Yiannis Paraschis

Managing Director (CEO)

Athens International Airport S.A.

Session 2: Key Drivers for Innovation – Sustainability

Innovation & high level of ambition no longer 'nice to have'

- Aviation's climate impact small but growing
- Decarbonization remains difficult & expensive
- Society's awareness ↑ & its tolerance ↓
- Lack of sustainability puts air travel at risk for increased regulation
- Obtaining 'license to grow' evolving to maintaining 'license to operate'

Air Transport and the Environment

Which industry do ATH passengers believe is the most harmful to the environment?	28% Agricultural 27% Food & Retail 27% Construction 11% Aviation 7% Fashion

Impact of the aviation industry to the environment per continent…

Minor or no impact	73% Middle East 70% Europe 63% America 63% Asia/Pacific

Aviation industry is responsible for …

63% believe that the Aviation Industry is responsible for **3% of global CO2 emissions**

34% believe that the Aviation Industry is responsible for **16% of global CO2 emissions**

Source: Passenger Survey Dec 2023- Mar 2024 (n: 8,543)

AIA's Sustainability Strategy Statement

- Contribute to region's prosperity
- Align with ESG standards & best practices ...
- ... but go beyond compliance
- Low carbon frontrunner
- Integrate all stakeholder interests

Environmental Sustainability @ ATH

Aircraft Noise

Water Management

Waste Management

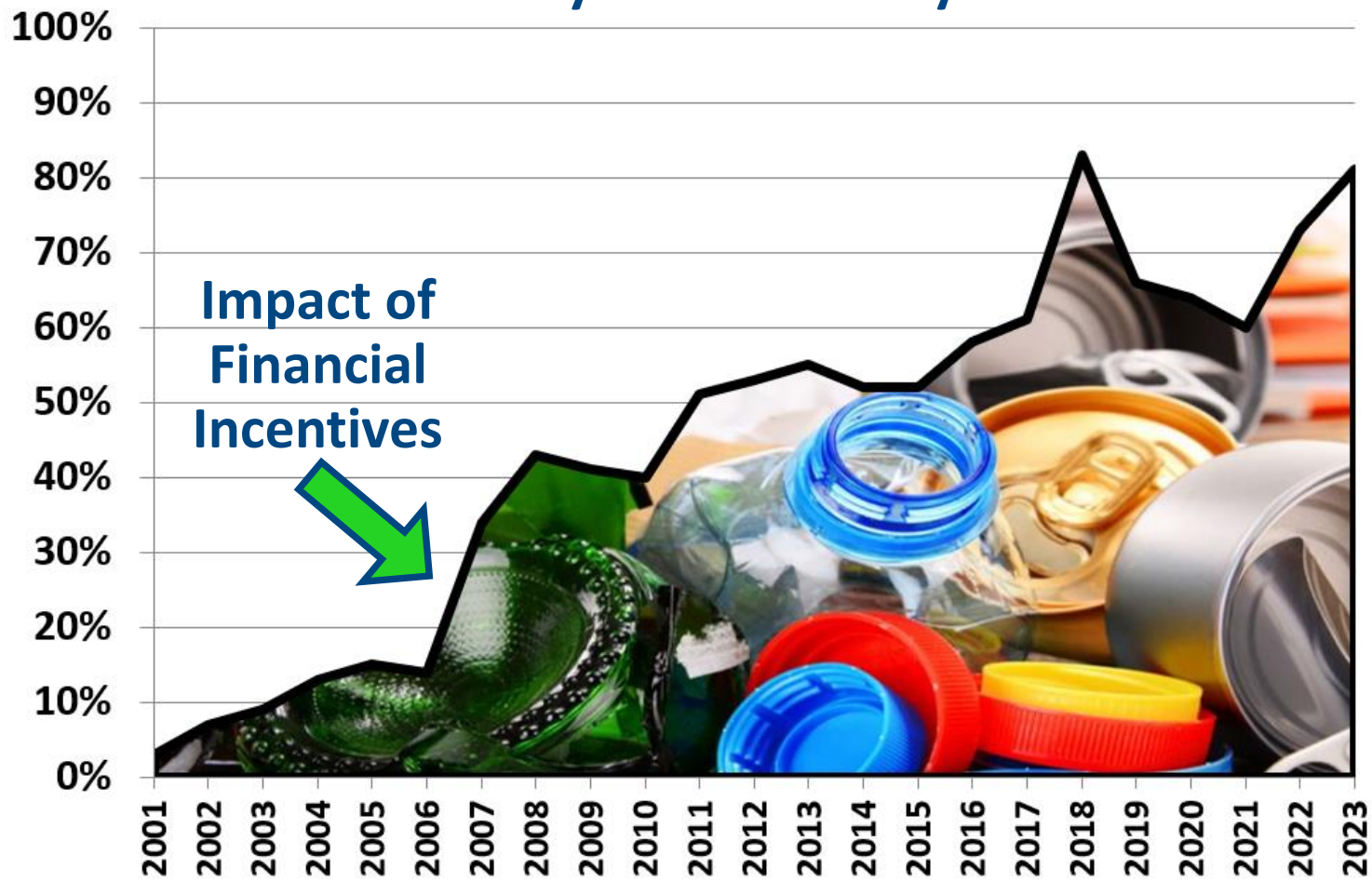
Air Quality

Biodiversity Protection

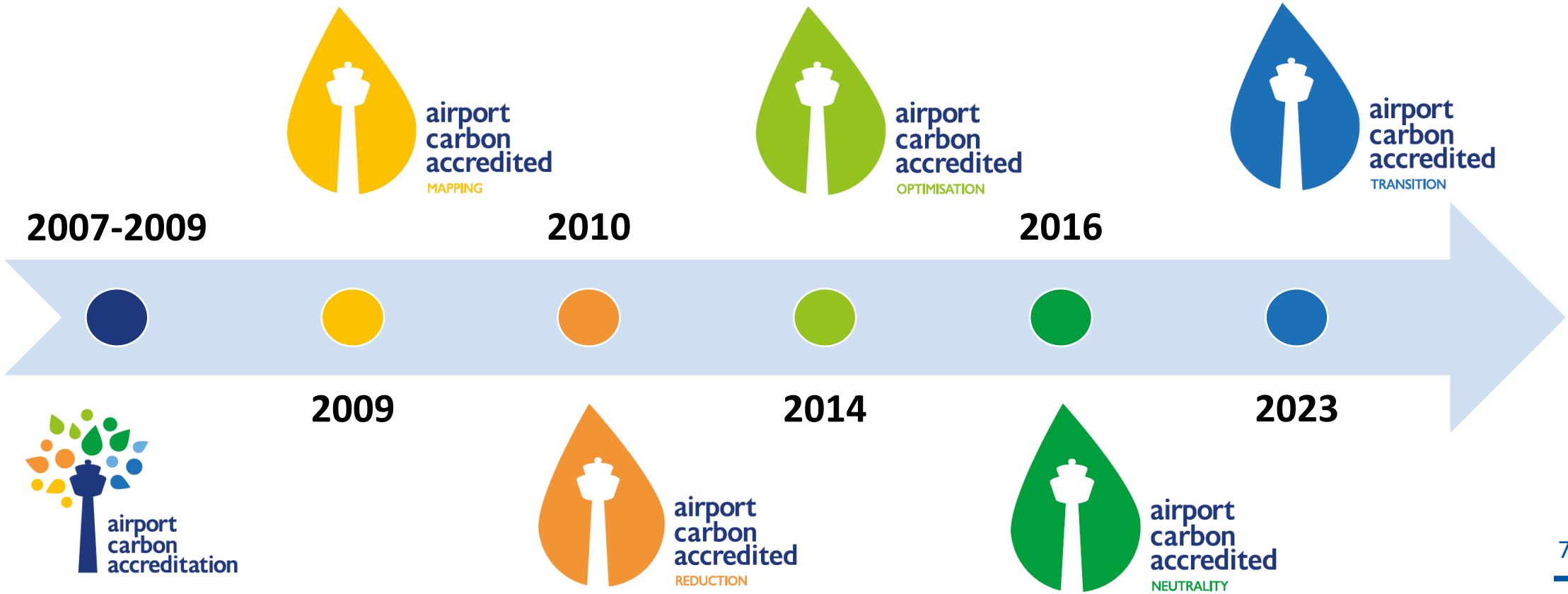
Cultural Heritage

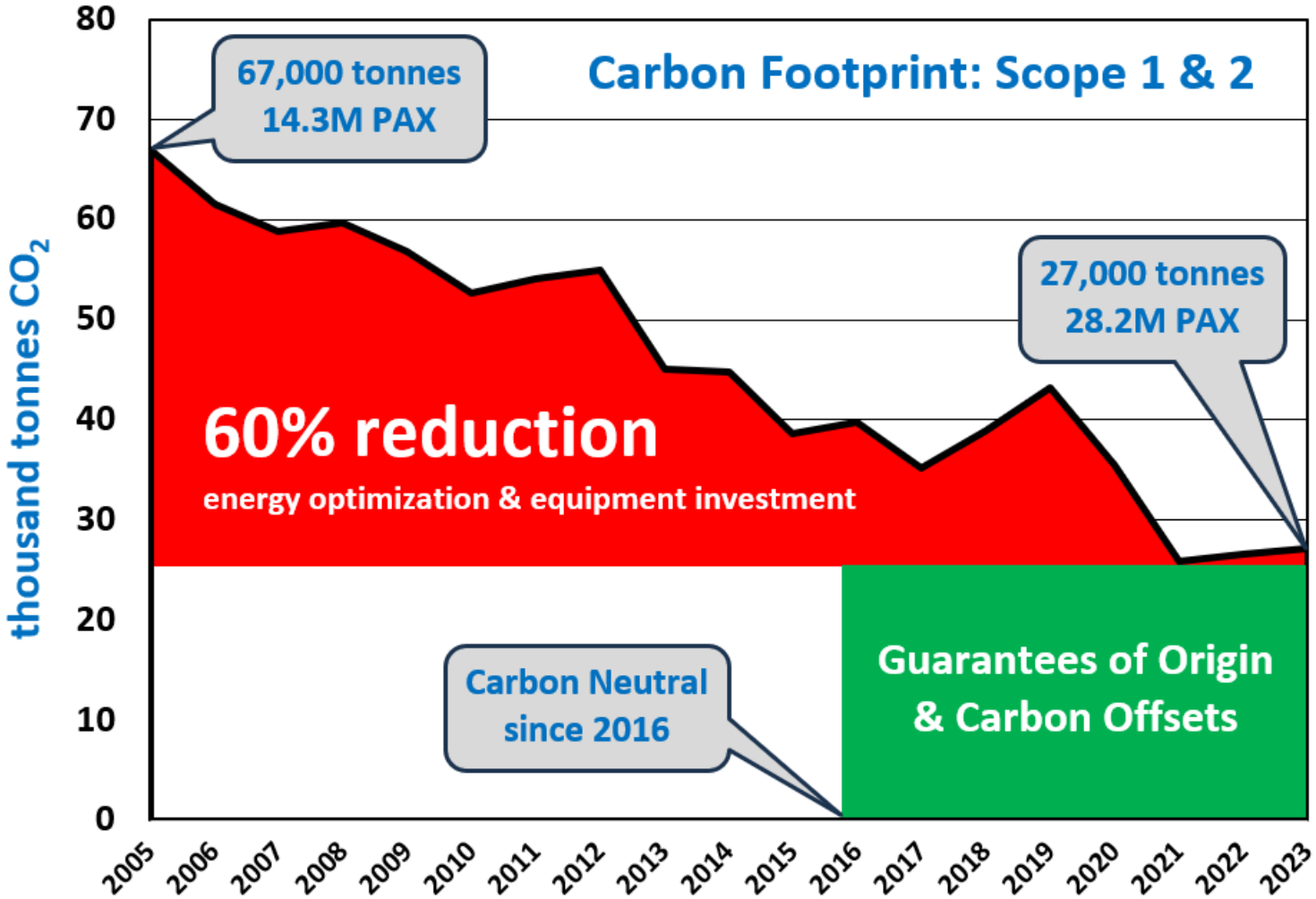
Community Engagement

"The Polluter Pays" & "The Recycler Gets Paid"



AIA's *Airport Carbon Accreditation* Journey




Carbon Footprint: Scope 1 & 2
thousand tonnes CO_2
80
70
60
50
40
30
20
10
0
67,000 tonnes
14.3M PAX
27,000 tonnes
28.2M PAX
60% reduction
energy optimization & equipment investment
Carbon Neutral
since 2016
Guarantees of Origin
& Carbon Offsets
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023

ROUTE 2025, AIA's Net Zero Strategy for Scope 1 & 2 by 2025

Launched in 2019 (pre-pandemic)

- Aiming 25 years ahead of industry

Power all energy needs by green solar production

- Convert heating & transportation needs to electrical

Maximum additionality

- onsite production, built for purpose

Address needs throughout concession (2046)

- accounting for traffic growth

€ Initial cost estimate 100 mio Euro

- Photovoltaics, Heat Pumps & e-mobility

Photovoltaics – Project Identity

Largest self-producer in Greece

Unexploitable land used, with no aeronautical or commercial use

16 MWp PV park (Feb 2023)

45% of current needs

35.5 MWp + 82 MWh Battery (2025)

Remaining 55% plus future needs

Electricity consumed internally on site

Some exchange with the national grid

Battery role

Cover nighttime demand

Minimize energy exchange with the grid

Challenges / Considerations

National Regulatory Framework

- Especially for Battery Energy Storage Systems

Electricity Grid Technical issues

- Grid operators not always willing to connect RES
- Dispersed production stresses electricity grids

Production curtailments

- RES overproduction
- Grid stability

Optimum PV / Battery configuration considering

- Financial issues
- Technical and physical constraints

Additional initiatives & investment

Energy optimization use

through ISO 50001 certified Energy Management System will remain priority

- **Phase-out Natural Gas with electric heat pumps**
- **Internal Combustion Engines vehicles replacement with electric models**
- **Installation of charging network (addressing 3rd Party needs as well)**
- **Alternative fuels (HVO) considered for heavy-duty vehicles and equipment**

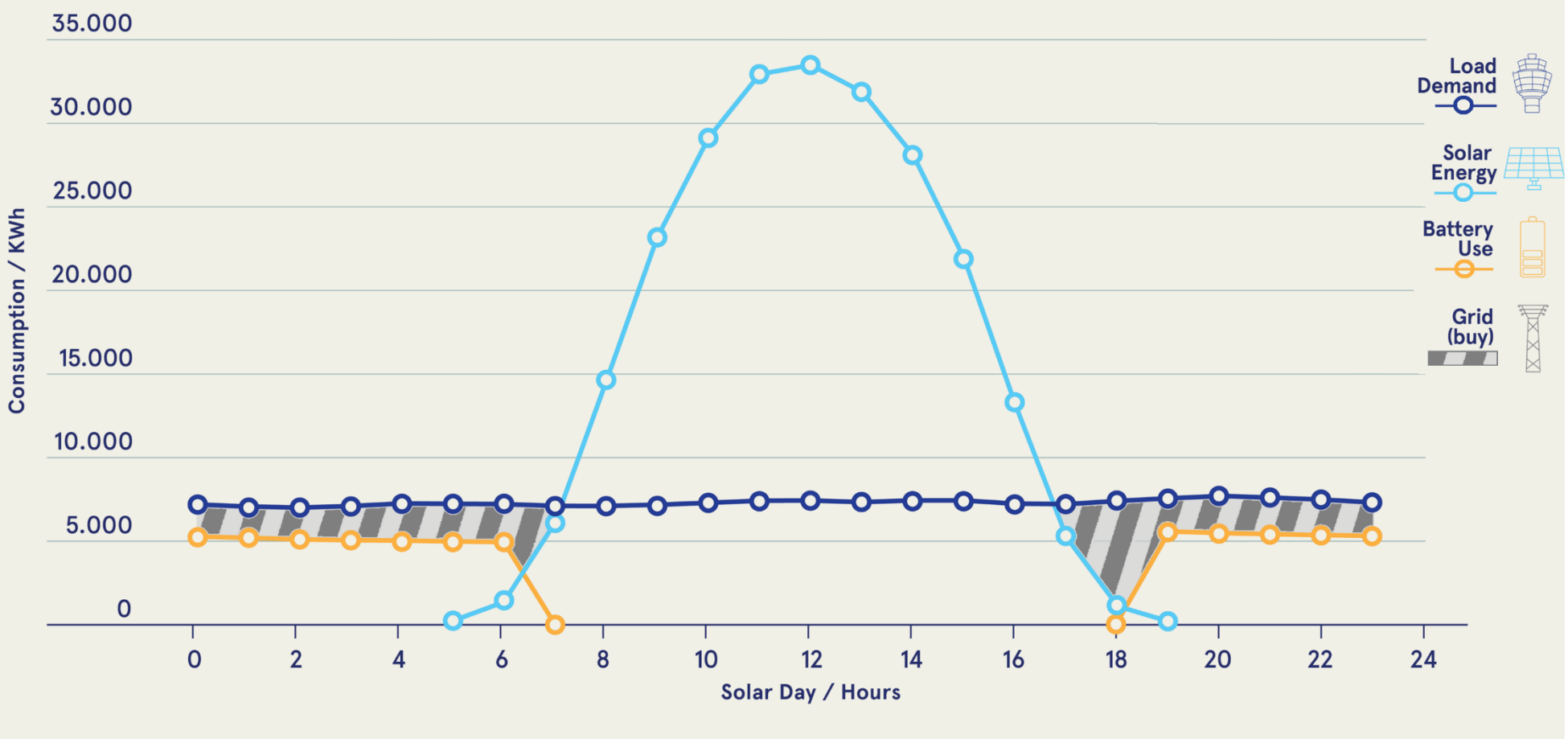
Route 2025 Video

Thank You

ICAO

BACK-UP SLIDES

PV and Battery Energy Storage System



100% independence from the grid (zero energy bought) is not viable

		PV (MW)											
		35	50	70	90	110	130	150	170	190	210	230	250
BESS (MWh)	0	40%	41%	43%	43%	44%	45%	45%	46%	46%	46%	47%	47%
	50	54%	56%	58%	59%	60%	60%	61%	61%	62%	62%	63%	63%
	100	67%	70%	72%	74%	75%	76%	76%	77%	77%	78%	78%	78%
	150	76%	82%	85%	87%	88%	89%	90%	90%	91%	91%	92%	92%
	200	78%	89%	93%	95%	96%	96%	97%	97%	98%	98%	98%	99%
	250	78%	91%	95%	97%	97%	98%	98%	99%	99%	99%	99%	100%
	300	78%	91%	96%	98%	98%	99%	99%	99%	99%	100%	100%	100%
	350	78%	92%	97%	98%	99%	99%	99%	99%	100%	100%	100%	100%
	400	78%	92%	97%	99%	99%	99%	99%	100%	100%	100%	100%	100%
	450	79%	92%	98%	99%	99%	99%	100%	100%	100%	100%	100%	100%
	500	79%	93%	98%	99%	99%	100%	100%	100%	100%	100%	100%	100%
	550	79%	93%	98%	99%	99%	100%	100%	100%	100%	100%	100%	100%
	600	79%	93%	98%	99%	100%	100%	100%	100%	100%	100%	100%	100%
	650	79%	93%	98%	99%	100%	100%	100%	100%	100%	100%	100%	100%
	700	79%	93%	98%	99%	100%	100%	100%	100%	100%	100%	100%	100%
	750	79%	93%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	800	79%	93%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Despite the economic feasibility, there may be no available space to install photovoltaic panels for charging the batteries.