EindhovenAirport

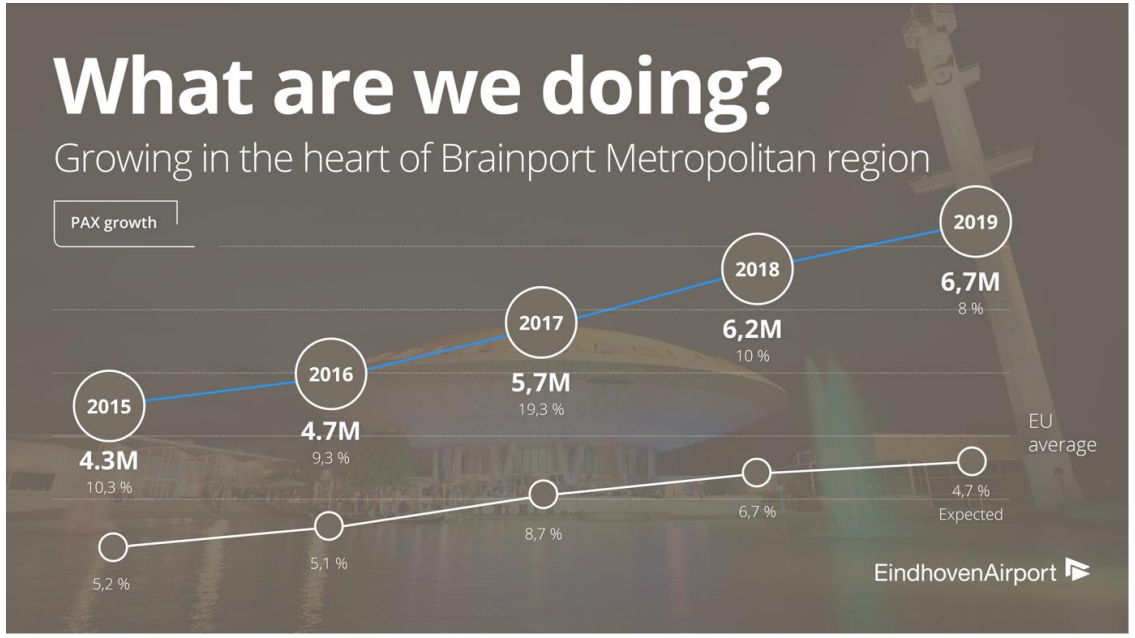
Sustainability Roadmap

Overview

1. Introduction and Purpose Eindhoven Airport
2. Roadmap Sustainability
3. Next steps

1. Introduction and purpose

Eindhoven Airport



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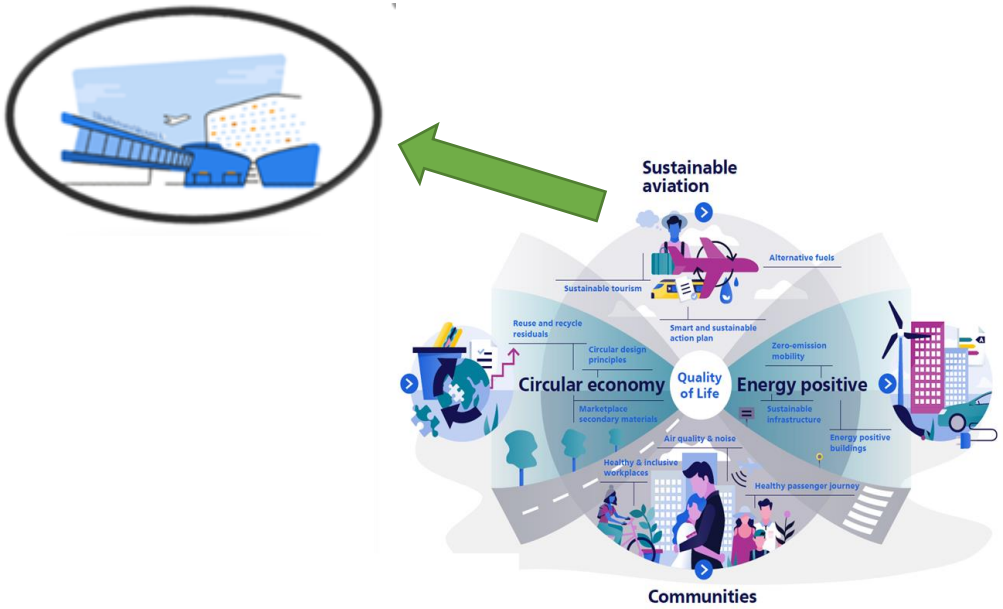
Purpose EA - Additional value for the region

Sustainability is one of the 4 basic conditions

Each development of the airport has to be responsible and sustainable: less nuisance and impact on the environment especially reduction of CO2 emissions and NOx.



2. Roadmap sustainability 2030

Ambition Eindhoven Airport four themes (2030)

Energy

- 0% CO2 emissions
  Control activities, buildings, parking and EA vehicles in 2030
- 0% CO2 emissions
  Ground service equipment in 2030

Circular Economy

- ‘0% waste’ in 2030
- 50% less use of natural resources in 2030

Sustainable Aviation

- 14% sustainable aviation fuel in 2030

Community

- Stimulate fleet renewal (60% in 2030) to reduce noise, CO_2 emissions and air pollution
- Stimulate sustainable transport to and from Airport
- Stimulate sustainable employment and employability & corporate social responsibility projects

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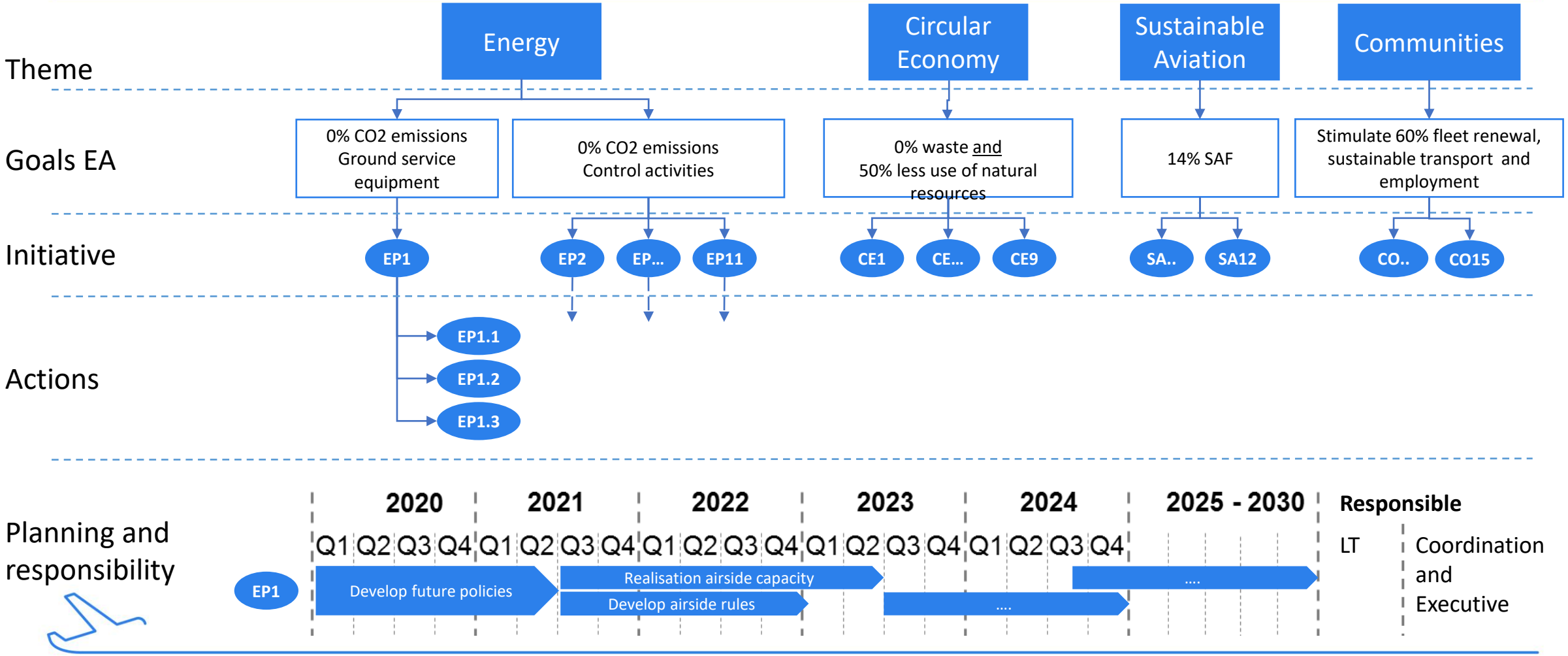
Structure roadmap



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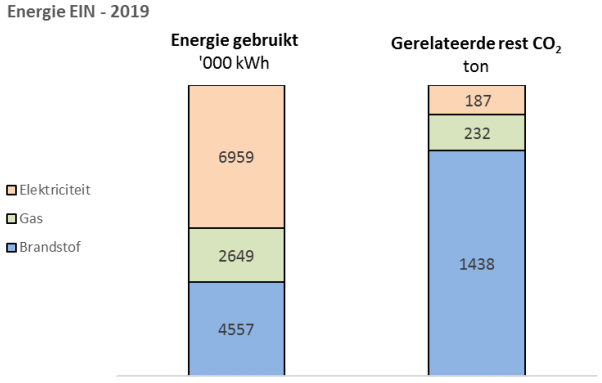
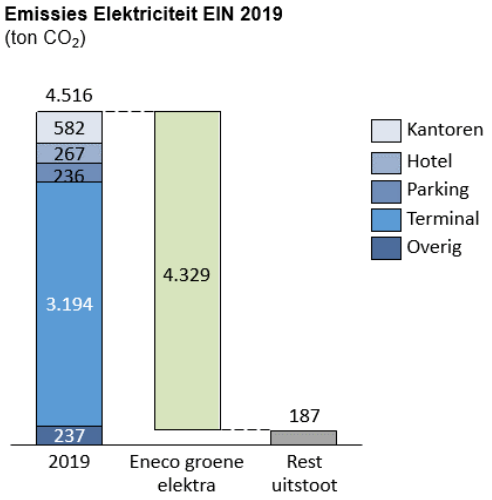
Energy - 11 Initiatives – 28 actions

	Eindhoven Airport Sustainability Roadmap Initiatives
Zero- emission mobility	EP1: Zero emission airside
	EP2: Zero emission EIN fleet
	EP3: Sustainable commuting
Buidlings	EP4: Heat Strategy
	EP5: Sustainable Buildings
	EP6: Research own electric network
Renewable Energy	EP7: Energy Management
	EP8: Photovoltaic (PV) power
	EP9: Grid strengthening and energy storage
	EP10: Improve sustainability third parties located on site
	EP11: Emergency power





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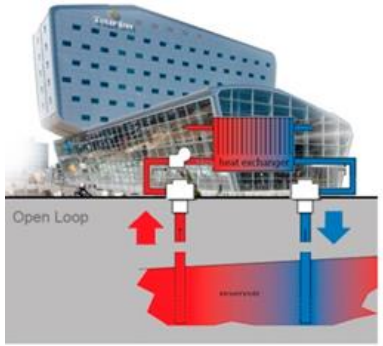
Energy - realised

HR ++ Glass

Electric Baggage

Solarpanels

Self sufficient stairs



Heat and cold storage

100 % green electricity
100 % green gas

LED lighting platform + parking

Water- and energy sufficient cleaning equipment

E-GPU

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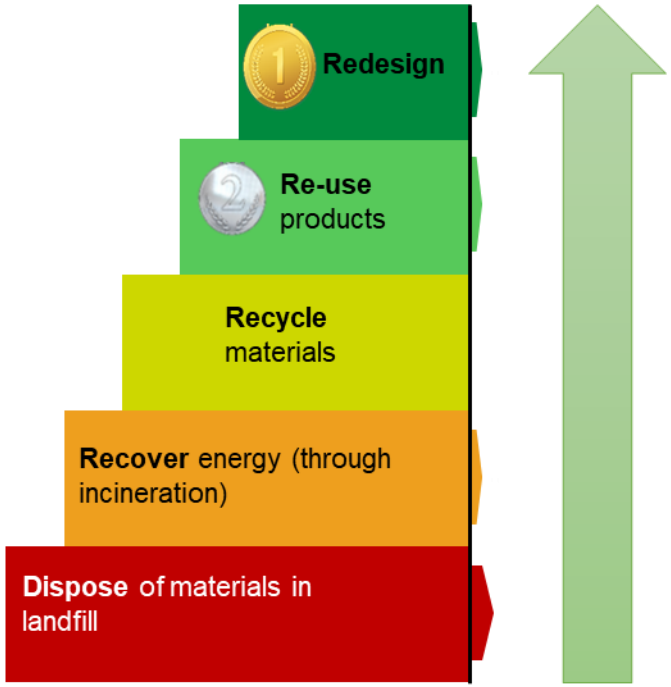
Circular Economy - 9 Initiatives – 32 actions

	Eindhoven Airport Sustainability Roadmap Initiatives
Infrastructure	CE1: Circular Design & training Employees
	CE2: Materials Pasaport
	CE3: Action plan Infrastructure waste
	CE4: Data collection and registration
	CE5: Materials Hub
Operational	CE6: Single Use plastics
	CE7: Source locally and procure sustainably
	CE8: Improve separation and recycling
	CE9: Glycol recycling



Ladder van Lansink

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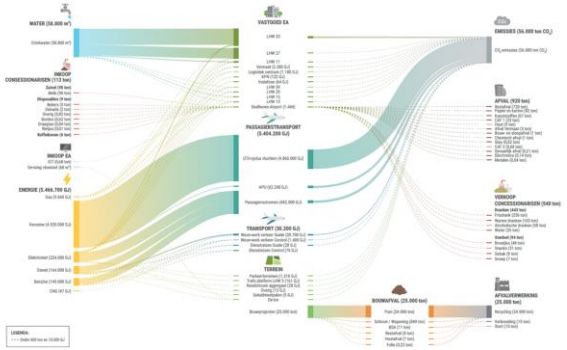
Circular Economy - realised

Reusable cups

Green Key GOUD

Tulip Inn Eindhoven Airport

Awareness employees



Material Flow analyses

P1 – BREEAM ***

Closing the loop

Circular building

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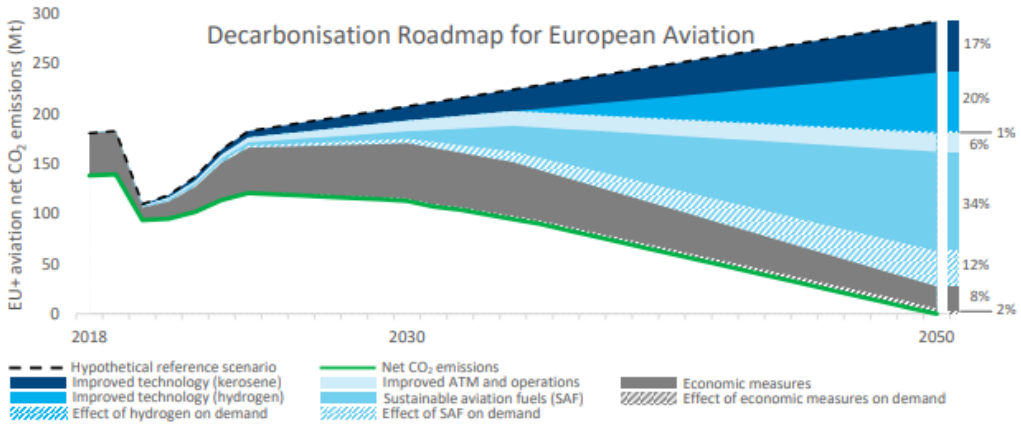
Sustainable Aviation - 12 Initiatives – 25 actions

	Eindhoven Airport Sustainability Roadmap Initiatives
Net-zero carbon aviation	SA1: Develop policy framework
	SA2: Sustainable Aviation Fuels
	SA3: Improve Airspace management
	SA4: Climate adaptation
	SA5: Sustainable taxiën
	SA6: Reduce APU
	SA7: Eurocontrol CEM
Sustainable passenger journey	SA8: Integrate sustainable passenger Journey
	SA9: Actively communicate with passengers about sustainability
	SA10: Offer passengers the option of (local) offsetting
	SA11: Wildlife trafficking
	SA12: Human trafficking and modern slavery



Results are presented for all flights within and departing from the EU region[2]. Improving aircraft and engine technology, ATM and aircraft operations, SAF and economic measures all hold decarbonisation potential. Modelled for 2030 and 2050, the impacts are linearly interpolated. The base year for this study is 2018.

Source: Destination 2050 – NLR (2021)

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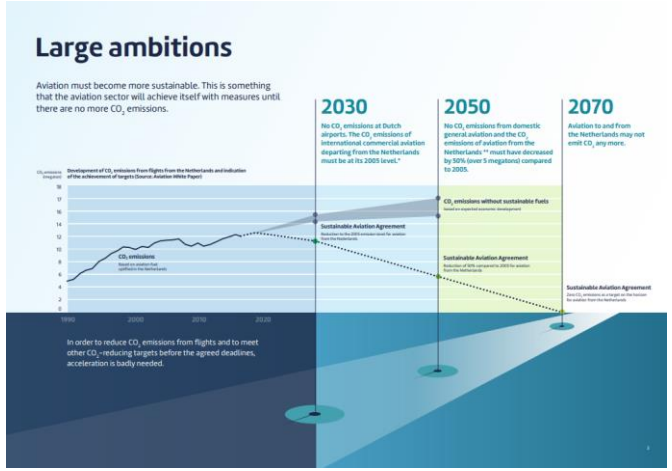
Sustainable Aviation

EUROPEAN AIRPORTS COMMITTING TO NET ZERO CARBON EMISSIONS BY ~~2050~~

2030

2050

NET ZERO



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Communities - 15 Initiatives – 39 actions

	Eindhoven Airport Sustainability Roadmap Initiatives
Dialog	CO1: Dialog local community
Responsible external effects	CO2: Noise Reduction
	CO3: Sustainable Slot allocation
	CO4: Sustainable criteria Airport charges
	CO5: Stimulate air-rail substitution
	CO6: Investing in accessibility infrastructure with a focus on sustainability
	CO7: Stimulate sustainable transport passengers
	CO8: Stimulate sustainable transport suppliers
	CO9: Reduce Ultrafine Particles
	CO10: Reduce Nox
Added value to the region	CO11: Preserve local environment & biodiversity
	CO12: Contribute to regional education
	CO13: Creating workplaces to people with difficulty accessing employment
Sustainable Employment	CO14: Creating sustainable, healthy and smart workplaces
	CO15: Sustainable employability

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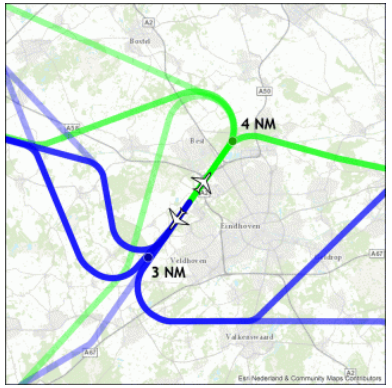
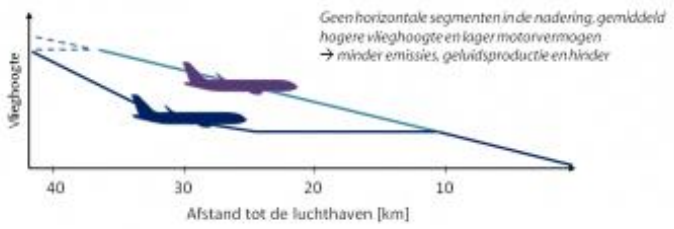
Community



Route optimalisation



CDA

Creating opportunities employment

Neighbours app

Max. 41.500 flight movements (until 2022)
No planned Flight movements > 23:00h (a.o. W2020)

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Community extra value Eindhoven Airport SDG’s

Communities

- 8 DECENT WORK AND ECONOMIC GROWTH: *Significant socio-economic impact, facilitating 65.000 jobs and generating considerable value for Dutch economy*
- 11 SUSTAINABLE CITIES AND COMMUNITIES: *RSG invests in making operations more sustainable and invests in reducing nuisance for residents and employees*

Sustainable Aviation

Energy Positive

- 13 CLIMATE ACTION: *Strong focus on decreasing our direct impact on climate change by using 100% renewable energy & invest in CO_2 emission reduction initiatives*

Circular Economy

- 12 RESPONSIBLE CONSUMPTION AND PRODUCTION: *Clear ambition to become a zero waste airport by increasingly integrating circular principles (also in tender procedures) and separating waste*

- 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE: *Sustainable investments in capacity and infra-structure. Focus on low energy consumption design of new buildings (with LEED and BREEAM certificates) and promoting clean mobility*

- 17 PARTNERSHIPS FOR THE GOALS: *Leading role in accelerating sustainable operations and sharing knowledge across the aviation industry*

SUSTAINABLE DEVELOPMENT GOALS

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