System Generation for Waste Collection

EuroTeQ Waste Challenge

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Infineon is a globally leading semiconductor player

- top 10 semiconductor company
- ~50,280 employees

leading player in automotive, power management energy efficient technologies and the IoT

9%+ | 19% | 13%
target operating model

1 as of 30 September 2021
2 over the cycle: 9%+ revenue growth; 19% Segment Result Margin; investment-to-sales ratio of 13%; targets to be approached as Cypress integration progresses.
Megatrends, growth areas and growth drivers open up opportunities for semiconductor companies

Megatrends

- Demographic and social change
- Climate change and scarce resources
- Urbanization
- Digital transformation

Growth areas

- Energy efficiency
- Mobility
- Security
- IoT and big data

Growth drivers

- **Energy efficiency**
  - Power generation from renewable energy sources
  - Energy transmission and distribution
  - Energy storage
  - Energy usage

- **Mobility**
  - Electromobility
  - Charging infrastructure for electromobility
  - Automated driving
  - Passenger and freight transport
  - Infotainment

- **Security**
  - Mobile devices
  - Authentication for the IoT
  - Smart cards
  - Industrial applications
  - Connected vehicles
  - Integrity of devices

- **IoT and big data**
  - Human-machine-interaction
  - Consumer IoT
  - Industrial IoT
  - Data and communication infrastructure
  - Edge computing
We contribute a net CO₂ reduction of more than 70 million tons

Net ecological benefit: CO₂ emissions reduction of more than 70 million tons

Infineon is excellent in resource efficiency
We are committed to CO₂ neutrality by 2030
Our CO₂-saving applications are high-growth, we are part of the solution!
The ~1:33 ratio is expected to further improve in the coming years

Source: Infineon Sustainability Report 2021
Note: Compared to the last fiscal year, the increase in CO₂ burden can be mainly explained by the inclusion of the data from Cypress
Infineon is excellent in resource efficiency and committed to CO₂ neutrality – sustainability is in our DNA

Infineon ranks among the 10 percent most sustainable companies in the world¹

In CY20, we used resources in our manufacturing processes much more efficiently than the global average of the semiconductor industry:

- 44% less electricity consumed per cm² manufactured wafer
- 17% less water consumed per cm² manufactured wafer
- 67% less waste generated per cm² manufactured wafer

Infineon’s CO₂ target² by 2025 and 2030

Net CO₂ emissions in million tons of CO₂ equivalents²

1.15
-70%
0.35
-100%

<table>
<thead>
<tr>
<th>Year</th>
<th>CO₂ Emissions (million tons)</th>
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<tbody>
<tr>
<td>CY19</td>
<td>1.15</td>
</tr>
<tr>
<td>Target FY25</td>
<td>0.35</td>
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<tr>
<td>Target FY30</td>
<td>0.05</td>
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1 Avoiding direct emissions and further reducing energy consumption
2 Purchasing green electricity with guarantees of origin
3 Compensate the smallest part by certificates that combine development support and CO₂ abatement

¹ Based on the results of The Sustainability Yearbook 2022 by S&P Global in cooperation with RobecoSam
² Related to Scope 1 and 2 emissions

Source: Infineon Sustainability Report 2021
Innovative waste collection strategies as part of overall waste management enabled by semiconductors
Key Challenge Questions

› What is the current status on municipal waste collection?

› How can the municipal waste collection be established, enabled, strengthen with technologies using semiconductors?

› What are the strengths, weaknesses, opportunities, and threats of the waste collection system you suggested and how can the risks be managed?

› What are the environmental, social, economic, and governmental implications of your waste collection?
The proposed waste collection system will bring our society…

UN Sustainable Development Goals (SDGs)

› GOAL 3: Good Health and Well-being
› GOAL 6: Clean Water and Sanitation
› GOAL 7: Affordable and Clean Energy
› GOAL 9: Industry, Innovation and Infrastructure
› GOAL 11: Sustainable Cities and Communities
› GOAL 12: Responsible Consumption and Production
› GOAL 13: Climate Action
› GOAL 14: Life Below Water
› GOAL 15: Life On Land
Waste collection strategies is crucial part of waste management!
Part of your life. Part of tomorrow.