2019 GHG Inventory Report

Control Method
Operational Control

Reporting Period
Calendar Year 2019

Methodology
GHG Corporate Protocol Accounting & Reporting Standard, 3.5.1

Rambus GHG Inventory Organizational & Operational Boundaries

Scope 1: Identified Sources of Emissions

One Owned Company Vehicle
- Assumed average gasoline price (EIA 2019 retail, California).
- Assumed gasoline consumed in 2019 equitable to gasoline purchased.

One Back-up Generator (North Carolina Facility)
- Assumed average cost diesel/gallon (EIA 2019 retail).
- Assumed diesel consumed equitable to diesel purchased.

Fire Suppression Equipment (Bangalore Facility)

Scope 1 Total: 8,330 Tonnes CO2e

Scope 2: Identified Sources of Emissions

None in 2019 (no controlled facilities)

Scope 3: Selected Reporting Categories

Purchased Goods & Services
- Assumed CAMX eGRID region for electricity CO2e calculations given market presence.
- Assumed diesel fuel #2 in noted diesel consumption.
- Data gap to revisit in 2020: Other <10% of chip production spend.

Business Travel
- Assumed provided information = 75% of annual total (Q2-Q4 data available only). Estimated 2019 CO2e tonnes with (total/0.75).

Employee Commute
- Assumed 250 work days.

Upstream Leased Electricity
- Glasgow facility omitted from 2019 emissions (commencement date 11/1/19).
- Est. square footage for facility in Japan.
- Utilized kWh/sq ft intensity figures from CBECS 2012 data based on facility size to estimate kWh electricity usage for facilities in Japan, Korea, and China (1.90% of facility operations by sq. ft.).

Upstream Leased Natural Gas
- Potential data gap to revisit for 2020 in number of facilities where Rambus pays for natural gas heating. Only consumption for the Sunnyvale Facility was included.

Scope 3 Total: 5,165.35 Tonnes CO2e

Calculations Tools & Sources

Upstream Leased Electricity
- Glasgow facility omitted from 2019 emissions (commencement date 11/1/19).
- Est. square footage for facility in Japan.
- Utilized kWh/sq ft intensity figures from CBECS 2012 data based on facility size to estimate kWh electricity usage for facilities in Japan, Korea, and China (1.90% of facility operations by sq. ft.).

Upstream Leased Natural Gas
- Potential data gap to revisit for 2020 in number of facilities where Rambus pays for natural gas heating. Only consumption for the Sunnyvale Facility was included.

Scope 3 Total: 5,165.35 Tonnes CO2e

Calculations Tools & Sources

Upstream Leased Electricity
- Glasgow facility omitted from 2019 emissions (commencement date 11/1/19).
- Est. square footage for facility in Japan.
- Utilized kWh/sq ft intensity figures from CBECS 2012 data based on facility size to estimate kWh electricity usage for facilities in Japan, Korea, and China (1.90% of facility operations by sq. ft.).

Upstream Leased Natural Gas
- Potential data gap to revisit for 2020 in number of facilities where Rambus pays for natural gas heating. Only consumption for the Sunnyvale Facility was included.

Scope 3 Total: 5,165.35 Tonnes CO2e

Calculations Tools & Sources

Upstream Leased Electricity
- Glasgow facility omitted from 2019 emissions (commencement date 11/1/19).
- Est. square footage for facility in Japan.
- Utilized kWh/sq ft intensity figures from CBECS 2012 data based on facility size to estimate kWh electricity usage for facilities in Japan, Korea, and China (1.90% of facility operations by sq. ft.).

Upstream Leased Natural Gas
- Potential data gap to revisit for 2020 in number of facilities where Rambus pays for natural gas heating. Only consumption for the Sunnyvale Facility was included.

Scope 3 Total: 5,165.35 Tonnes CO2e

Calculations Tools & Sources