



# Carbon footprint of Japanese professional football team in 2020

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- 3) Green Sports Alliance Japan



## 1 Background



Sports for Climate Action Framework



The framework will show the importance of climate change countermeasures related to sports and contribute cooperatively to climate change countermeasures due to the strength of the impact of climate change on sports, the impact of the implementation of sporting events, etc. on the environment, and the strength of people's interest in sports itself.

**Objectives:**

1. Achieving a clear trajectory for the global sports community to combat climate change, through commitments and partnerships according to verified standards, including measuring, reducing, and reporting greenhouse gas emissions, in line with the well below 2 degree scenario enshrined in the Paris Agreement;
2. Using sports as a unifying tool to federate and create solidarity among global citizens for climate action.

**Signatories**

- Tokyo Organizing Committee for the Olympic and Paralympic Games
- UEFA
- IOC
- Ventforet Yamanashi Sports Club Co., Ltd.
- FIFA (International Football Confederation)
- Juventus
- Arsenal
- Liverpool F.C.
- etc ...

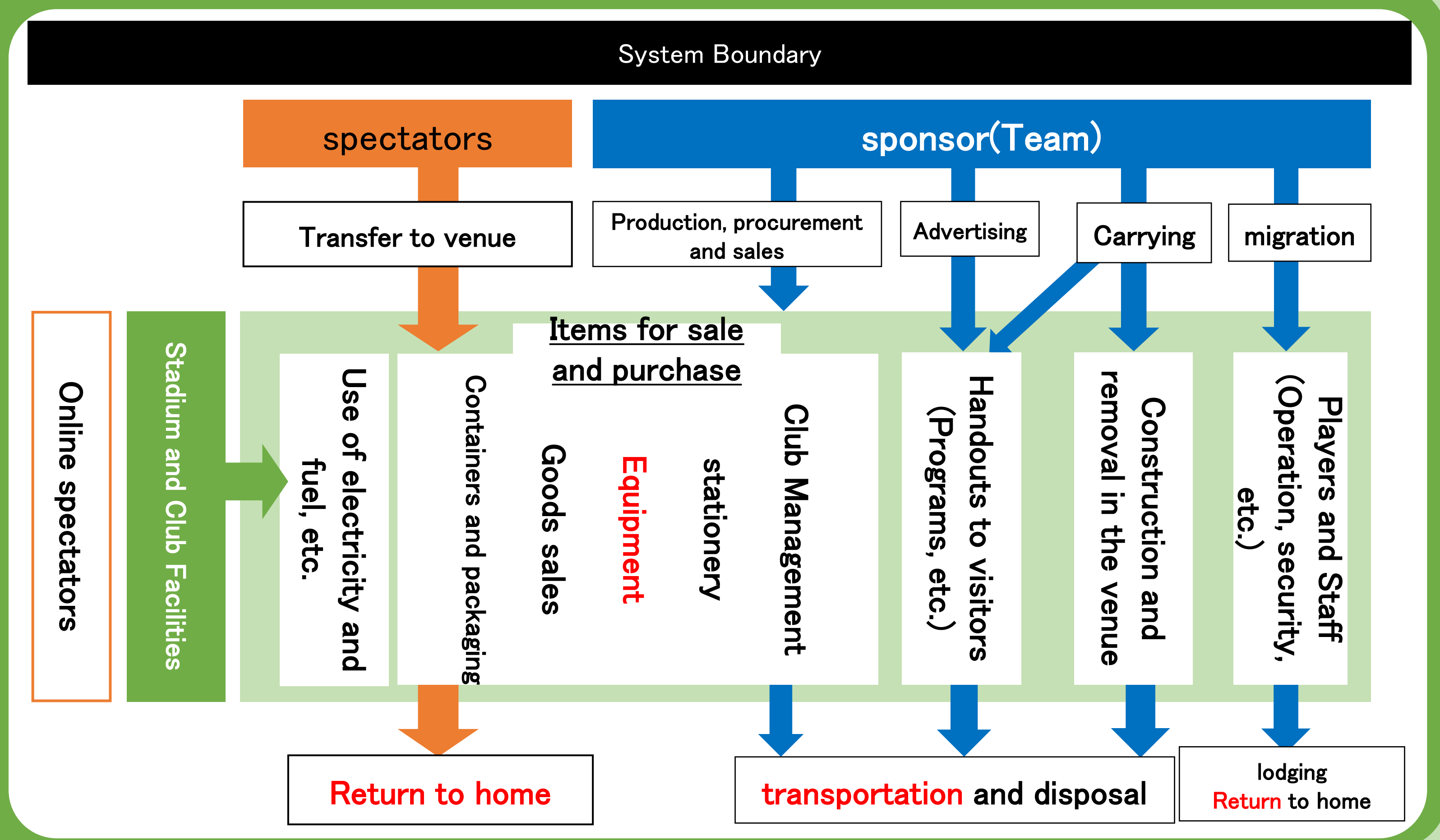
**Purpose**

Sports organizations are also needed to take actions of countermeasures climate change

Implementation of carbon footprint in professional football team to realize carbon management in sports.

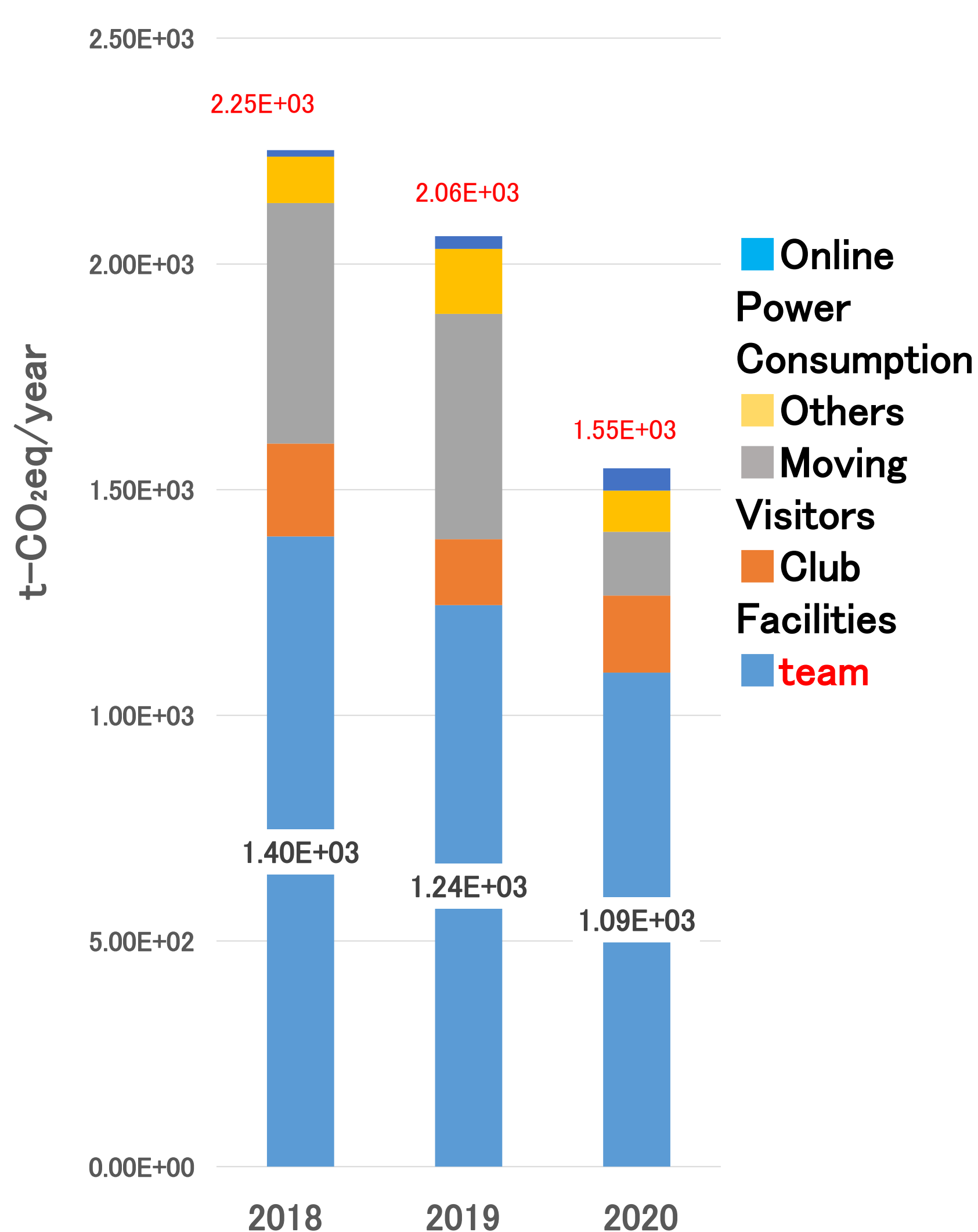
## 2 Research Methods

What to evaluate	Ventforet Yamanashi Sports Club Co., Ltd. (Belongs to Japanese 2 <sup>nd</sup> League)
Calculation method	inventory = Σ(Amount of activity × carbon intensity)
Amount of activity (yen) Primary data	Ventforet Yamanashi Sports Club Co., Ltd. 2018, 2019, 2020
Unit of original	Environmental Impact Unit Data Book (3EID) 2015 2019 Emission Factor by Electric Utility
Functional unit	Ventforet Yamanashi Sports Club Co., Ltd. • Business activities per year (by subject and financial results) • Business activities per game (by subject)

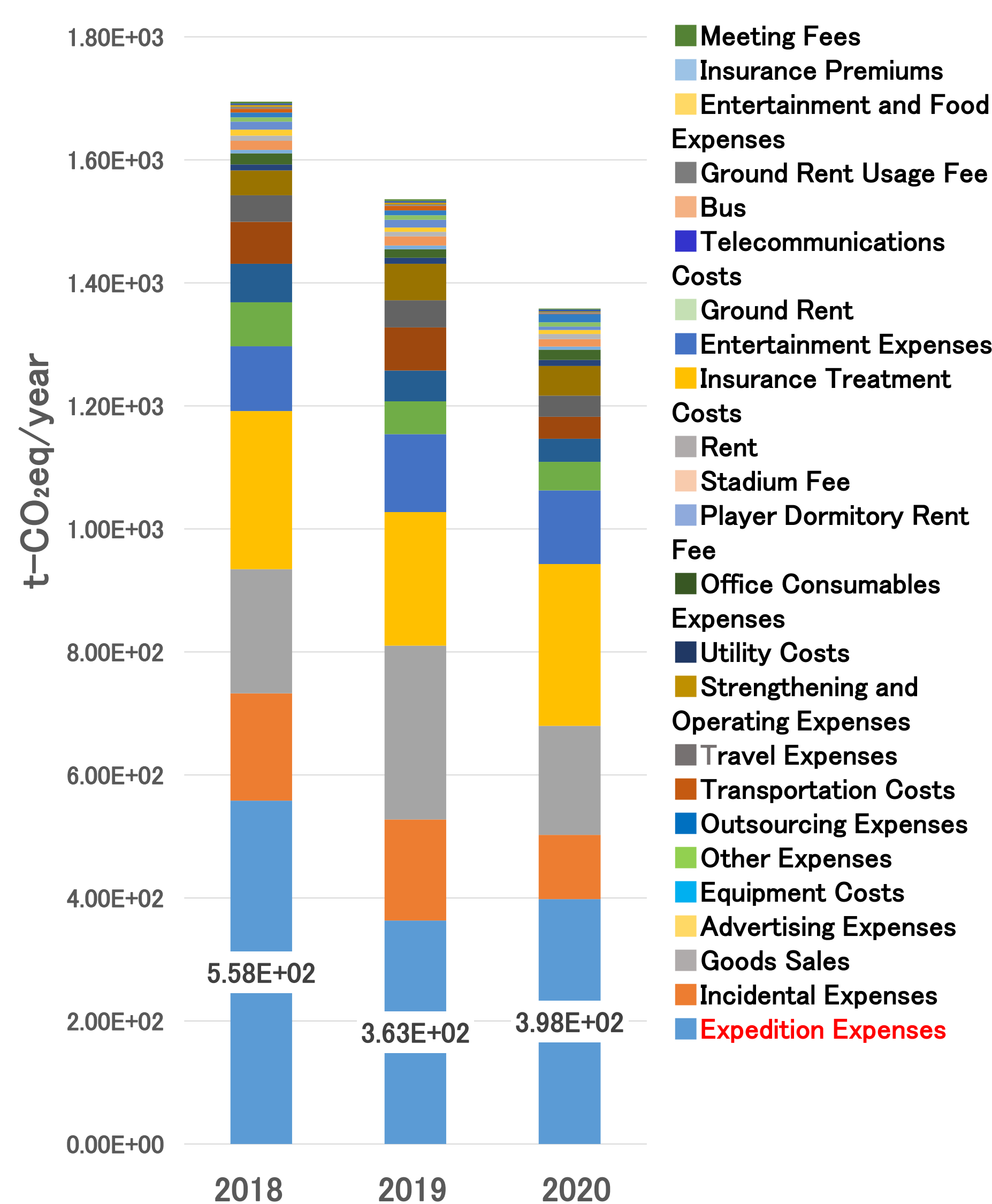


## 3 Research Results

Result by Subject



Result by Business Expensive



- ✓ Changes in audience movement have contributed to the reduction of CF significantly, but the changes of GHG emissions from the activities of team was smaller comparatively.
- ✓ The GHG emissions related with the organizer was the largest in three years.
- ✓ In fiscal 2020, GHG emissions from the movement of organizers and visitors have decreased significantly.
- ✓ The reason for the decrease in the number of visitors is that some games took places without spectator and the number of visitors decreased due to the limit of the number of visitors to minimize the risk of infections of COVID-19.
- ✓ Online spectators assumed power using a 30-40 type LCD TV (100V) for 120 minutes.

