

**Figure S1.** Water tariff scheme practiced in each city by the local water utility.

**Table S1.** Financial analysis results for RWH systems with indirect distribution in Belém.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	3000	2.96	-	-	-13,689.13
100	2	50	3000	4.83	-	-	-14,024.87
100	2	70	4000	6.65	-	-	-14,826.23
100	4	30	4000	5.78	-	0.26	-3850.32
100	4	50	4000	8.98	24.42	0.60	2040.18
100	4	70	5000	11.50	24.25	0.61	2213.47
100	6	30	4000	8.25	18.67	0.76	5462.63
100	6	50	5000	12.01	12.58	1.05	13,031.63
100	6	70	5000	14.51	10.50	1.21	17,585.70
200	2	30	2000	2.96	-	-	-14,999.84
200	2	50	3000	4.90	-	-	-15,348.90
200	2	70	4000	6.82	-	-	-16,168.89
200	4	30	3000	5.84	-	0.26	-4048.37
200	4	50	4000	9.51	25.42	0.58	1759.03
200	4	70	5000	12.95	28.17	0.53	641.59
200	6	30	4000	8.64	19.00	0.75	5755.92
200	6	50	5000	13.73	12.08	1.08	15,289.29
200	6	70	6000	18.21	10.08	1.25	22,066.41
300	2	30	2000	2.96	-	-	-15,990.04
300	2	50	3000	4.92	-	-	-16,341.94
300	2	70	3000	6.80	-	-	-16,679.10
300	4	30	3000	5.87	-	0.21	-5043.89
300	4	50	4000	9.63	28.00	0.53	746.81
300	4	70	5000	13.27	-	0.48	-404.38
300	6	30	4000	8.72	19.58	0.73	5619.14
300	6	50	5000	14.10	13.00	1.02	14,233.39
300	6	70	6000	19.13	10.25	1.23	22,684.64

**Table S2.** Financial analysis results for RWH systems with direct distribution in Belém.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	3000	2.96	-	-	-13,332.88
100	2	50	3000	4.83	-	-	-13,591.96
100	2	70	4000	6.65	-	-	-14,319.05
100	4	30	4000	5.78	-	0.29	-3378.66
100	4	50	4000	8.98	23.08	0.63	2643.03
100	4	70	5000	11.50	22.75	0.64	2919.43
100	6	30	4000	8.25	17.83	0.79	6035.36
100	6	50	5000	12.01	12.08	1.08	13,758.43
100	6	70	5000	14.51	10.00	1.25	18,415.02
200	2	30	2000	2.96	-	-	-14,643.80
200	2	50	3000	4.90	-	-	-14,913.16
200	2	70	4000	6.82	-	-	-15,654.62
200	4	30	3000	5.84	-	0.29	-3574.36
200	4	50	4000	9.51	24.08	0.61	2383.44
200	4	70	5000	12.95	26.25	0.56	1406.98
200	6	30	4000	8.64	18.17	0.78	6344.58
200	6	50	5000	13.73	11.58	1.12	16,086.63
200	6	70	6000	18.21	9.67	1.28	23,047.02
300	2	30	2000	2.96	-	-	-15,633.92
300	2	50	3000	4.92	-	-	-15,905.48
300	2	70	3000	6.80	-	-	-16,165.66
300	4	30	3000	5.87	-	0.24	-4568.59
300	4	50	4000	9.63	26.50	0.56	1376.33
300	4	70	5000	13.27	28.92	0.51	373.84
300	6	30	4000	8.72	18.75	0.76	6211.32
300	6	50	5000	14.10	12.50	1.05	15,045.82
300	6	70	6000	19.13	9.92	1.26	23,702.83

**Table S3.** Financial analysis results for RWH systems with indirect distribution in Belo Horizonte.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	12000	2.96	-	-	-16,312.80
100	2	50	6000	4.83	-	-0.43	-11,579.55
100	2	70	6000	6.65	-	-0.29	-10,800.14
100	4	30	6000	5.78	-	0.42	-1637.88
100	4	50	6000	8.98	24.33	0.60	2529.55
100	4	70	6000	11.50	21.25	0.68	4513.88
100	6	30	6000	8.25	20.08	0.72	5361.94
100	6	50	6000	12.01	13.25	1.00	13,803.69
100	6	70	5000	14.51	12.00	1.09	15,320.94
200	2	30	10000	2.96	-	-	-17,648.75
200	2	50	8000	4.90	-	-0.53	-14,841.08
200	2	70	6000	6.82	-	-0.34	-12,027.82
200	4	30	7000	5.84	-	0.41	-2030.82
200	4	50	7000	9.51	25.92	0.57	1950.28

200	4	70	7000	12.95	21.83	0.67	4702.25
200	6	30	7000	8.64	19.50	0.73	6801.90
200	6	50	7000	13.73	12.25	1.07	18,466.59
200	6	70	7000	18.21	10.42	1.22	23,968.16
300	2	30	9000	2.96	-	-	-18,646.25
300	2	50	8000	4.92	-	-0.54	-15,607.42
300	2	70	7000	6.80	-	-0.42	-14,076.15
300	4	30	8000	5.87	-	0.37	-3442.75
300	4	50	7000	9.63	26.75	0.55	1611.48
300	4	70	8000	13.27	23.17	0.63	4122.04
300	6	30	7000	8.72	20.50	0.70	6140.69
300	6	50	7000	14.10	12.42	1.06	18,891.94
300	6	70	7000	19.13	10.00	1.25	26,745.05

**Table S4.** Financial analysis results for RWH systems with direct distribution in Belo Horizonte.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	12,000	2.96	-	-1.14	-15,838.06
100	2	50	6000	4.83	-	-0.29	-10,557.59
100	2	70	6000	6.65	-	-0.24	-10,267.58
100	4	30	6000	5.78	-	0.44	-11,222.14
100	4	50	6000	8.98	23.25	0.63	3104.81
100	4	70	6000	11.50	20.25	0.71	5127.91
100	6	30	6000	8.25	19.25	0.74	5923.82
100	6	50	6000	12.01	12.83	1.03	14,425.06
100	6	70	5000	14.51	11.50	1.12	15,965.77
200	2	30	10,000	2.96	-	-	-17,174.63
200	2	50	8000	4.90	-	-0.48	-14,323.71
200	2	70	6000	6.82	-	-0.29	-11,477.88
200	4	30	7000	5.84	-	0.43	-1496.48
200	4	50	7000	9.51	24.83	0.59	2559.35
200	4	70	7000	12.95	20.92	0.69	5371.88
200	6	30	7000	8.64	18.75	0.76	7393.58
200	6	50	7000	13.73	11.83	1.10	19,149.89
200	6	70	7000	18.21	10.08	1.25	24,719.84
300	2	30	9000	2.96	-	-	-18,173.13
300	2	50	8000	4.92	-	-0.49	-15,084.64
300	2	70	7000	6.80	-	-0.37	-13,512.82
300	4	30	8000	5.87	-	0.39	-2896.62
300	4	50	7000	9.63	25.58	0.58	2233.45
300	4	70	8000	13.27	22.25	0.66	4820.06
300	6	30	7000	8.72	19.75	0.73	6743.60
300	6	50	7000	14.10	12.00	1.09	19,596.04
300	6	70	7000	19.13	9.67	1.28	27,528.99

**Table S5.** Financial analysis results for RWH systems with indirect distribution in Brasília.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	14000	2.91	-	-	-18,643.28
100	2	50	5000	3.31	-	-	-12,896.65
100	2	70	5000	4.31	-	-0.60	-11,337.82
100	4	30	5000	3.82	-	-0.01	-7702.38
100	4	50	5000	5.54	-	0.27	-4048.34
100	4	70	6000	7.05	21.75	0.67	4095.33
100	6	30	5000	5.16	-	0.16	-5721.95
100	6	50	6000	7.33	-	0.42	-1623.21
100	6	70	5000	8.15	26.58	0.55	1250.07
200	2	30	12000	2.89	-	-	-20,533.61
200	2	50	5000	3.52	-	-	-14,105.38
200	2	70	5000	4.61	-	-0.69	-12,560.88
200	4	30	5000	4.07	-	-0.07	-9062.88
200	4	50	5000	6.10	-	0.40	-2030.14
200	4	70	6000	8.00	23.92	0.61	2974.24
200	6	30	5000	5.63	-	0.18	-5923.19
200	6	50	6000	8.40	-	0.45	-1048.56
200	6	70	6000	10.51	11.50	1.12	18,930.53
300	2	30	11000	2.88	-	-	-21,525.90
300	2	50	6000	3.74	-	-	-16,242.24
300	2	70	5000	4.77	-	-0.81	-13,576.48
300	4	30	5000	4.22	-	-0.12	-10,077.22
300	4	50	6000	6.48	26.33	0.56	1699.89
300	4	70	6000	8.42	25.50	0.58	2169.86
300	6	30	5000	5.83	-	0.18	-6257.81
300	6	50	6000	8.86	21.08	0.69	5255.57
300	6	70	7000	11.53	12.42	1.06	18,644.60

**Table S6.** Financial analysis results for RWH systems with direct distribution in Brasília.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	14000	2.91	-	-	-18,228.76
100	2	50	5000	3.31	-	-	-12,469.37
100	2	70	5000	4.31	-	-0.53	-10,879.20
100	4	30	5000	3.82	-	0.02	-7258.99
100	4	50	5000	5.54	-	0.30	-3550.60
100	4	70	6000	7.05	20.83	0.69	4640.54
100	6	30	5000	5.16	-	0.19	-5236.38
100	6	50	6000	7.33	-	0.44	-1069.06
100	6	70	5000	8.15	25.25	0.58	1830.12
200	2	30	12000	2.89	-	-	-20,119.78
200	2	50	5000	3.52	-	-	-13,671.65
200	2	70	5000	4.61	-	-0.61	-12,092.63
200	4	30	5000	4.07	-	-0.04	-8611.74
200	4	50	5000	6.10	-	0.42	-1514.77

200	4	70	6000	8.00	22.92	0.64	3549.66
200	6	30	5000	5.63	-	0.20	-5422.61
200	6	50	6000	8.40	-	0.47	-460.64
200	6	70	6000	10.51	11.17	1.15	19,585.25
300	2	30	11000	2.88	-	-	-21,112.35
300	2	50	6000	3.74	-	-	-15,801.42
300	2	70	5000	4.77	-	-0.70	-13,103.33
300	4	30	5000	4.22	-	-0.09	-9621.45
300	4	50	6000	6.48	25.33	0.58	2227.28
300	4	70	6000	8.42	24.42	0.60	2758.35
300	6	30	5000	5.83	-	0.21	-5751.13
300	6	50	6000	8.86	20.25	0.71	5858.04
300	6	70	7000	11.53	12.08	1.08	19,331.51

**Table S7.** Financial analysis results for RWH systems with indirect distribution in Campo Grande.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	6000	2.84	-	-0.09	-8687.21
100	2	50	6000	4.29	-	0.30	-3660.15
100	2	70	5000	5.36	29.67	0.50	84.34
100	4	30	5000	4.80	26.50	0.56	1239.31
100	4	50	6000	6.90	16.92	0.83	7938.57
100	4	70	6000	8.04	14.17	0.96	11,573.71
100	6	30	6000	6.46	14.42	0.94	11,140.52
100	6	50	6000	8.19	10.75	1.18	18,428.42
100	6	70	5000	8.55	9.08	1.35	22,145.08
200	2	30	5000	2.87	-	-0.10	-8827.99
200	2	50	6000	4.54	-	0.24	-5010.01
200	2	70	6000	5.98	-	0.43	-1343.29
200	4	30	6000	5.28	29.50	0.50	159.75
200	4	50	7000	8.06	17.08	0.82	9076.99
200	4	70	7000	10.27	12.42	1.06	16,959.41
200	6	30	7000	7.43	14.75	0.93	12,443.96
200	6	50	7000	10.73	9.33	1.33	26,825.96
200	6	70	8000	13.26	8.17	1.47	34,454.32
300	2	30	6000	2.93	-	-0.10	-10,073.84
300	2	50	7000	4.70	-	0.17	-6970.07
300	2	70	6000	6.14	-	0.46	-755.33
300	4	30	7000	5.50	-	0.50	-3.65
300	4	50	7000	8.37	16.67	0.84	10,084.51
300	4	70	8000	11.08	13.92	0.97	15,558.34
300	6	30	7000	7.69	14.42	0.94	13,713.21
300	6	50	8000	11.68	10.00	1.25	26,870.95
300	6	70	9000	15.00	8.33	1.44	37,022.86

**Table S8.** Financial analysis results for RWH systems with direct distribution in Campo Grande.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	6000	2.84	-	-0.07	-8376.80
100	2	50	6000	4.29	-	0.32	-3294.79
100	2	70	5000	5.36	28.50	0.52	490.46
100	4	30	5000	4.80	25.50	0.58	1624.17
100	4	50	6000	6.90	16.42	0.85	8403.46
100	4	70	6000	8.04	13.75	0.98	12,081.81
100	6	30	6000	6.46	14.00	0.96	11,588.62
100	6	50	6000	8.19	10.50	1.21	18,942.36
100	6	70	5000	8.55	8.83	1.38	22,672.46
200	2	30	5000	2.87	-	-0.08	-8516.46
200	2	50	6000	4.54	-	0.26	-4634.97
200	2	70	6000	5.98	-	0.45	-913.37
200	4	30	6000	5.28	28.50	0.52	562.83
200	4	50	7000	8.06	16.58	0.84	9585.77
200	4	70	7000	10.27	12.08	1.08	17,552.44
200	6	30	7000	7.43	14.33	0.95	12,928.76
200	6	50	7000	10.73	9.08	1.35	27,436.33
200	6	70	8000	13.26	8.00	1.49	35,160.91
300	2	30	6000	2.93	-	-0.08	-9759.94
300	2	50	7000	4.70	-	0.19	-6589.09
300	2	70	6000	6.14	-	0.48	-319.65
300	4	30	7000	5.50	29.00	0.51	407.86
300	4	50	7000	8.37	16.25	0.86	10,605.26
300	4	70	8000	11.08	13.50	0.99	16,182.08
300	6	30	7000	7.69	14.00	0.96	14,207.95
300	6	50	8000	11.68	9.83	1.27	27,517.24
300	6	70	9000	15.00	8.17	1.46	37,795.62

**Table S9.** Financial analysis results for RWH systems with indirect distribution in Florianópolis.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	3000	2.95	-	-1.38	-11,344.17
100	2	50	5000	4.84	-	-0.49	-11,128.78
100	2	70	6000	6.53	-	-0.24	-10,680.12
100	4	30	5000	5.67	13.33	1.00	12,770.51
100	4	50	7000	8.39	9.75	1.28	25,216.40
100	4	70	7000	9.73	8.67	1.39	29,860.50
100	6	30	7000	7.89	8.75	1.39	29,621.54
100	6	50	7000	9.95	7.08	1.64	39,739.07
100	6	70	6000	10.45	6.08	1.84	44,554.13
200	2	30	3000	2.96	-	-	-12,704.33
200	2	50	4000	4.89	-	-0.55	-11,830.75
200	2	70	5000	6.77	-	-0.23	-10,597.88
200	4	30	5000	5.87	13.83	0.98	13,130.09
200	4	50	7000	9.49	9.42	1.31	28,548.02

200	4	70	8000	12.44	9.58	1.29	29,941.07
200	6	30	6000	8.57	8.08	1.48	33,043.89
200	6	50	8000	13.01	6.42	1.77	52,130.14
200	6	70	9000	16.10	5.58	1.97	65,857.10
300	2	30	3000	2.96	-	-	-13,719.80
300	2	50	4000	4.91	-	-0.52	-12,470.46
300	2	70	5000	6.82	-	-0.28	-11,622.54
300	4	30	5000	5.89	14.58	0.93	12,561.84
300	4	50	6000	9.57	9.25	1.33	28,928.93
300	4	70	8000	13.11	9.92	1.26	29,830.43
300	6	30	6000	8.70	8.58	1.41	32,003.72
300	6	50	8000	13.85	6.25	1.80	56,211.91
300	6	70	9000	17.84	5.25	2.07	74,568.22

**Table S10.** Financial analysis results for RWH systems with direct distribution in Florianópolis.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	3000	2.95	-	-0.99	-10,938.17
100	2	50	5000	4.84	-	-0.42	-10,638.71
100	2	70	6000	6.53	-	-0.19	-10,115.19
100	4	30	5000	5.67	12.92	1.02	13,297.42
100	4	50	7000	8.39	9.50	1.30	25,864.08
100	4	70	7000	9.73	8.50	1.42	30,567.78
100	6	30	7000	7.89	8.50	1.42	30,247.21
100	6	50	7000	9.95	6.92	1.67	40,456.11
100	6	70	6000	10.45	6.42	1.76	43,934.53
200	2	30	3000	2.96	-	-	-12,298.02
200	2	50	4000	4.89	-	-0.47	-11,338.48
200	2	70	5000	6.77	-	-0.18	-10,022.16
200	4	30	5000	5.87	13.42	1.00	13,665.71
200	4	50	7000	9.49	9.17	1.34	29,244.64
200	4	70	8000	12.44	9.33	1.32	30,768.85
200	6	30	6000	8.57	7.92	1.51	33,699.54
200	6	50	8000	13.01	6.25	1.80	52,983.45
200	6	70	9000	16.10	5.50	2.00	66,847.47
300	2	30	3000	2.96	-	-	-13,313.36
300	2	50	4000	4.91	-	-0.45	-11,977.58
300	2	70	5000	6.82	-	-0.23	-11,044.58
300	4	30	5000	5.89	14.17	0.96	13,098.52
300	4	50	6000	9.57	9.00	1.36	29,628.90
300	4	70	8000	13.11	9.67	1.29	30,688.05
300	6	30	6000	8.70	8.42	1.44	32,665.18
300	6	50	8000	13.85	6.08	1.83	57,102.19
300	6	70	9000	17.84	5.17	2.11	75,636.22

**Table S11.** Financial analysis results for RWH systems with indirect distribution in Recife.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	4000	2.89	-	-	-14,160.60
100	2	50	5000	4.46	-	-	-15,166.76
100	2	70	5000	5.68	-	-	-15,348.11
100	4	30	6000	5.20	-	0.42	-1500.01
100	4	50	5000	7.24	17.33	0.81	7035.18
100	4	70	5000	8.94	14.17	0.95	10,762.86
100	6	30	5000	6.76	15.50	0.89	9031.36
100	6	50	5000	9.29	11.42	1.13	15,703.56
100	6	70	5000	10.97	9.25	1.33	21,749.09
200	2	30	4000	2.95	-	-	-15,492.64
200	2	50	5000	4.77	-	-	-16,535.51
200	2	70	6000	6.44	-	-	-17,925.97
200	4	30	5000	5.59	-	0.50	-7.80
200	4	50	6000	8.46	18.08	0.78	7373.75
200	4	70	6000	10.75	16.08	0.86	9760.17
200	6	30	6000	7.84	15.92	0.87	9955.84
200	6	50	6000	11.27	11.08	1.16	19,241.11
200	6	70	6000	14.03	8.67	1.40	27,780.76
300	2	30	3000	2.94	-	-	-15,734.63
300	2	50	5000	4.85	-	-	-17,539.75
300	2	70	6000	6.64	-	-	-18,947.32
300	4	30	5000	5.71	-	0.45	-1019.27
300	4	50	6000	8.95	18.58	0.77	7305.63
300	4	70	7000	11.75	18.83	0.76	7461.84
300	6	30	6000	8.23	17.17	0.82	8905.01
300	6	50	7000	12.37	11.08	1.16	21,642.56
300	6	70	6000	15.30	8.33	1.44	31,313.98

**Table S12.** Financial analysis results for RWH systems with direct distribution in Recife.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	4000	2.89	-	-	-14,033.26
100	2	50	5000	4.46	-	-	-14,986.96
100	2	70	5000	5.68	-	-	-15,127.70
100	4	30	6000	5.20	28.08	0.53	617.89
100	4	50	5000	7.24	17.00	0.82	7307.81
100	4	70	5000	8.94	13.92	0.97	11,092.07
100	6	30	5000	6.76	15.25	0.90	9287.71
100	6	50	5000	9.29	11.25	1.14	16044.48
100	6	70	5000	10.97	9.08	1.35	22,145.96
200	2	30	4000	2.95	-	-	-15,363.08
200	2	50	5000	4.77	-	-	-16,345.28
200	2	70	6000	6.44	-	-	-16,538.43
200	4	30	5000	5.59	29.33	0.51	209.63



200	4	50	6000	8.46	17.83	0.79	7686.98
200	4	70	6000	10.75	15.75	0.88	10,149.78
200	6	30	6000	7.84	15.67	0.88	10,248.24
200	6	50	6000	11.27	10.92	1.17	19,647.88
200	6	70	6000	14.03	8.58	1.41	28,279.64
300	2	30	3000	2.94	-	-	-15,605.43
300	2	50	5000	4.85	-	-	-17,346.98
300	2	70	6000	6.64	-	-	-18,695.00
300	4	30	5000	5.71	-	0.46	-797.68
300	4	50	6000	8.95	18.25	0.78	7634.96
300	4	70	7000	11.75	18.50	0.77	7884.79
300	6	30	6000	8.23	16.92	0.83	9210.38
300	6	50	7000	12.37	10.92	1.17	22,085.97
300	6	70	6000	15.30	8.17	1.46	31,855.04

**Table S13.** Financial analysis results for RWH systems with indirect distribution in Salvador.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	4000	2.86	-	-	-13,175.19
100	2	50	6000	4.53	-	-	-14,869.54
100	2	70	6000	5.74	-	-	-15,063.86
100	4	30	6000	5.18	25.33	0.58	1950.89
100	4	50	6000	6.99	16.50	0.84	8703.91
100	4	70	6000	8.07	14.08	0.96	12,050.53
100	6	30	6000	6.63	12.83	1.03	14,308.72
100	6	50	6000	8.26	11.08	1.16	18,308.22
100	6	70	5000	8.74	9.17	1.34	22,648.21
200	2	30	4000	2.92	-	-	-14,325.41
200	2	50	5000	4.74	-	-	-15,061.41
200	2	70	6000	6.39	-	-	-16,496.09
200	4	30	5000	5.54	22.17	0.66	3777.42
200	4	50	7000	8.55	15.50	0.89	11,504.87
200	4	70	7000	10.67	13.58	0.99	14,987.00
200	6	30	7000	7.93	13.17	1.01	15,849.91
200	6	50	8000	11.34	9.92	1.26	26,825.61
200	6	70	7000	13.16	8.17	1.46	33,147.74
300	2	30	4000	2.94	-	-	-15,324.31
300	2	50	4000	4.74	-	-	-15,291.80
300	2	70	5000	6.50	-	-	-16,339.39
300	4	30	5000	5.67	24.17	0.61	2761.66
300	4	50	7000	9.00	15.83	0.87	11,613.66
300	4	70	8000	11.77	15.33	0.89	13,168.97
300	6	30	6000	8.14	13.00	1.02	16,005.09
300	6	50	8000	12.35	9.58	1.29	29,479.92
300	6	70	8000	15.28	7.75	1.53	40,130.44

**Table S14.** Financial analysis results for RWH systems with direct distribution in Salvador.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	4000	2.86	-	-	-13,019.36
100	2	50	6000	4.53	-	-	-14,653.24
100	2	70	6000	5.74	-	-	-14,803.69
100	4	30	6000	5.18	24.83	0.59	2190.85
100	4	50	6000	6.99	16.25	0.85	9009.36
100	4	70	6000	8.07	13.92	0.97	12,395.47
100	6	30	6000	6.63	12.67	1.04	14,601.35
100	6	50	6000	8.26	10.92	1.17	18,659.98
100	6	70	5000	8.74	9.08	1.35	23,017.21
200	2	30	4000	2.92	-	-	-14,167.53
200	2	50	5000	4.74	-	-	-14,837.43
200	2	70	6000	6.39	-	-	-16,212.11
200	4	30	5000	5.54	21.83	0.67	4030.59
200	4	50	7000	8.55	15.25	0.90	11,867.05
200	4	70	7000	10.67	13.33	1.00	15,426.09
200	6	30	7000	7.93	13.00	1.02	16,189.50
200	6	50	8000	11.34	9.75	1.28	27,288.86
200	6	70	7000	13.16	8.08	1.48	33,677.13
300	2	30	4000	2.94	-	-	-15,165.65
300	2	50	4000	4.74	-	-	-15,067.68
300	2	70	5000	6.50	-	-	-16,051.61
300	4	30	5000	5.67	23.67	0.62	3019.42
300	4	50	7000	9.00	15.58	0.88	11,992.14
300	4	70	8000	11.77	15.08	0.91	13,647.91
300	6	30	6000	8.14	12.83	1.03	16,352.54
300	6	50	8000	12.35	9.50	1.31	29,979.90
300	6	70	8000	15.28	7.58	1.54	40,736.74

**Table S15.** Financial analysis results for RWH systems with indirect distribution in São Paulo.

Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	6000	2.94	-	-	-17,734.28
100	2	50	7000	4.54	-	-	-18,679.93
100	2	70	6000	5.64	-	-	-18,118.36
100	4	30	6000	5.07	-	0.25	-4937.01
100	4	50	6000	7.09	29.92	0.50	16.85
100	4	70	6000	8.35	22.25	0.65	3978.19
100	6	30	6000	6.67	9.50	1.30	24,761.31
100	6	50	6000	8.58	7.08	1.63	37,231.75
100	6	70	6000	9.43	6.33	1.78	43,312.72
200	2	30	5000	2.93	-	-	-17,950.30
200	2	50	7000	4.77	-	-	-20,519.57
200	2	70	7000	6.28	-	-	-20,733.53
200	4	30	7000	5.56	-	0.24	-6010.60
200	4	50	7000	8.28	26.92	0.55	1463.33

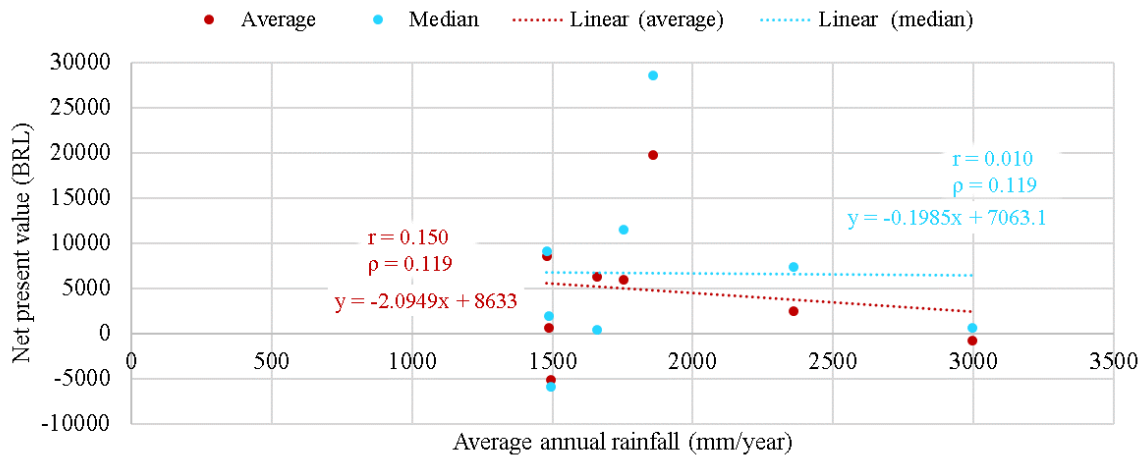
200	4	70	8000	10.77	25.67	0.58	2324.78
200	6	30	7000	7.63	9.50	1.30	28,638.17
200	6	50	8000	11.25	7.42	1.58	42,844.30
200	6	70	8000	13.62	6.67	1.71	49,268.10
300	2	30	5000	2.95	-	-	-18,969.11
300	2	50	6000	4.74	-	-	-20,368.09
300	2	70	8000	6.53	-	-	-22,966.07
300	4	30	7000	5.64	-	0.20	-7038.40
300	4	50	7000	8.57	29.08	0.51	406.02
300	4	70	8000	11.36	27.67	0.54	1225.33
300	6	30	7000	7.88	9.58	1.30	29,771.76
300	6	50	8000	11.96	7.50	1.57	44,347.51
300	6	70	9000	15.38	6.92	1.67	52,044.47

**Table S16.** Financial analysis results for RWH systems with direct distribution in São Paulo.

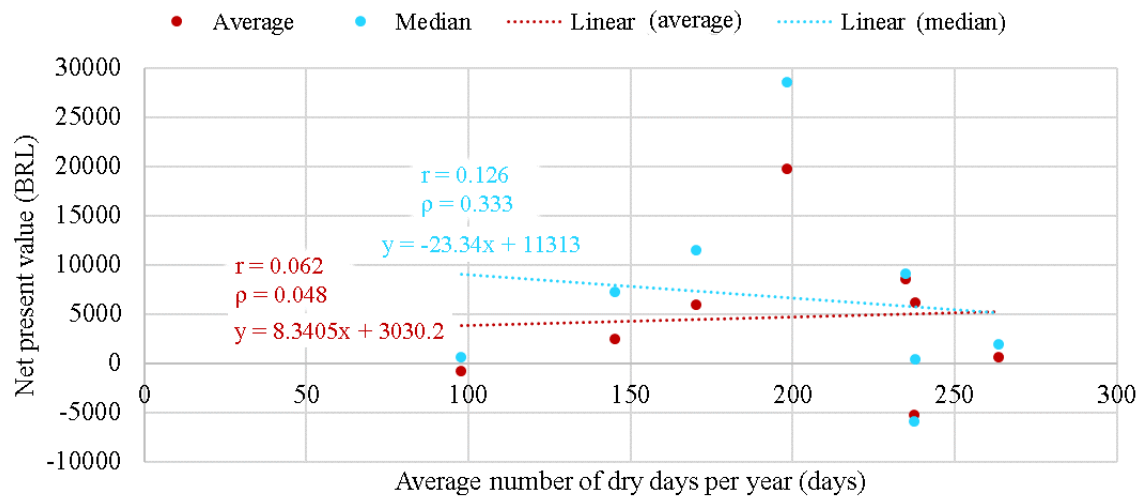
Catchment area (m <sup>2</sup> )	Number of inhabitants (inhab)	Rainwater demand (%)	Rainwater tank size (L)	Rainwater consumption (m <sup>3</sup> /month)	Discounted payback (years)	Internal rate of return (%/month)	Net present value (BRL)
100	2	30	6000	2.94	-	-	-17,193.40
100	2	50	7000	4.54	-	-	-18,583.84
100	2	70	6000	5.64	-	-	-17,577.48
100	4	30	6000	5.07	-	0.23	-5261.80
100	4	50	6000	7.09	-	0.47	-654.20
100	4	70	6000	8.35	23.50	0.62	3033.56
100	6	30	6000	6.67	10.00	1.26	22,454.09
100	6	50	6000	8.58	7.42	1.57	34,081.16
100	6	70	6000	9.43	6.58	1.72	39,751.58
200	2	30	5000	2.93	-	-	-17,409.42
200	2	50	7000	4.77	-	-	-19,978.70
200	2	70	7000	6.28	-	-	-20,192.65
200	4	30	7000	5.56	-	0.20	-6435.83
200	4	50	7000	8.28	28.75	0.52	518.70
200	4	70	8000	10.77	27.50	0.54	1221.88
200	6	30	7000	7.63	9.92	1.26	25,898.12
200	6	50	8000	11.25	7.75	1.52	39,052.19
200	6	70	8000	13.62	7.00	1.65	45,029.29
300	2	30	5000	2.95	-	-	-18,428.23
300	2	50	6000	4.74	-	-	-19,827.21
300	2	70	8000	6.53	-	-	-22,425.20
300	4	30	7000	5.64	-	0.17	-7463.63
300	4	50	7000	8.57	-	0.48	-538.60
300	4	70	8000	11.36	29.67	0.50	122.43
300	6	30	7000	7.88	10.08	1.25	26,887.12
300	6	50	8000	11.96	7.83	1.51	40,382.27
300	6	70	9000	15.38	7.25	1.60	47,459.39

**Table S17.** Correlation between rainfall indicators and the average and median net present value obtained in the financial analysis.

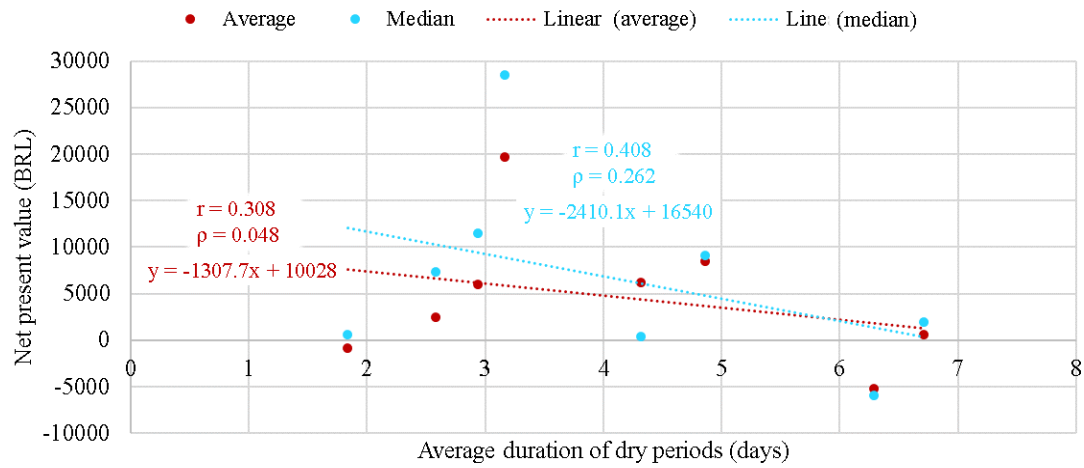
Rainfall indicator	p-value	r (Pearson)		ρ (Spearman)	
		Average	Median	Average	Median
Average annual rainfall	0.15	0.150	0.010	-0.119	0.119
Average number of dry days per year	0.07	0.062	0.126	0.048	-0.333
Seasonality index	0.06	0.859	0.846	-0.571	-0.548
Dry periods	Average duration	0.06	0.308	0.408	0.048
	Standard deviation	0.06	0.487	0.531	-0.095
	Coefficient of variation	0.06	0.509	0.556	-0.214
	Maximum duration	0.06	0.433	0.520	-0.095



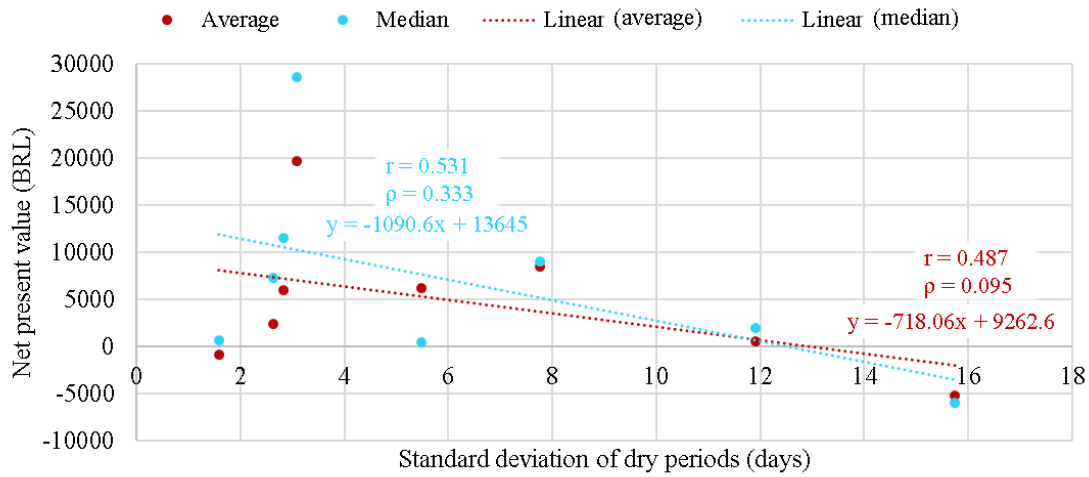
**Figure S2.** Correlation between the average annual rainfall and the average and median net present value of the RWH systems.



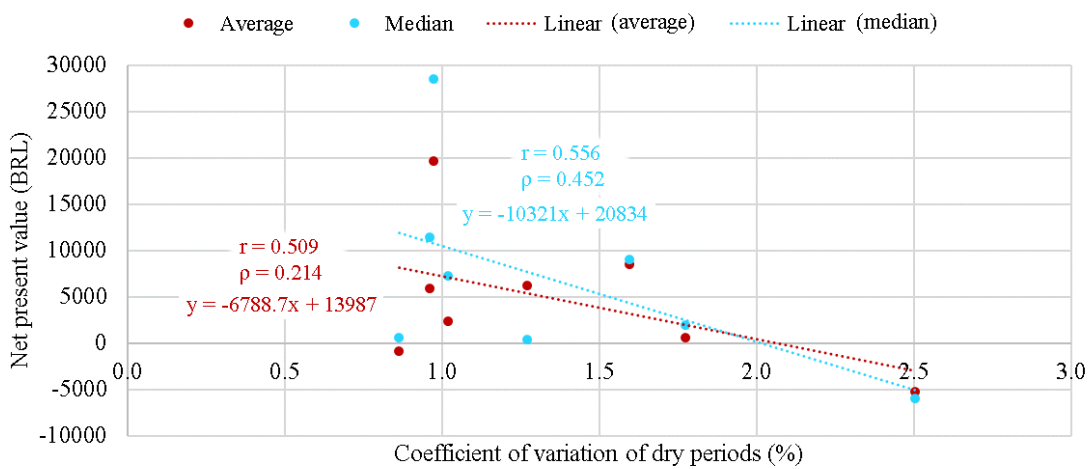
**Figure S3.** Correlation between the average number of dry days per year and the average and median net present value of the RWH systems.



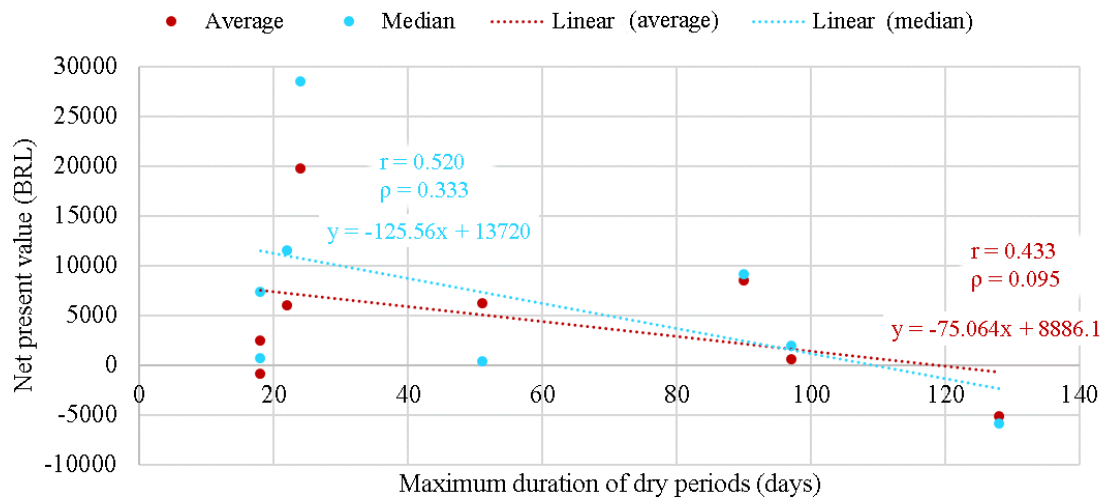
**Figure S4.** Correlation between the average duration of dry periods and the average and median net present value of the RWH systems.



**Figure S5.** Correlation between the standard deviation of dry periods and the average and median net present value of the RWH systems.



**Figure S6.** Correlation between the coefficient of variation of dry periods and the average and median net present value of the RWH systems.



**Figure S7.** Correlation between the maximum duration of dry periods and the average and median net present value of the RWH systems.