

# UI GreenMetric Answer 2019

ifsuldeminas.edu.br

## University Profile

Username : ifsuldeminas.edu.br  
 University Name : Instituto Federal de Educação, Ciência e Tecnologia do Sul de Minas Gerais  
 University Leader : Marcelo Bregagnoli

## PIC Profile

PIC Name : Marcelo Bregagnoli  
 PIC Position : Rector  
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No	Question	Choice	Answer
<b>Setting and Infrastructure</b>			
1.1(o)	Type of higher education institution	<input type="radio"/> Comprehensive <input type="radio"/> Specialized higher education institution <input checked="" type="radio"/> Specialized higher education institution	Specialized higher education institution
1.2(o)	Climate	<input type="radio"/> Tropical Wet <input type="radio"/> Tropical Wet and Dry <input type="radio"/> Semiarid <input type="radio"/> Arid <input type="radio"/> Mediterranean <input checked="" type="radio"/> Humid Subtropical <input type="radio"/> Marine west coast / Oceanic Climate <input type="radio"/> Humid Continental <input type="radio"/> Subartic	Humid Subtropical
1.3(o)	Number of campus site		9
1.4(o)	Campus setting	<input type="radio"/> Rural <input type="radio"/> Suburban <input type="radio"/> Urban <input checked="" type="radio"/> In city center <input type="radio"/> High rise building	Rural
1.5(o)	Total campus area (m <sup>2</sup> )		7207076
1.6(o)	Total campus ground floor area of buildings (m <sup>2</sup> )		139363
1.7(o)	Total campus buildings area (m <sup>2</sup> )		170556
1.8(SI.1)	The ratio of open space to total area. Formula: $((1.5-1.6/1.5)*100\%)$	<input type="radio"/> <= 1% <input type="radio"/> > 1 - 80% <input type="radio"/> > 80 - 90% <input type="radio"/> > 90 - 95% <input checked="" type="radio"/> > 95%	> 95%
1.9(SI.2)	Total area on campus covered in forest vegetation (please provide total area in square meters)	<input type="radio"/> <= 2% <input type="radio"/> > 2 - 9% <input checked="" type="radio"/> > 9 - 22% <input type="radio"/> > 22 - 35% <input type="radio"/> > 35%	> 22 - 35%   Total area : 1941284
1.10(SI.3)	Total area on campus covered in planted vegetation (please provide total area in square meters)	<input type="radio"/> <= 10% <input type="radio"/> > 10 - 20% <input checked="" type="radio"/> > 20 - 30% <input type="radio"/> > 30 - 40% <input type="radio"/> > 40%	> 40%   Total area : 3730646
1.11(SI.4)	Total area on campus for water absorption besides forest and planted vegetation (please provide total area in square meters)	<input type="radio"/> <= 2% <input type="radio"/> > 2 - 10% <input checked="" type="radio"/> > 10 - 20% <input type="radio"/> > 20 - 30% <input type="radio"/> > 30%	> 20 - 30%   Total area : 1473419
1.12(o)	Total number of regular students (part time and full time)		15823

No	Question	Choice	Answer
1.13(o)	Total number of online students (part time and full time)		10036
1.14(o)	Total number of academic and administrative staff		1637
1.15(SI.5)	The total open space area divided by total campus population. Formula: $((1.5-1.6)/(1.12+1.14))$	<input type="radio"/> $\leq 10 \text{ m}^2$ <input type="radio"/> $> 10 - 20 \text{ m}^2$ <input type="radio"/> $> 20 - 40 \text{ m}^2$ <input checked="" type="radio"/> $> 40 - 70 \text{ m}^2$ <input type="radio"/> $> 70 \text{ m}^2$	<input checked="" type="radio"/> $> 70 \text{ m}^2$
1.16(o)	Total university's budget (in US Dollars)		14436152
1.17(o)	University's budget for sustainability effort (in US Dollars)		794916
1.18(SI.6)	Percentage of University's budget for sustainability effort within a year	<input type="radio"/> $\leq 1\%$ <input type="radio"/> $> 1 - 3\%$ <input checked="" type="radio"/> $> 3 - 10\%$ <input type="radio"/> $> 10 - 12\%$ <input type="radio"/> $> 12\%$	<input checked="" type="radio"/> $> 3 - 10\%$
<b>Energy and Climate Change</b>			
2.1(EC.1)	Energy efficient appliances usage	<input type="radio"/> $< 1\%$ <input type="radio"/> $1 - 25\%$ <input checked="" type="radio"/> $> 25 - 50\%$ <input type="radio"/> $> 50 - 75\%$ <input type="radio"/> $> 75\%$	<input checked="" type="radio"/> $> 75\%$
2.2(o)	Total campus smart building area ( $\text{m}^2$ )		51200
2.3(EC.2)	Smart Building implementation (percentage of the total floor area of smart building to the total all floors building area (smart and non-smart buildings area).	<input type="radio"/> $< 1\%$ <input type="radio"/> $1\% - 25\%$ <input checked="" type="radio"/> $> 25\% - 50\%$ <input type="radio"/> $> 50\% - 75\%$ <input type="radio"/> $> 75\%$	<input checked="" type="radio"/> $> 25\% - 50\%$
2.4(EC.3)	Number of renewable energy sources in campus (solar power, bio diesel, wind power, etc)	<input type="radio"/> None <input type="radio"/> 1 source <input type="radio"/> 2 sources <input checked="" type="radio"/> 3 sources <input type="radio"/> $> 3$ sources	<input checked="" type="radio"/> 3 sources
2.5(o)	Please specify renewable energy sources in campus and provide capacity produced in kilowatt hour	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Bio Diesel <input type="checkbox"/> Clean Biomass <input type="checkbox"/> Solar Power <input type="checkbox"/> Wind Power <input type="checkbox"/> Geothermal <input type="checkbox"/> Hydropower <input type="checkbox"/> Combine Heat and Power	<input checked="" type="checkbox"/> Hydropower   Total kWh : 301840 <input checked="" type="checkbox"/> Solar Power   Total kWh : 707449 <input checked="" type="checkbox"/> Clean Biomass   Total kWh : 57714
2.6(o)	Electricity usage per year (in kilo watt hour)		2959904
2.7(EC.4)	The total electricity usage divided by total campus population (kWh per person). Formula: $(2.6) / (1.12+1.14)$	<input type="radio"/> $\geq 2424 \text{ kWh}$ <input type="radio"/> $< 2424 - 1535 \text{ kWh}$ <input checked="" type="radio"/> $< 1535 - 633 \text{ kWh}$ <input type="radio"/> $< 633 - 279 \text{ kWh}$ <input type="radio"/> $< 279 \text{ kWh}$	<input checked="" type="radio"/> $< 279 \text{ kWh}$
2.8(EC.5)	The ratio of renewable energy production divided by total energy usage per year	<input type="radio"/> $\leq 0.5\%$ <input type="radio"/> $> 0.5 - 1\%$ <input checked="" type="radio"/> $> 1 - 2\%$ <input type="radio"/> $> 2 - 25\%$ <input type="radio"/> $> 25\%$	<input checked="" type="radio"/> $> 25\%$

No	Question	Choice	Answer
2.9(EC.6)	Elements of green building implementation as reflected in all construction and renovation policies	<input type="radio"/> None <input type="radio"/> 1 element <input type="radio"/> 2 elements <input type="radio"/> 3 elements <input type="radio"/> > 3 elements	<input checked="" type="radio"/> > 3 elements
2.10(EC.7)	Greenhouse gas emission reduction program	<input type="radio"/> None (reduction program is needed, but nothing has been done) <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> Program(s) aims to reduce one out of three scopes emissions (Scope 1 or 2 or 3) <input type="radio"/> Program(s) aims to reduce two out of three scopes emissions (Scope 1 and 2 or Scope 1 and 3 or Scope 2 and 3) <input type="radio"/> Program(s) aims to reduce all three scopes emissions (Scope 1, 2 and 3)	<input checked="" type="radio"/> Program(s) aims to reduce all three scopes emissions (Scope 1, 2 and 3)
2.11(o)	Please provide the total carbon footprint (CO <sub>2</sub> emission in the last 12 months, in metric tons)		3269
2.12(EC.8)	The total carbon footprint divided by total campus population (metric tons per person). Formula: (2.11)/(1.12+1.14)	<input type="radio"/> ≥ 2.05 metric ton <input type="radio"/> < 2.05 - 1.11 metric ton <input type="radio"/> < 1.11 - 0.42 metric ton <input type="radio"/> < 0.42 - 0.10 metric ton <input type="radio"/> < 0.10 metric ton	<input checked="" type="radio"/> < 0.42 - 0.10 metric ton
<b>Waste</b>			
3.1(WS.1)	Recycling program for university waste	<input type="radio"/> Not Applicable <input type="radio"/> Partial (1% - 25% of waste) <input type="radio"/> Partial (> 25% - 50% of waste) <input type="radio"/> Partial (> 50% - 75% of waste) <input type="radio"/> Extensive (> 75% waste)	<input checked="" type="radio"/> Extensive (> 75% waste)
3.2(WS.2)	Program to reduce the use of paper and plastic on campus	<input type="radio"/> Not applicable. If there is no program in your university. <input type="radio"/> 1 program <input type="radio"/> 2 programs <input type="radio"/> 3 programs <input type="radio"/> more than 3 programs	<input checked="" type="radio"/> more than 3 programs

No	Question	Choice	Answer
3.3(W.S.3)	Organic waste treatment	<input type="radio"/> Open dumping <input type="radio"/> Partial (1% - 25% of treated) <input type="radio"/> Partial (> 25% - 50% of treated) <input type="radio"/> Partial (> 50% - 75% of treated) <input type="radio"/> Extensive (> 75% treated)	<input checked="" type="radio"/> Extensive (> 75% treated)
3.4(W.S.4)	Inorganic waste treatment	<input type="radio"/> Burned in the open <input type="radio"/> Partial (1% - 25% of treated) <input type="radio"/> Partial (> 25% - 50% of treated) <input type="radio"/> Partial (> 50% - 75% of treated) <input type="radio"/> Extensive (> 75% treated)	<input checked="" type="radio"/> Extensive (> 75% treated)
3.5(W.S.5)	Toxic waste treatment	<input type="radio"/> Not Managed <input type="radio"/> Partial (1% - 25% of treated) <input type="radio"/> Partial (> 25% - 50% of treated) <input type="radio"/> Partial (> 50% - 75% of treated) <input type="radio"/> Extensive (> 75% treated)	<input checked="" type="radio"/> Extensive (> 75% treated)
3.6(W.S.6)	Sewage disposal	<input type="radio"/> Untreated to waterways <input type="radio"/> Treated conventionally <input type="radio"/> Treated technically for reuse <input type="radio"/> Treatment for down cycling <input type="radio"/> Treatment for up cycling	<input checked="" type="radio"/> Treatment for up cycling
<b>Water</b>			
4.1(WR.1)	Water conservation program implementation	<input type="radio"/> None (Conservation program is needed, but nothing has been done) <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> 1 - 25% implemented at early stage (e.g. measurement of potential surface runoff volume) <input type="radio"/> > 25 - 50% water conserved <input type="radio"/> > 50% water conserved	<input checked="" type="radio"/> > 50% water conserved

No	Question	Choice	Answer
4.2(WR.2)	Water recycling program implementation	<input type="radio"/> None (Water recycling program is needed, but nothing has been done) <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> 1 - 25% Implemented at early stage (e.g. measurement of waste water) <input type="radio"/> > 25 - 50% water recycled <input checked="" type="radio"/> > 50% water recycled	<input checked="" type="radio"/> > 50% water recycled
4.3(WR.3)	Water efficient appliance usage	<input type="radio"/> None (Water efficient appliances is needed, but nothing has been done) <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> 1 - 25% of water efficient appliances installed <input type="radio"/> > 25 - 50% of water efficient appliances installed <input checked="" type="radio"/> > 50% of water efficient appliances installed	<input checked="" type="radio"/> > 50% of water efficient appliances installed
4.4(WR.4)	Treated water consumed	<input type="radio"/> None <input type="radio"/> 1% - 25% treated water consumed <input type="radio"/> > 25% - 50% treated water consumed <input type="radio"/> > 50% - 75% treated water consumed <input checked="" type="radio"/> > 75% treated water consumed	<input checked="" type="radio"/> > 75% treated water consumed

**Transportation**

5.1(o)	Number of cars actively used and managed by University		154
5.2(o)	Number of cars entering the university daily		2432
5.3(o)	Number of motorcycles entering the university daily		665
5.4(TR.1)	The total number of vehicles (cars and motorcycles) divided by total campus population. Formula: $(5.1+5.2+5.3)/(1.12+1.14)$	<input type="radio"/> $\geq 1$ <input type="radio"/> < 1 - 0.5 <input type="radio"/> < 0.5 - 0.125 <input checked="" type="radio"/> < 0.125 - 0.045 <input type="radio"/> < 0.045	<input checked="" type="radio"/> < 0.5 - 0.125

No	Question	Choice	Answer
5.5(TR.2)	Shuttle service	<input type="radio"/> Shuttle service is possible but not provided by university <input type="radio"/> Shuttle service is provided (by university or other parties) and regular but not free <input type="radio"/> Shuttle service is provided (by university or other parties) and the university contributes a part of the cost. <input type="radio"/> Shuttle service is provided by university, regular, and free <input type="radio"/> Shuttle service is provided by university, regular, and zero emission. Or shuttle use is not possible (not applicable)	<input checked="" type="radio"/> Shuttle service is provided by university, regular, and zero emission. Or shuttle use is not possible (not applicable)
5.6(o)	Number of shuttles operated in your university		70
5.7(o)	Average number of passengers of each shuttle		30
5.8(o)	Total trips of shuttle services each day		140
5.9(TR.3)	Zero Emission Vehicles (ZEV) policy on campus	<input type="radio"/> Zero Emission Vehicles are not available <input type="radio"/> Zero Emission Vehicles use is not possible or practical <input type="radio"/> Zero Emission Vehicles are available, but not provided by university <input type="radio"/> Zero Emission Vehicles are available, and provided by university and charged <input type="radio"/> Zero Emission Vehicles are available, and provided by university for free	<input checked="" type="radio"/> Zero Emission Vehicles are available, and provided by university for free
5.10(o)	Average number of Zero Emission Vehicles (e.g. bicycles, cano, snowboard, electric car, etc.) on campus per day		201

No	Question	Choice	Answer
5.11(TR.4)	The total number of Zero Emission Vehicles (ZEV) divided by total campus population. Formula: (5.10)/(1.12+1.14)	<input type="radio"/> ≤ 0.002 <input type="radio"/> > 0.002 - 0.004 <input type="radio"/> > 0.004 - 0.008 <input type="radio"/> > 0.008 - 0.02 <input type="radio"/> > 0.02	<input checked="" type="radio"/> > 0.008 - 0.02
5.12(o)	Total parking area (m <sup>2</sup> )		59182
5.13(TR.5)	Ratio of parking area to total campus area. Formula: ((5.12/1.5) x 100%)	<input type="radio"/> > 11% <input type="radio"/> < 11 - 7% <input type="radio"/> < 7 - 4% <input type="radio"/> < 4 - 1% <input type="radio"/> < 1%	<input checked="" type="radio"/> < 1%
5.14(TR.6)	Transportation program designed to limit or decrease the parking area on campus for the last 3 years (from 2016 to 2018)	<input type="radio"/> Not Applicable <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> Less than 10% decrease <input type="radio"/> Between 10% - 30% decrease <input type="radio"/> Program resulting in more than 30% decrease in parking or parking is restricted	<input checked="" type="radio"/> Program resulting in more than 30% decrease in parking or parking is restricted
5.15(TR.7)	Number of transportation initiatives to decrease private vehicles on campus (e.g. car sharing, charging high parking fees, metro / tram / bus services and etc)	<input type="radio"/> Not Applicable <input type="radio"/> 1 initiative <input type="radio"/> 2 initiatives <input type="radio"/> 3 initiatives <input type="radio"/> > 3 initiatives	<input checked="" type="radio"/> > 3 initiatives
5.16(TR.8)	Pedestrian path policy on campus	<input type="radio"/> Pedestrian paths are not applicable <input type="radio"/> Pedestrian paths are available <input type="radio"/> Pedestrian paths are available, and design for safety <input type="radio"/> Pedestrian paths are available, designed for safety and convenience <input type="radio"/> Pedestrian paths are available, designed for safety, convenience, and in some parts provided with disabled-friendly features	<input checked="" type="radio"/> Pedestrian paths are available, designed for safety, convenience, and in some parts provided with disabled-friendly features
5.17(o)	Approximate daily travel distance of a vehicle inside campus only (in Kilometers)		4
<b>Education and Research</b>			
6.1(o)	Number of courses/subjects related to sustainability offered		96
6.2(o)	Total number of courses/subjects offered		199

No	Question	Choice	Answer
6.3(ED.1)	The ratio of sustainability courses to total courses/subjects	<input type="radio"/> <= 1% <input type="radio"/> > 1 - 5% <input type="radio"/> > 5 - 10% <input type="radio"/> > 10 - 20% <input checked="" type="radio"/> > 20%	
6.4(o)	Total research funds dedicated to sustainability research (in US Dollars) (average per annum over the last 3 years).		5647
6.5(o)	Total research funds (in US Dollars) (average per annum over the last 3 years).		34939
6.6(ED.2)	The ratio of sustainability research funding to total research funding	<input type="radio"/> <= 1% <input type="radio"/> > 1 - 8% <input type="radio"/> > 8 - 20% <input checked="" type="radio"/> > 20 - 40% <input type="radio"/> > 40%	
6.7(ED.3)	Number of scholarly publications on sustainability published. (average annually for the past 3 years)	<input type="radio"/> 0 <input type="radio"/> 1 - 20 <input type="radio"/> 21 - 83 <input checked="" type="radio"/> 84 - 300 <input type="radio"/> > 300	
6.8(ED.4)	Number of events related to sustainability. (average annually for the past 3 years)	<input type="radio"/> 0 <input type="radio"/> 1 - 4 <input type="radio"/> 5 - 17 <input checked="" type="radio"/> 18 - 47 <input type="radio"/> > 47	
6.9(ED.5)	Number of student organizations related to sustainability	<input type="radio"/> 0 <input type="radio"/> 1 - 2 <input type="radio"/> 3 - 4 <input type="radio"/> 5 - 10 <input checked="" type="radio"/> > 10	
6.10(ED.6)	University-run sustainability website	<input type="radio"/> Not available <input type="radio"/> Website in progress or under construction <input type="radio"/> Website is available and accessible <input checked="" type="radio"/> Website is available, accessible, and updated occasionally <input type="radio"/> Website is available, accessible, and updated regularly	
6.11(o)	Sustainability website address (URL) if available		<a href="https://portal.ifsuldeminas.edu.br/pls">https://portal.ifsuldeminas.edu.br/pls</a> ; <a href="https://portal.ifsuldeminas.edu.br/index.php/component/content/article/2-sem-categoria/388-plano-de-gestao-de-logistica-sustentavel">https://portal.ifsuldeminas.edu.br/index.php/component/content/article/2-sem-categoria/388-plano-de-gestao-de-logistica-sustentavel</a> ; <a href="https://ceam.muz.ifsuldeminas.edu.br/">https://ceam.muz.ifsuldeminas.edu.br/</a>
6.12(ED.7)	Sustainability report	<input type="radio"/> Not available <input type="radio"/> Sustainability report is in preparation <input type="radio"/> Sustainability report is available and accessible <input checked="" type="radio"/> Sustainability report is available, accessible and updated occasionally <input type="radio"/> Sustainability report is available, accessible and updated annually	