

Office Building / Applied Block Chain

Assumptions: *No information provided regarding usage for the office building - this Estimate based on closest load on DVEC system Commercial / Retail facility (9,100 square feet)*

Rate: *Small 3-phase Rate*

Billing Period	Revenue from Applied Block Chain - Office Building				DVEC - Estimated Cost of Power			Estimated Profit	
	Energy (kWh)	per kWh	Basic Service	Total	Energy (kWh)	Demand (kW)			
	Usage	\$ 0.0975	Charge	Revenue	\$ 0.03120	KW	\$ 21.38		
Month 1	5,680	\$ 553.80	\$ 89.00	\$ 642.80	\$ 177.22	10.00	\$ 213.80	\$ 391.02	\$ 251.78
Month 2	5,600	\$ 546.00	\$ 89.00	\$ 635.00	\$ 174.72	8.00	\$ 171.04	\$ 345.76	\$ 289.24
Month 3	6,240	\$ 608.40	\$ 89.00	\$ 697.40	\$ 194.69	13.12	\$ 280.51	\$ 475.19	\$ 222.21
Month 4	7,280	\$ 709.80	\$ 89.00	\$ 798.80	\$ 227.14	14.08	\$ 301.03	\$ 528.17	\$ 270.63
Month 5	7,440	\$ 725.40	\$ 89.00	\$ 814.40	\$ 232.13	16.32	\$ 348.92	\$ 581.05	\$ 233.35
Month 6	6,320	\$ 616.20	\$ 89.00	\$ 705.20	\$ 197.18	16.64	\$ 355.76	\$ 552.95	\$ 152.25
Month 7	5,120	\$ 499.20	\$ 89.00	\$ 588.20	\$ 159.74	5.76	\$ 123.15	\$ 282.89	\$ 305.31
Month 8	4,640	\$ 452.40	\$ 89.00	\$ 541.40	\$ 144.77	4.80	\$ 102.62	\$ 247.39	\$ 294.01
Month 9	5,040	\$ 491.40	\$ 89.00	\$ 580.40	\$ 157.25	6.40	\$ 136.83	\$ 294.08	\$ 286.32
Month 10	5,280	\$ 514.80	\$ 89.00	\$ 603.80	\$ 164.74	5.76	\$ 123.15	\$ 287.88	\$ 315.92
Month 11	6,640	\$ 647.40	\$ 89.00	\$ 736.40	\$ 207.17	13.12	\$ 280.51	\$ 487.67	\$ 248.73
Month 12	5,520	\$ 538.20	\$ 89.00	\$ 627.20	\$ 172.22	8.32	\$ 177.88	\$ 350.11	\$ 277.09
				\$ 7,971.00			\$ 4,824.16	\$ 3,146.84	

Data Center / Applied Block Chain

Assumption *180,000 Demand / 95% load factor*

Rate: *Large Data Center MISO Substation Delivery Rate*

Billing Period	Revenue from Applied Block Chain - Data Center							DVEC - Cost of Power				Estimated Profit	
	Demand (kW)	per kW	Energy (kWh)	per kWh	Basic Service	Distribution Tax	Total	Energy (kWh)	Demand (kW)	Tax	Total		
		\$ 21.38	Usage	\$ 0.031824	Charge	\$ 0.0008	Revenue	\$ 0.03120	\$ 21.38	0.0008			
Month 1	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 2	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 3	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 4	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 5	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 6	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 7	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 8	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 9	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 10	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 11	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
Month 12	180,000	3,848,400.00	124,830,000	\$3,972,589.92	\$ 200.00	\$ 99,864	\$ 7,921,054	\$ 3,894,696	\$ 3,848,400	99,864	\$ 7,842,960	\$ 78,094	
							\$ 95,052,647				\$ 94,115,520	\$ 937,127	

Cost to Build Service to Office: \$ 141,968.84
 Aid to Construction: \$ (88,270.20)
 DVEC Investment to Serve: \$ 53,698.64

71 PU-22-370 Filed 12/19/2022 Pages: 1
 Exhibit DV5 - Estimated rates for office and data center
 Dakota Valley Electric Cooperative, Inc.

Cost to Build Service to Data Center - 100% Aid to Construction - No investment to Serve

73 PU-22-366 Filed 12/19/2022 Pages: 1
 Exhibit DV5 - Estimated rates for office and data center
 Dakota Valley Electric Cooperative, Inc.

Based on estimated profit from data center alone - DVEC would recoup its investment of the line extension within the first year of operation.

