



Template for Evidence(s) UI GreenMetric Questionnaire

University	: IFSULDEMINAS
Country	: BRAZIL
Web Address	: https://www.ifsuldeminas.edu.br/index.php

[2] Energy and Climate Change (EC)

[2.5] Renewable energy produce inside campus

2018 nov 3 dec jan	59.011 3 59.321 3 74.396 4 76.726 4 56.893 3 63.468 3 59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 707.449 3	4.326 4.366 3.164 3.502 3.283 2.776 2.723	TCO 4.189 4.514 5.920 6.080 4.452 4.796 4.150 3.475 3.144 3.563	IN C 7.860 8.220 10.280 9.730 7.290 7.920 7.920 7.270 6.430 5.800	MCH 5.640 4.513 5.960 6.280 4.557 5.190 5.250 4.768	n (kWh) MUZ 7.770 7.380 10.180 10.600 7.910 8.410 7.910	PAS 7.990 7.650 9.910 10.170 7.440 7.870 7.810	PCS 7.860 7.500 8.130 9.620 8.000 9.660	POA 6.870 7.830 9.600 9.710 6.720 7.620	RET 7.780 8.480 10.090 10.170 7.360 8.500	
2018 nov 3 dec jan feb	59.011 3 59.321 3 74.396 4 76.726 4 56.893 3 63.468 3 59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 707.449 3	3.052 3.234 4.326 4.366 3.164 3.502 3.283 2.776 2.723 3.124 3.051 3.051	4.189 4.514 5.920 6.080 4.452 4.796 4.150 3.475 3.144 3.563	8.220 10.280 9.730 7.290 7.920 7.270 6.430	5.640 4.513 5.960 6.280 4.557 5.190 5.250	7.770 7.380 10.180 10.600 7.910 8.410	7.990 7.650 9.910 10.170 7.440 7.870	7.860 7.500 8.130 9.620 8.000 9.660	6.870 7.830 9.600 9.710 6.720 7.620	7.780 8.480 10.090 10.170 7.360	
dec jan jan <td>74.396 4 76.726 4 56.893 3 63.468 3 59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 56.983 3 707.449 3</td> <td>4.326 4.366 3.164 3.502 3.283 2.776 2.723 3.124 3.051</td> <td>5.920 6.080 4.452 4.796 4.150 3.475 3.144 3.563</td> <td>10.280 9.730 7.290 7.920 7.270 6.430</td> <td>5.960 6.280 4.557 5.190 5.250</td> <td>10.180 10.600 7.910 8.410</td> <td>9.910 10.170 7.440 7.870</td> <td>8.130 9.620 8.000 9.660</td> <td>9.600 9.710 6.720 7.620</td> <td>10.090 10.170 7.360</td> <td></td>	74.396 4 76.726 4 56.893 3 63.468 3 59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 56.983 3 707.449 3	4.326 4.366 3.164 3.502 3.283 2.776 2.723 3.124 3.051	5.920 6.080 4.452 4.796 4.150 3.475 3.144 3.563	10.280 9.730 7.290 7.920 7.270 6.430	5.960 6.280 4.557 5.190 5.250	10.180 10.600 7.910 8.410	9.910 10.170 7.440 7.870	8.130 9.620 8.000 9.660	9.600 9.710 6.720 7.620	10.090 10.170 7.360	
jan i feb i mar i 2019 may jun i jul i aug i sep i Total 7 Average i	76.726 4 56.893 3 63.468 3 59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 56.983 3 707.449 3	4.366 3.164 3.502 3.283 2.776 2.723 3.124 3.051	6.080 4.452 4.796 4.150 3.475 3.144 3.563	9.730 7.290 7.920 7.270 6.430	6.280 4.557 5.190 5.250	10.600 7.910 8.410	10.170 7.440 7.870	9.620 8.000 9.660	9.710 6.720 7.620	10.170 7.360	
2019 2019 may jun jun sep Total Average	56.893 3 63.468 3 59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 56.983 3 707.449 3	3.164 3.502 3.283 2.776 2.723 3.124 3.051	4.452 4.796 4.150 3.475 3.144 3.563	7.290 7.920 7.270 6.430	4.557 5.190 5.250	7.910 8.410	7.440 7.870	8.000 9.660	6.720 7.620	7.360	
mar apr apr <td>63.468 3 59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 56.983 3 707.449 3</td> <td>3.502 3.283 2.776 2.723 3.124 3.051</td> <td>4.796 4.150 3.475 3.144 3.563</td> <td>7.920 7.270 6.430</td> <td>5.190 5.250</td> <td>8.410</td> <td>7.870</td> <td>9.660</td> <td>7.620</td> <td></td> <td></td>	63.468 3 59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 56.983 3 707.449 3	3.502 3.283 2.776 2.723 3.124 3.051	4.796 4.150 3.475 3.144 3.563	7.920 7.270 6.430	5.190 5.250	8.410	7.870	9.660	7.620		
2019 may jun jun jun sep	59.103 3 49.729 2 47.108 2 52.707 3 52.004 3 56.983 3 707.449 3	3.283 2.776 2.723 3.124 3.051	4.150 3.475 3.144 3.563	7.270 6.430	5.250					8.500	
2019 may jun jun jul sep	49.729 2 47.108 2 52.707 3 52.004 3 56.983 3 707.449 3	2.776 2.723 3.124 3.051	3.475 3.144 3.563	6.430		7.910	7.810				
jun jul aug sep Total Average	47.108 2 52.707 3 52.004 3 56.983 3 707.449 3	2.723 3.124 3.051	3.144 3.563		4.768			8.270	6.820	8.340	
jul sep	52.707 3 52.004 3 56.983 3 707.449 3	3.124 3.051	3.563	5.800		6.320	6.750	6.250	5.880	7.080	
aug sep Total Average	52.004 3 56.983 3 707.449 3	3.051			4.921	6.230	6.370	5.610	5.520	6.790	
sep Total 7 Average	56.983 3 707.449 3			6.420	5.540	7.260	6.830	6.270	5.970	7.730	
Total 7 Average 1	707.449 3	3.214	3.723	6.820	5.060	7.170	7.030	6.370	5.150	7.630	
Average			4.289	7.000	5.470	8.190	7.950	6.600	6.870	7.400	
			52.295 4.358	91.040 7.587	63.149 5.262	95.330 7.944	93.770 7.814	90.140 7.512	84.560 7.047	97.350 8.113	
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Figure 9: Rectory solar power plant.

Figure 10: Solar Seal, certification awarded to IFSULDEMINAS



Figure 11. Small Hydro Power Plant - PCH

Figure 12. PCH Generators.



Description

IFSULDEMINAS has nine (9) solar power plants who generated **707,449 kWh** in the last 12 months. This result represents an approximate savings of US\$ 119,834.59. Each power plant installed costed US\$ 114,405 and is expected to be paid in approximately 8 years. The plants have a useful life of 25 years (Figures 1 to 9).

Campus Muzambinho have a Hydropower / Hydroelectric Power plant who generated **301,840 kWh** in the last 12 months (Figures 11 and 12).

Campus Muzambinho have a Clean Biomass / Biogas plant who generated **57,714 kWh** in the last 12 months (Figures 13 and 14).

The Solar Seal is a certification awarded to IFSULDEMINAS by the Institute for the Development of Alternative Energies in Latin America - Ideal Institute (Figure 10). Available at: https://portal.ifsuldeminas.edu.br/index.php/institucional-geral/76-acontece-nos-campus/2238-sustentavel-instituto-federal-do-sul-de-minas-recebe-selo-solar.

Source: IFSULDEMINAS.