

4 CSR 240-22.040 Appendix E - Scoring Table

			Utility Cost				Environmental Cost			Risk Reduction			
			Levelized Cost of Energy	Levelized Cost of Energy Score	Specificity of Location Score	Utility Cost Total Score w/ Allowances	Currently Meets Regulated Emission Limits Score	Potential for future addition of more stringent control technologies and level of control Score	Environmental Cost Total Score	Technology Status Score	Constructability	Safety Training Requirements Score	Risk Reduction Total Score
Screened Renewable Energy Technologies													
Base load	Biomass Combustion	Biomass Combustion - Standalone	12.3	43	50	15.3	85	75	16.2	100	50	50	12.0
		Biomass Combustion - CHP	13.1	38	50	13.8	85	75	16.2	100	50	50	12.0
		Biomass Combustion - Cofiring - Incremental, note 1	2.9	100	50	33.3	85	75	16.2	100	50	50	12.0
	Landfill Gas	Landfill Gas - Reciprocating Engine	10.0	56	100	21.0	85	25	12.2	100	100	100	15.0
		Landfill Gas - Combustion Turbine	8.7	62	100	23.1	85	25	12.2	100	100	100	15.0
	Biomass IGCC	Biomass IGCC	16.4	20	50	8.1	85	75	16.2	25	25	0	3.0
	Waste-to-Energy	Waste-to-Energy - Mass Burn	16.7	19	100	9.3	85	25	12.2	100	50	50	12.0
		Waste-to-Energy RDF	19.1	0	100	3.5	85	25	12.2	100	50	50	12.0
		Waste-to-Energy Plasma Arc	17.0	17	100	9.0	85	25	12.2	25	50	0	3.8
	Intermediate / Peaking	Hydroelectric											
		Hydroelectric - Run of River	8.8	100	100	35.0	100	100	20.0	100	100	50	13.5
As Available	Solar	Hydroelectric - Dam	14.5	0	100	3.5	100	100	20.0	100	100	50	13.5
		Solar Photovoltaic - Commercial	65.5	0	100	3.5	100	100	20.0	100	100	100	15.0
		Parabolic Trough w/o Storage	55.4	22	100	10.3	100	100	20.0	100	100	50	13.5
		Parabolic Trough w/ 3 hr Storage	51.5	28	100	12.2	100	100	20.0	25	100	50	6.8
	Wind	Parabolic Dish	52.3	26	100	11.8	100	100	20.0	25	100	100	8.3
		Wind Farm (Tranche 1)	11.1	100	100	35.0	100	100	20.0	100	100	100	15.0
		Wind Farm (Tranche 2)	11.5	97	100	34.1	100	100	20.0	100	100	100	15.0
		Wind Farm (Tranche 3)	11.9	95	100	33.4	100	100	20.0	100	100	100	15.0
	Energy Storage	Battery Energy	62.4	0	100	3.5	100	100	20.0	100	100	100	15.0
		CAES	23.2	70	100	25.6	100	25	14.0	100	50	50	12.0

Notes:
1. Based on installation of new coal fired capacity. Costs are show as incremental.

			Planning Flexibilty							Operability				Total Score	
							Scalability / Modularity / Resource Constrained Score	Transmission Complexity	Construction Schedule and Budget Risk	Planning Flexibility Total Score					
			Permitting Score	Schedule	Schedule Score	Fuel Flexibility Score					Availability Score	Technical Operability Training Score	Load Following / VAR Support	Operability Total Score	Total Score w/ Allowances
Screened Renewable Technologies															
Baseload	Biomass Combustion	Biomass Combustion - Standalone	50	24	35	25	75	100	75	9.0	50	50	25	6.2	58.7
		Biomass Combustion - CHP	50	24	35	25	75	100	75	9.0	50	50	25	6.2	57.2
		Biomass Combustion - Cofiring - Incremental	100	12	100	25	75	100	100	11.4	50	50	25	6.2	79.1
	Landfill Gas	Landfill Gas - Reciprocating Engine	100	15	80	0	75	100	75	9.4	100	100	100	15.0	72.7
		Landfill Gas - Combustion Turbine	100	15	80	0	75	100	75	9.4	100	100	100	15.0	74.8
	Biomass IGCC	Biomass IGCC	50	30	0	25	25	100	0	4.7	50	25	25	5.6	37.7
	Waste-to-Energy	Waste-to-Energy - Mass Burn	25	30	0	25	25	100	25	5.1	50	50	25	6.2	44.8
		Waste-to-Energy RDF	25	30	0	25	25	100	25	5.1	50	50	25	6.2	39.0
		Waste-to-Energy Plasma Arc	25	30	0	25	25	100	0	4.3	50	25	25	5.6	34.9
Intermediate / Peaking	Hydroelectric	Hydroelectric - Run of River	25	0	100	100	25	100	25	9.4	100	100	100	15.0	92.9
		Hydroelectric - Dam	25	0	100	100	25	100	25	9.4	100	100	100	15.0	61.4
As Available	Solar	Solar Photovoltaic - Commercial	100	12	100	100	75	100	75	13.5	100	100	0	9.8	61.8
		Parabolic Trough w/o Storage	50	20	0	100	75	100	25	9.8	100	100	0	9.8	63.3
		Parabolic Trough w/ 3 hr Storage	50	20	0	100	75	100	25	9.8	100	100	0	9.8	58.5
		Parabolic Dish	100	14	72	100	75	100	50	12.3	100	100	0	9.8	62.2
	Wind	Wind Farm (Tranche 1)	50	12	100	100	75	100	75	12.8	100	100	0	9.8	92.5
		Wind Farm (Tranche 2)	51	12	100	100	75	100	75	12.8	100	100	0	9.8	91.6
		Wind Farm (Tranche 3)	52	12	100	100	75	100	75	12.8	100	100	0	9.8	90.9
Energy Storage		Battery Energy	100	6	100	0	100	100	100	11.3	100	100	100	15.0	64.8
		CAES	50	21	0	0	25	100	75	6.0	100	50	100	13.9	71.4

Notes:
1. Based on installation of new coal fired capacity. Costs are show as incremental.