Incinerator	Unsolicited	12/6/2011	1991
Nova Consultants, Inc.	Solar EPC	Up to \$48 Million	Company Owned	Solar	2/28/2011	11/10/2011	12/31/2015
McNaughton-McKay Electric Company	Supply up to 12 MW of Modules	Up to \$24 Million			3/24/2011		
Inovateus Solar, LLC (SolarCurrents)	Supply up to 12MW						
General Electric Company	Up to 69 1.6MW-100 Turbines	\$61-\$64/MWh	Company Owned "Thumb Wind" McKinley, Minden, Sigel	Wind	3/9/2011	9/13/2011	12/31/2012
Barton Malow Company	Installation and construction				5/6/2011		
Tuscola Bay Wind, LLC	120 MW	Up to \$60.90/MWh	20 Years	Wind	11/18/2010	8/25/2011	10/31/2012
L'Anse Warden Electric Company	110,374 RECs	\$11.98 (Average of 4 REC/ACEC Contracts)	Amendment Acquiring Vintage RECs	Biomass	8/18/2009	8/25/2011	7/1/2010
Gratiot County Wind	12.8 MW additional	Unchanged from original contract	Company Owned	Wind	Amendment	5/10/2011	12/31/2012
Nova Consultants (SolarCurrents)	Unchanged from original contract	Unchanged from original contract	Company Owned	Solar	Extension	12/21/2010	12/31/2011
Blue Water Renewables - Smiths Creek Landfill	3.2 MW	\$99.00/MWh	20 Years	Landfill	Unsolicited	1/20/2011	12/31/2011
Gratiot County Wind	110.4 MW 89.6 MW Company Owned	\$91.43/MWh Up to \$94.43/MWh	20 Years Company Owned	Wind	8/18/2009	9/14/2010	5/1/2012 3/31/2012

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WM Renewable Energy - Eagle Valley Landfill	3.2 MW	Combined average price of \$98.94/MWh	20 years	Landfill	8/18/2009	8/10/2010	6/1/2011
L'Anse Warden Electric Company	17 MW		20 years	Biomass	8/18/2009	8/10/2010	7/1/2010
Boyce Hydro**	Firm 210,000 RECs w/additional 112,000 RECs dependent on generation	\$7.75/ REC	7 Years	Hydro	12/23/2009	4/27/2010	3/16/2010
Nova Consultants (SolarCurrents)	Up to 3 MW	Up to \$18 Million	Company Owned	Solar	11/23/2009	3/2/2010	12/31/2010
Heritage Sustainable Energy Stony Corners Wind Farm	12.2 MW	Unchanged from original contract	20 Years	Wind	Unsolicited	12/1/2009	1/1/2011
UPPCO**	Firm 500,000 RECs	Combined average price of \$12.46/REC	7 Years	Hydro	12/23/2009	12/1/2009	10/1/2009
Sterling Planet**	Firm 2,500,000 RECs		10 Years	MISC	12/23/2009	12/1/2009	10/1/2009
Heritage Sustainable Energy Stony Corners Wind Farm	14 MW	\$116.00/MWh	20 Years	Wind	Unsolicited	4/30/2009	12/21/2009
Totals: 1152 MW							
* Per MWh prices represent levelized costs.							
** Pre-existing projects prior to 2008 PA 295 - The commercial operation date would refer to the effective date of the contract.							
***Staff calculated levelized cost							

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Alpena Power Company : Contracts							
Seller	Quantity	Cost	Term	Renewable Energy Type	Request for Proposal	Commission Approval	Commercial Operation Date
Consumers Energy	"Bulk of RECs needed to meet the RPS"	Consumers Energy Company's Average Cost of RECs	20 Years	MISC	Unsolicited	9/15/2009	8/4/2009
AEP/Indiana Michigan : Contracts							
Seller	Quantity	Cost	Term	Renewable Energy Type	Request for Proposal	Commission Approval	Commercial Operation Date
Fowler Ridge Wind Farm II	50 MW (7.5MW for MI)	Redacted	20 Years	Wind	Unsolicited	9/15/2009	2/15/2010
Wildcat I Wind Farm, LLC	100 MW (60MW for MI)	Redacted	20 years	Wind	Competitive Solicitation	8/25/2011	12/31/2012
Wisconsin Electric Power Company (Upper Michigan Energy Resources Corporation) : Contracts							
Seller	Quantity	Cost	Term	Renewable Energy Type	Request for Proposal	Commission Approval	Commercial Operation Date
Cadillac Renewable Energy, LLC	REC-Only Redacted	Redacted	Redacted	Biomass	Competitive Solicitation	1/23/2014	Redacted