

Template for Evidence(s) UI GreenMetric Questionnaire

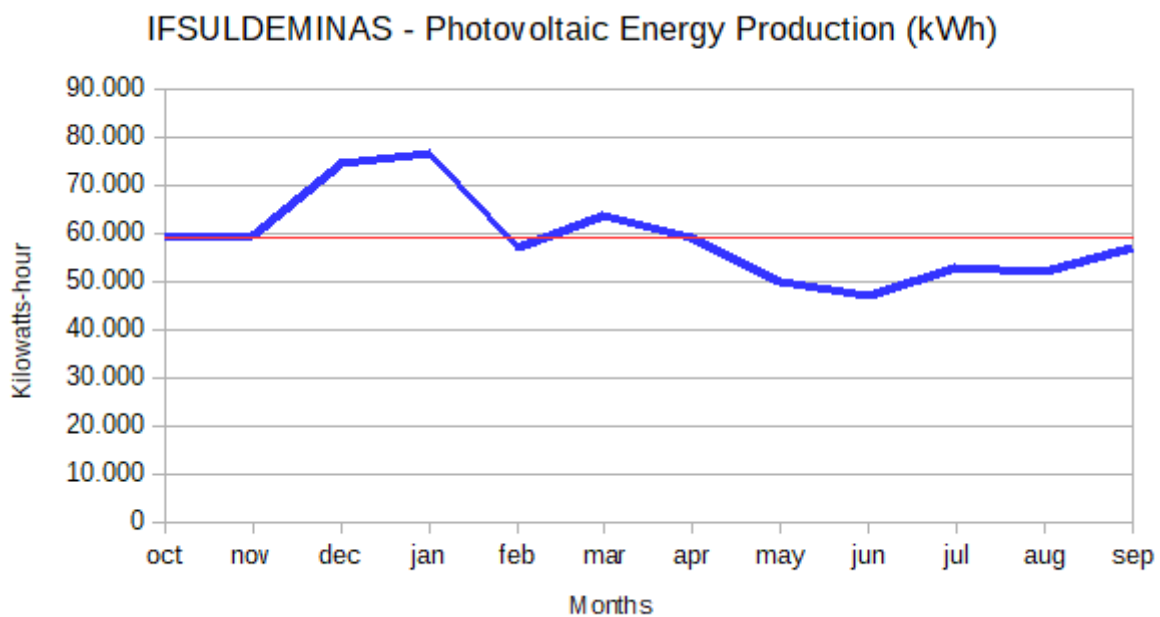
University : IFSULDEMINAS
Country : BRAZIL
Web Address : <https://www.ifsuldeminas.edu.br/index.php>

[2] Energy and Climate Change (EC)

[2.5] Renewable energy produce inside campus

Photovoltaic Energy	Production (kWh)										
	Total	CDM	TCO	INC	MCH	MUZ	PAS	PCS	POA	RET	
2018	oct	59.011	3.052	4.189	7.860	5.640	7.770	7.990	7.860	6.870	7.780
	nov	59.321	3.234	4.514	8.220	4.513	7.380	7.650	7.500	7.830	8.480
	dec	74.396	4.326	5.920	10.280	5.960	10.180	9.910	8.130	9.600	10.090
2019	jan	76.726	4.366	6.080	9.730	6.280	10.600	10.170	9.620	9.710	10.170
	feb	56.893	3.164	4.452	7.290	4.557	7.910	7.440	8.000	6.720	7.360
	mar	63.468	3.502	4.796	7.920	5.190	8.410	7.870	9.660	7.620	8.500
	apr	59.103	3.283	4.150	7.270	5.250	7.910	7.810	8.270	6.820	8.340
	may	49.729	2.776	3.475	6.430	4.768	6.320	6.750	6.250	5.880	7.080
	jun	47.108	2.723	3.144	5.800	4.921	6.230	6.370	5.610	5.520	6.790
	jul	52.707	3.124	3.563	6.420	5.540	7.260	6.830	6.270	5.970	7.730
	aug	52.004	3.051	3.723	6.820	5.060	7.170	7.030	6.370	5.150	7.630
	sep	56.983	3.214	4.289	7.000	5.470	8.190	7.950	6.600	6.870	7.400
Total	707.449	39.815	52.295	91.040	63.149	95.330	93.770	90.140	84.560	97.350	
Average	58.954	3.318	4.358	7.587	5.262	7.944	7.814	7.512	7.047	8.113	

Table 1: Photovoltaic energy production of all units of IFSULDEMINAS in the last 12 months. Source: Fronius System. Available at: <https://www.solarweb.com/>.



Graphic 1: Photovoltaic energy production of all units of IFSULDEMINAS in the last 12 months.



Figure 1: Campus Inconfidentes solar power plant.



Figure 2: Campus Machado solar power plant.



Figure 3: Campus Muzambinho solar power plant.



Figure 4: Campus Passos solar power plant.



Figure 5: Campus Poços de Caldas solar power plant.



Figure 6: Campus Pouso Alegre solar power plant.



Figure 7: Campus Carmo de Minas solar power plant.



Figure 8: Campus Três Corações solar power plant.



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.



Figure 13. Swine waste treatment unit for biogas production.



Figure 14. Swine waste treatment unit for biogas production.

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>.