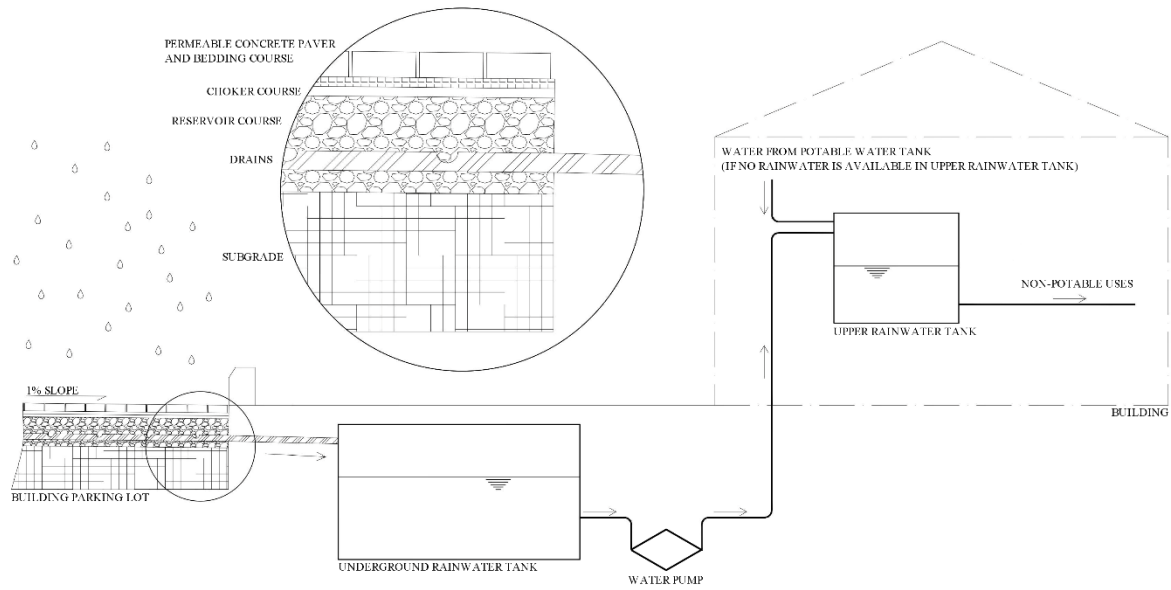# Supplementary Data

Figure S1. Rainwater harvesting schematic with water flows.

Figure S2. Permeable and impermeable areas of the parking lot in the Technology Centre. Source: Background image from Google Earth Pro (2019).

Table S1. Potential for potable water savings and rainwater demand influence in the potential for potable water savings.

Building	Average potential for potable water savings according to the rainwater demand (%)			Slope of the linear regression of potable water savings potential for different rainwater demand (%/%)
	69%	77%	85%	
Department of Architecture and Urbanism	27.65	28.68	29.12	0.7325
University Library	33.37	34.60	35.71	1.1719
Technology Centre	32.24	33.24	35.25	1.5081
Department of Architecture and Engineering Projects	62.18	68.93	75.71	6.7694
Department of Civil Engineering	45.91	49.07	52.02	3.0556
University Administration Building	27.28	28.20	28.48	0.6037

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	223	188	199	128	141	88	97	102	163	145	151	163

Figure S3. Average, minimum and maximum monthly rainfall in the city of Florianópolis over 2003–2017.

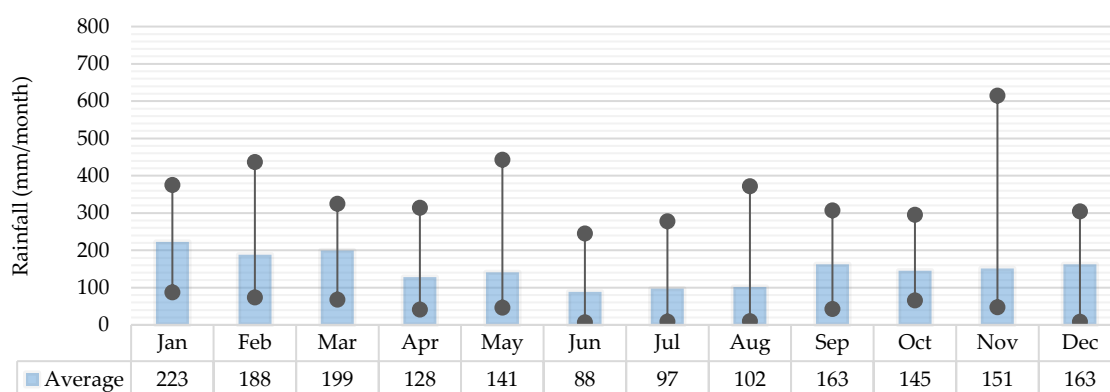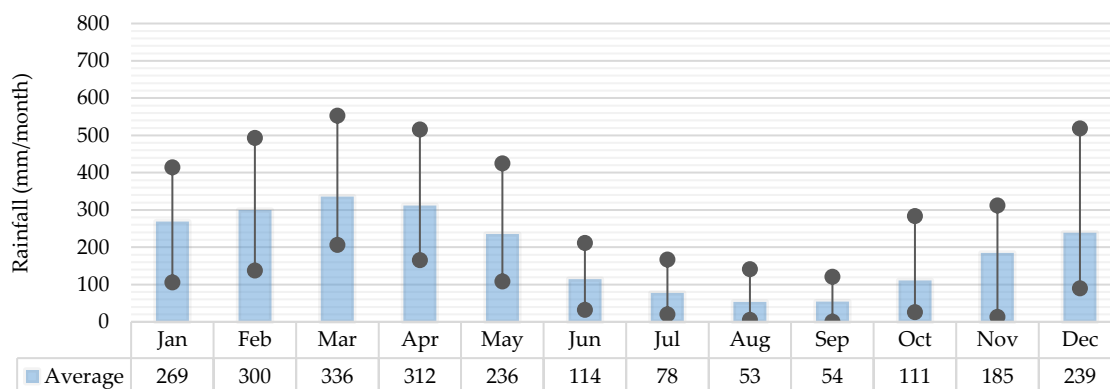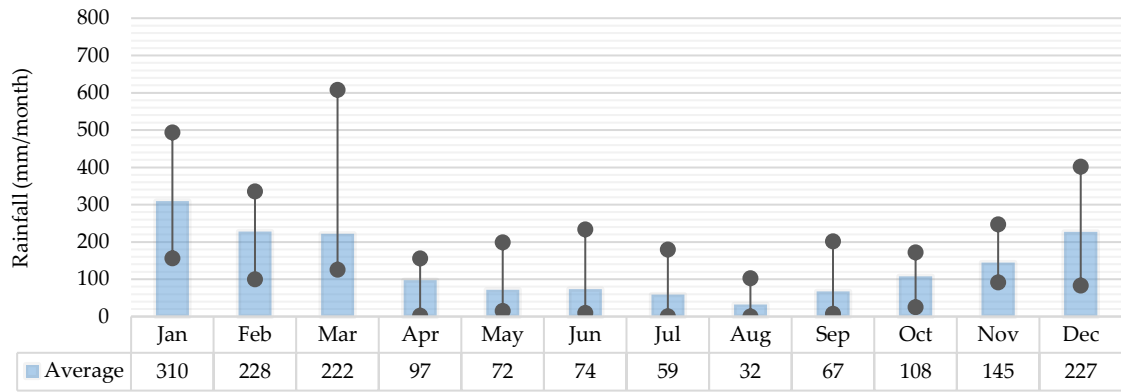|	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	269	300	336	312	236	114	78	53	54	111	185	239

Figure S4. Average, minimum and maximum monthly rainfall in the city of Manaus over 2003–2017.

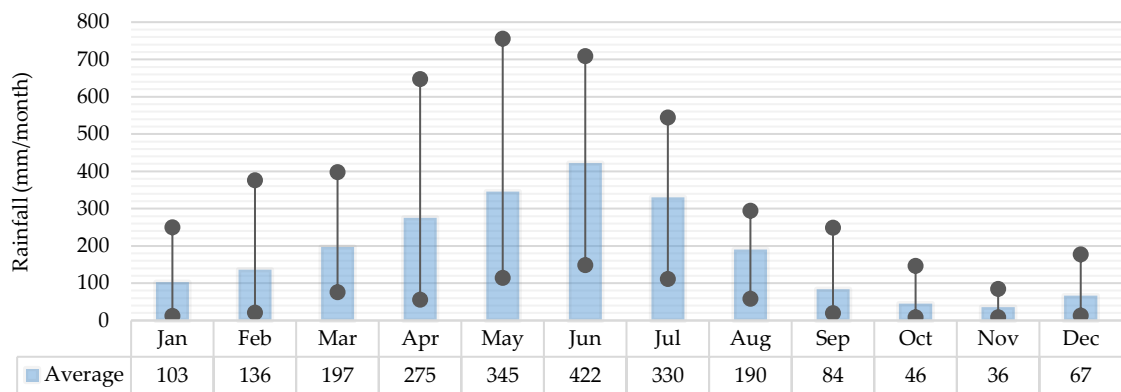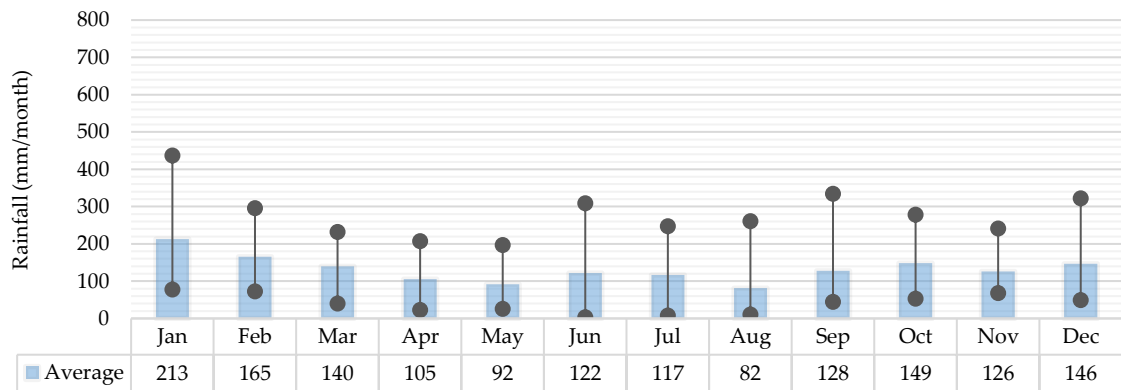**Figure S5.** Average, minimum and maximum monthly rainfall in the city of São Paulo over 2003–2017.
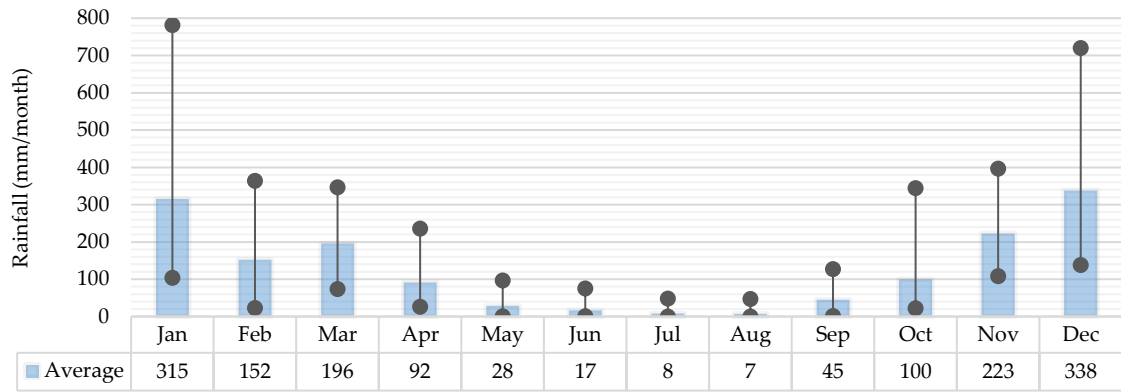
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	310	228	222	97	72	74	59	32	67	108	145	227

Figure S6. Average, minimum and maximum monthly rainfall in the city of Recife over 2003–2017.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	103	136	197	275	345	422	330	190	84	46	36	67

Figure S7. Average, minimum and maximum monthly rainfall in the city of Curitiba over 2003–2017.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	213	165	140	105	92	122	117	82	128	149	126	146

Figure S8. Average, minimum and maximum monthly rainfall in the city of Belo Horizonte over 2003–2017.

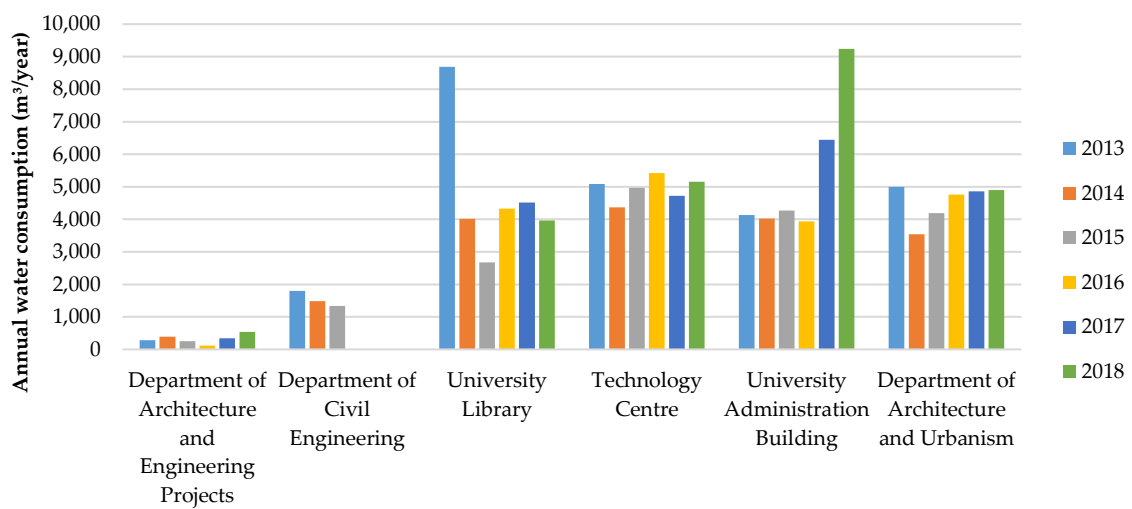| Average	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	315	152	196	92	28	17	8	7	45	100	223	338

Figure S9. Water consumption for the buildings over 2013–2018.

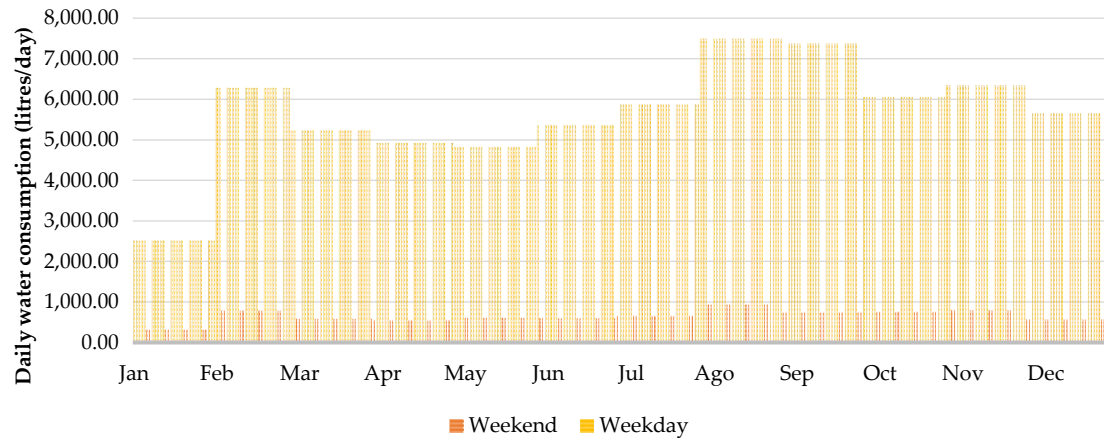**Figure S10.** Daily water consumption in the department of architecture and engineering projects considered in the simulation.

Figure S11. Daily water consumption in the civil engineering building considered in the simulation.

Figure S12. Daily water consumption in the university library considered in the simulation.

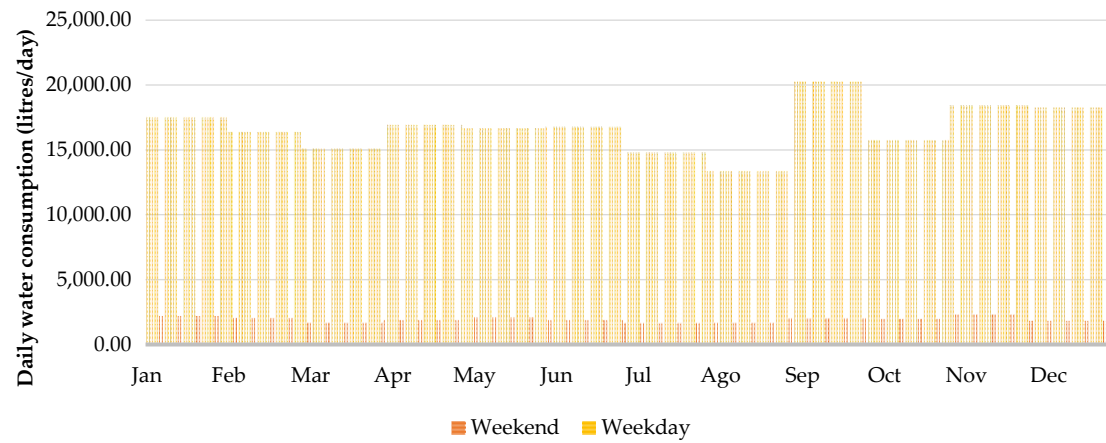**Figure S13.** Daily water consumption in the university administration building considered in the simulation.

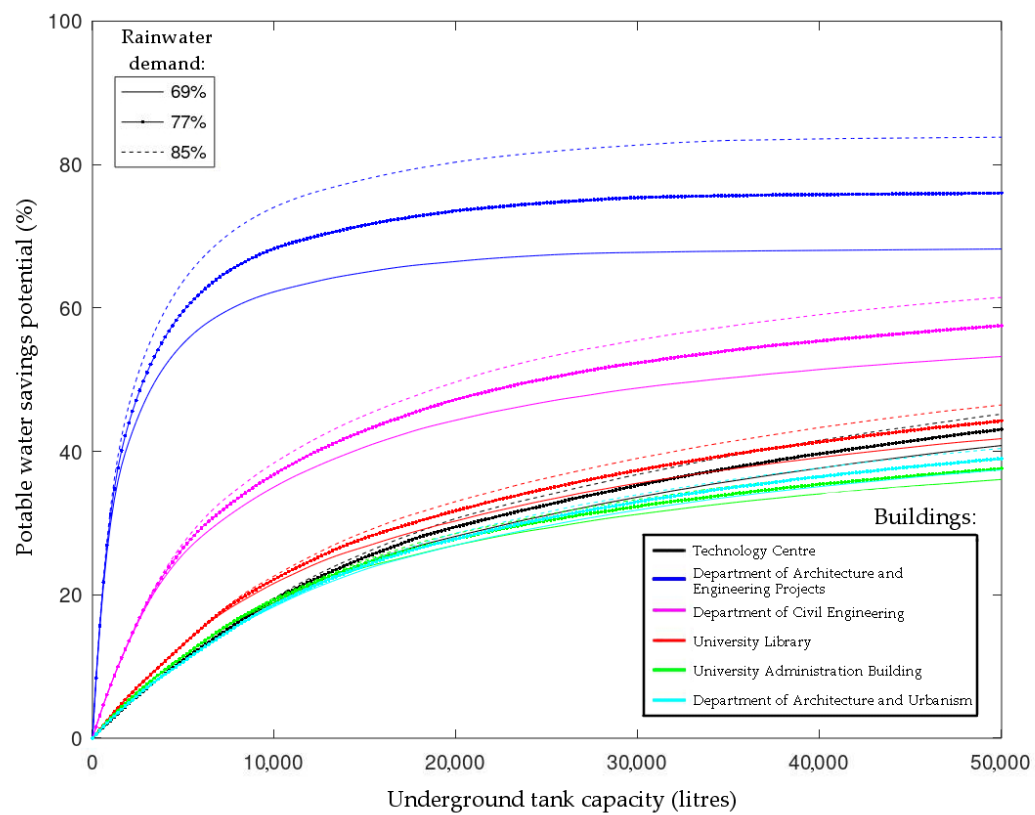**Figure S14.** Daily water consumption in the architecture and urbanism building considered in the simulation.

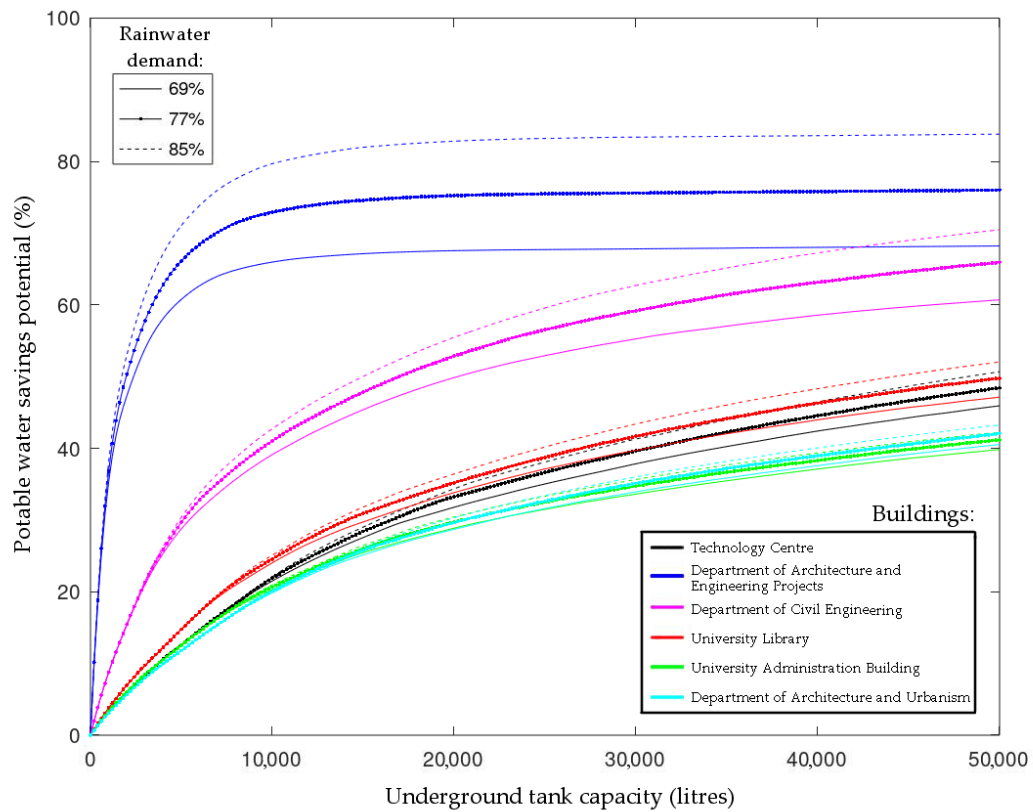**Figure S15.** Potential for potable water savings for the six buildings located in São Paulo.

Figure S16. Potential for potable water savings for the six buildings located in Curitiba.
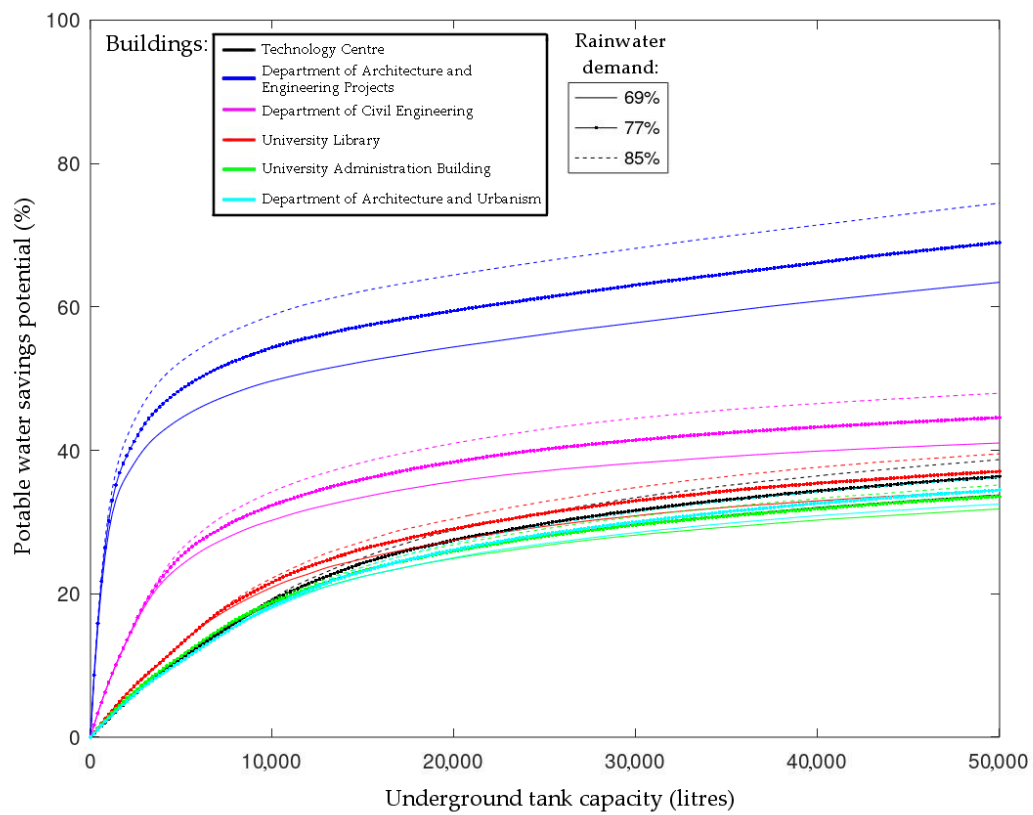

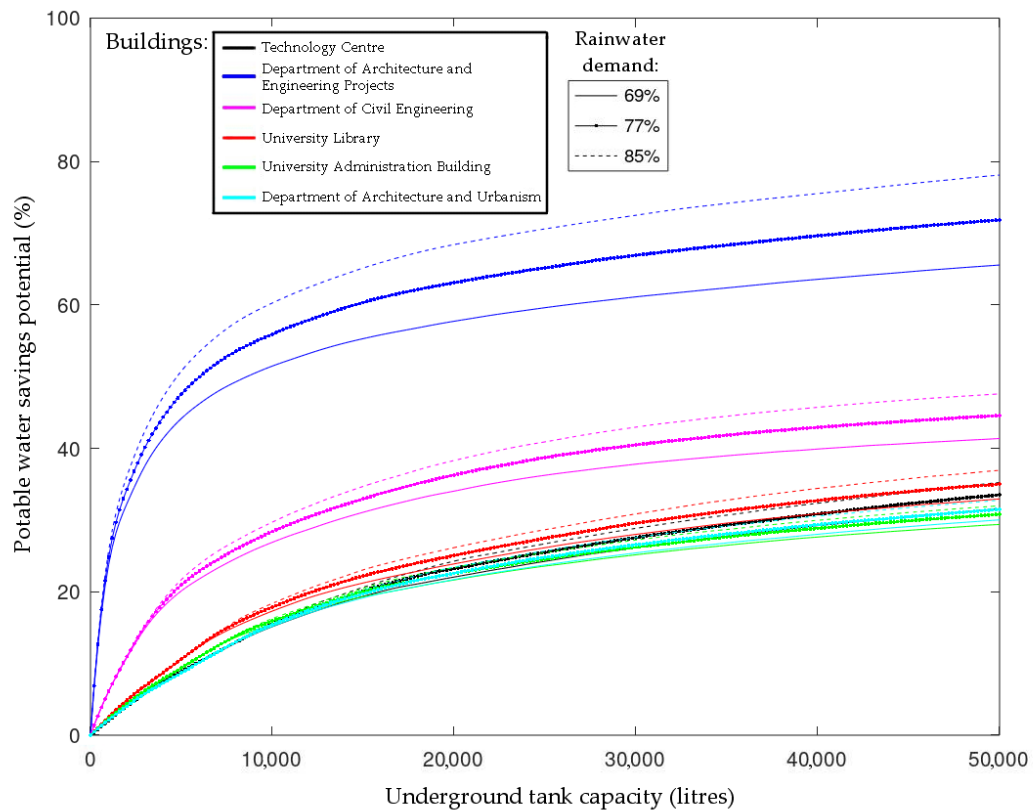**Figure S17.** Potential for potable water savings for the six buildings located in Brasília.

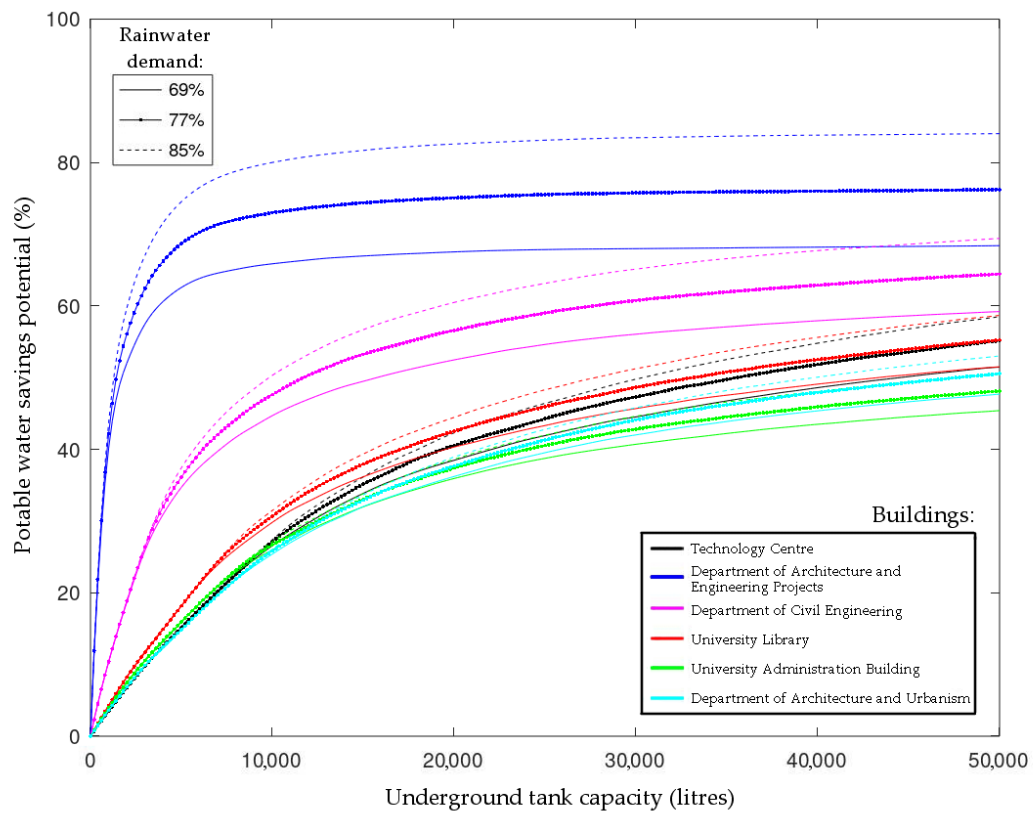**Figure S18.** Potential for potable water savings for the six buildings located in Belo Horizonte.

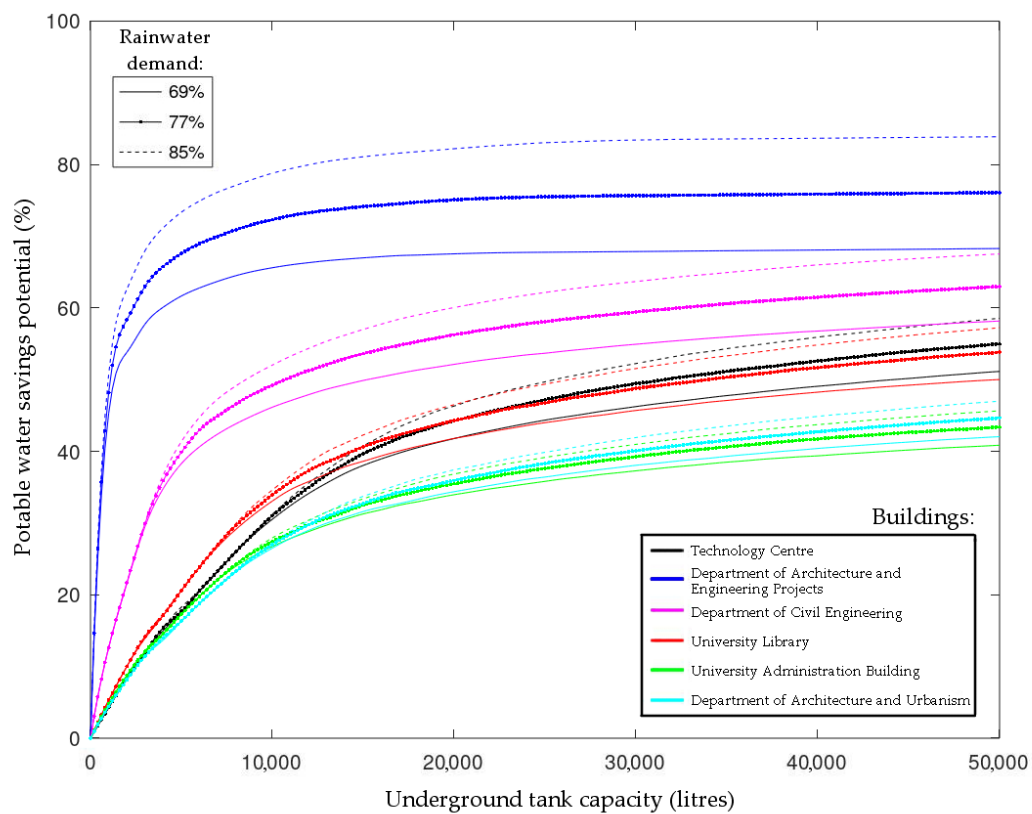**Figure S19.** Potential for potable water savings for the six buildings located in Manaus.

Figure S20. Potential for potable water savings for the six buildings located in Recife.
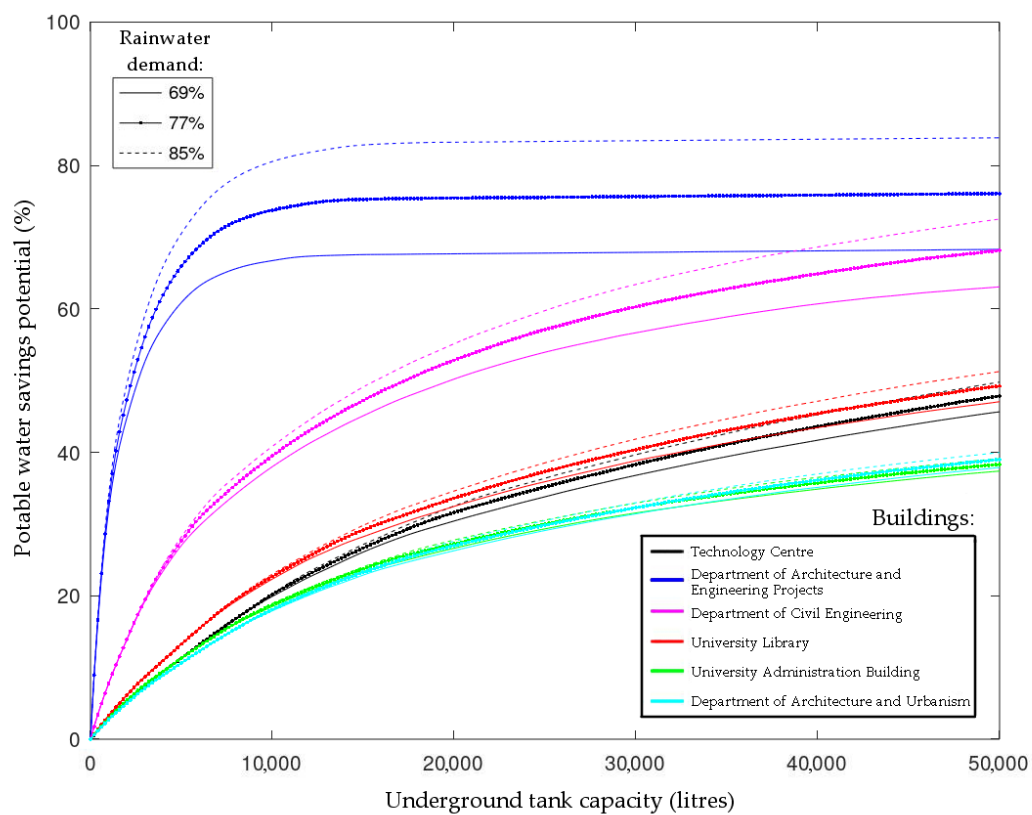

Figure S21. Potential for potable water savings for the six buildings located in Porto Alegre.