

17-21 JUNE 2019
EU SUSTAINABLE ENERGY WEEK
SHAPING EUROPE'S ENERGY FUTURE



#EUSEW19

Islands as Lighthouses for Europe's Decarbonisation

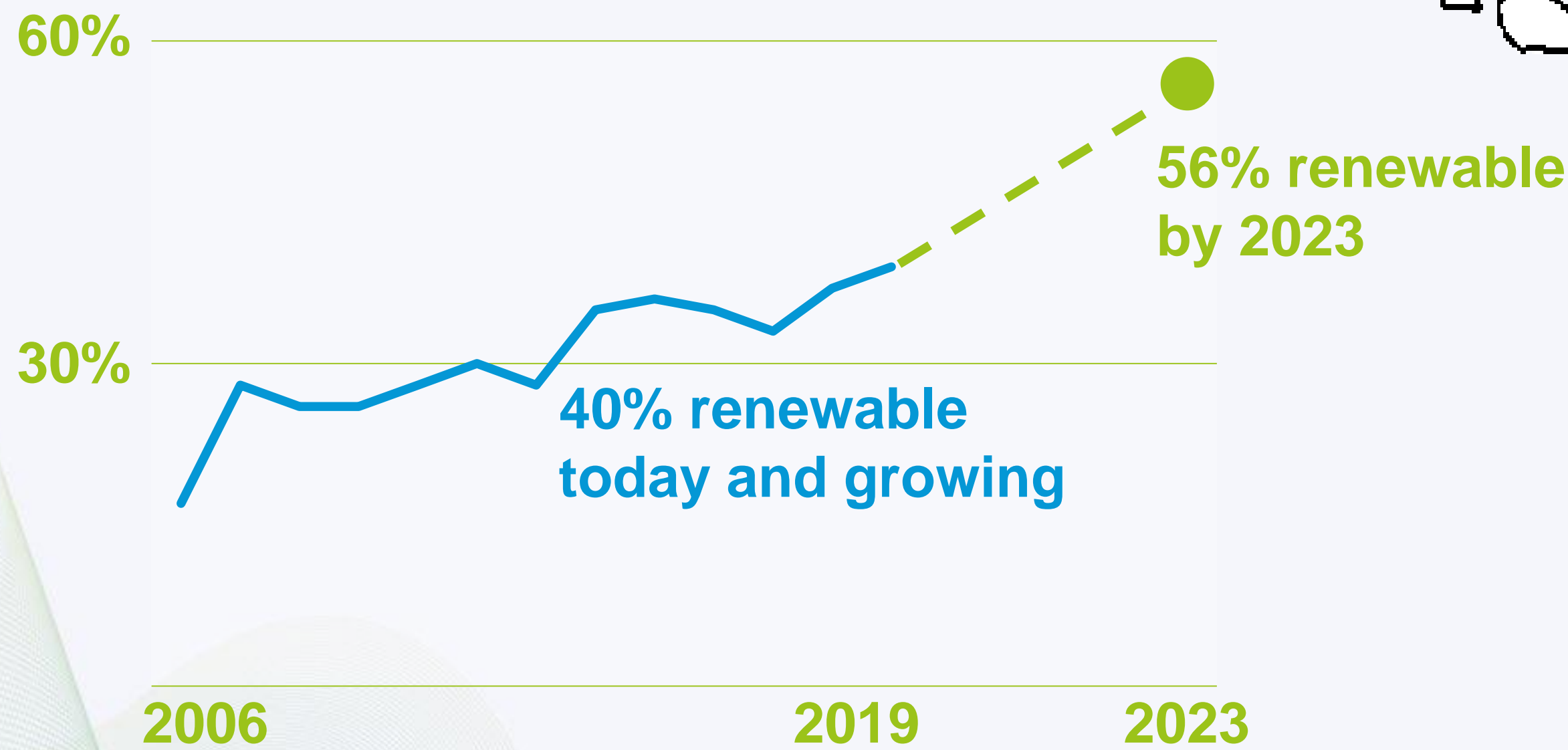
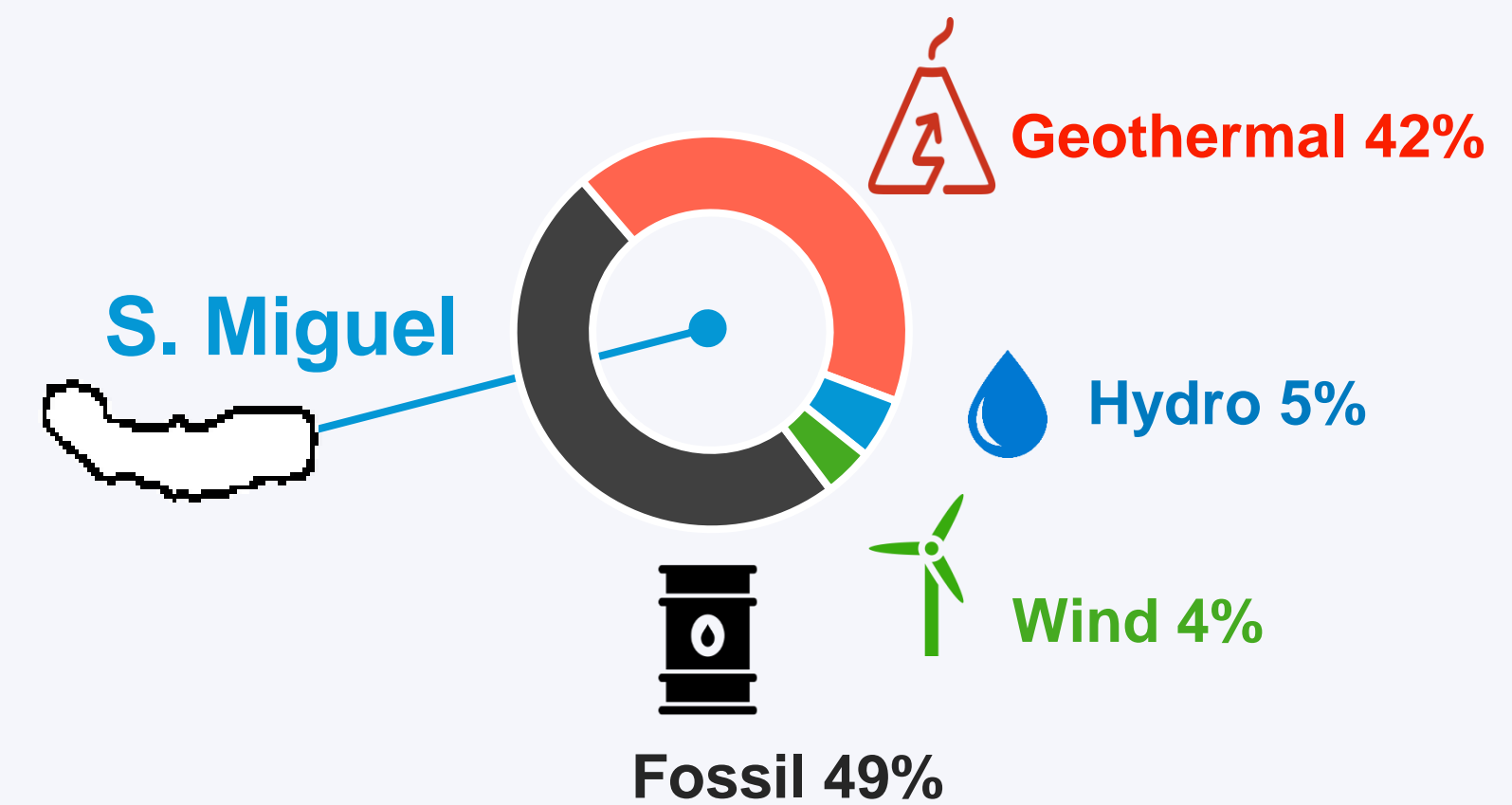
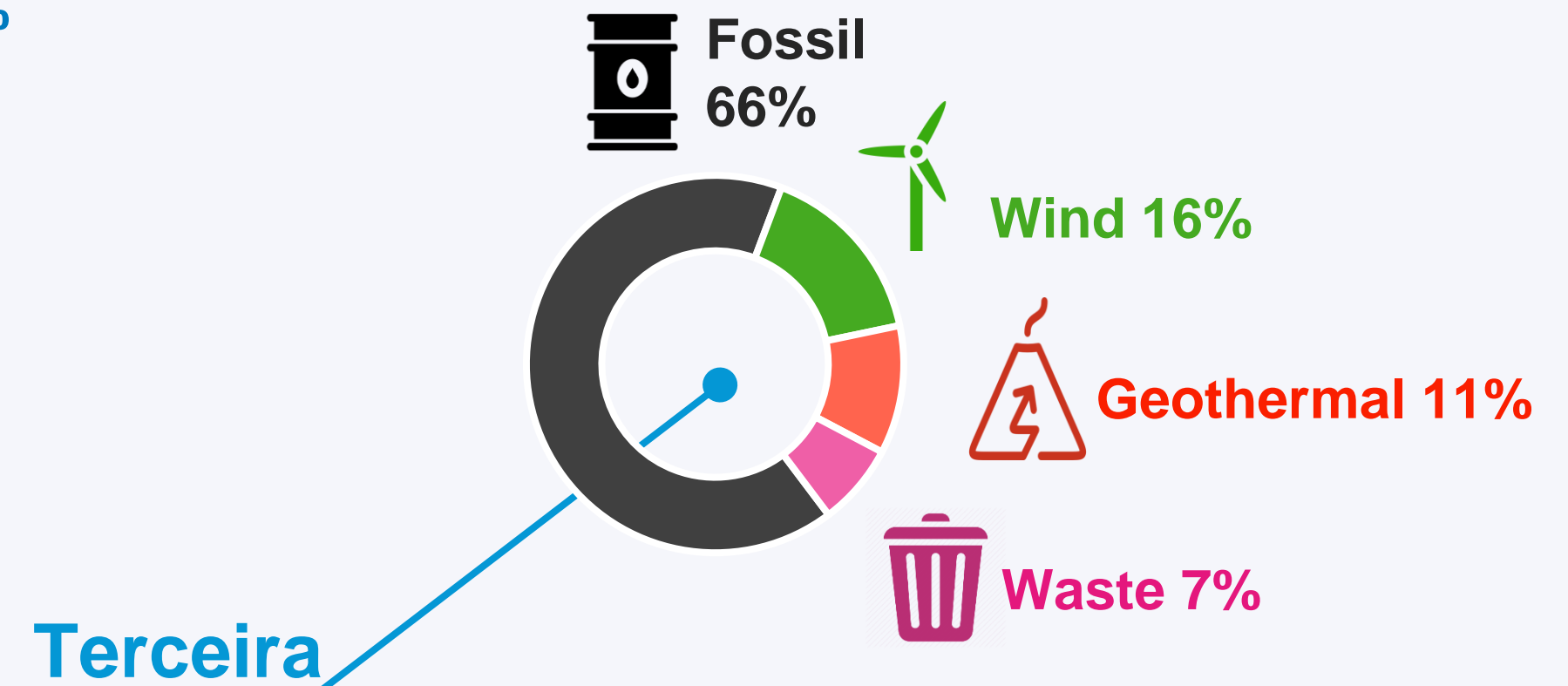
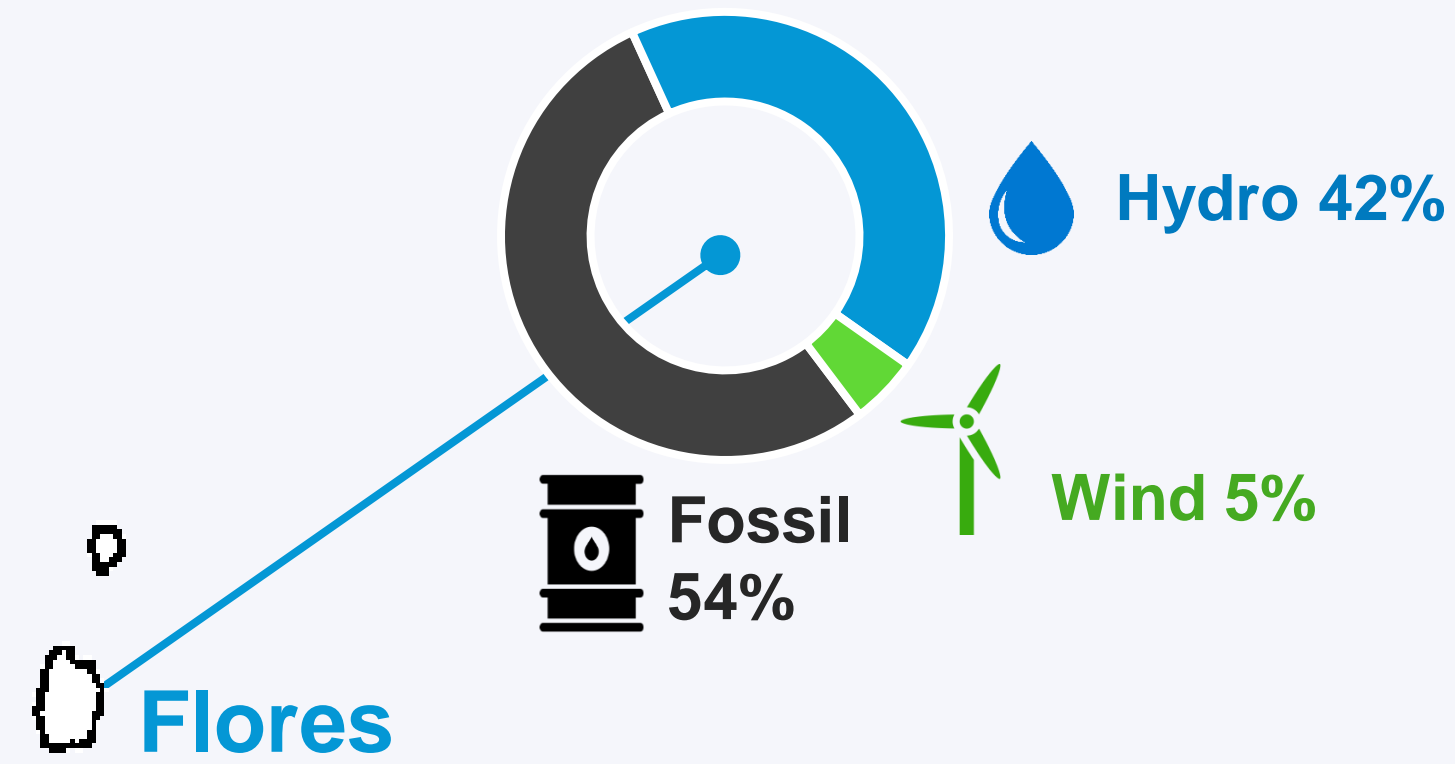
18 June 2019

Azores

- 9 inhabited islands
- ~1500km from Lisbon
- ~250 thousand people
- No grid connection
- Regulated energy market
- ~40% RES penetration



Azores



Azores

Sustainable Corvo

- Most gas boilers replaced by solar systems or heat pumps.
- -50% LPG consumption.



Graciónica

- Renewable energy system combining wind, solar and storage.
- ~65% of renewable electricity production.



Geothermal power

- 3 geothermal power plant
- 26% of total electricity production.

Proenergia

Local financing program that encourages Azoreans to produce their own local clean energy for self-consumption, avoiding the burdensome costs with fuel transports.

	Equipment	Grant	Limit	Grant bonus	Island
Electricity	Photovoltaics	25%	4000€	+10%	Santa Maria
	Wind turbine			+5%	Pico e Faial
	Hydropower			+12%	Graciosa, São Jorge, Flores e Corvo
Heating	Biomass-based				
Storage	Energy-storage systems			Approved projects	
				2017	352
				2018	507
Hot water	Heat pump	35%	4000€		
	Solar termal				
	Biomass-based				

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2030 Azorean Energy Strategy

Clean and sustainable energy,
that respects the planet and
its ecosystems.

Affordable and
leveraging
competitiveness.

Clean, secure, competitive energy for all

Secure and reliable energy,
that is there when needed
and in appropriate form and
quality.

Widespread accessibility,
especially by those in
greater difficulty.

Challenges

- Technical**
 - Lack of practical experience reaching large penetration of renewable electricity;
 - Lagging undersea cable technology to interconnect islands;
 - Lack of small-scale options in some technologies;
- Regulatory**
 - The existing non-liberalised energy market, due to the lack of economies of scale, poses important challenges in terms of regulation as well as perverse incentives;
 - Lack of regulation for end users to provide system/ancillary services to the grid (storage, end-user flexibility, V2G)
- Financing**
 - Difficulty in implementing structural funds under the form of financial instruments in a small, geographically scattered region with an economy strongly focused on SMEs;
- Ownership**
 - Difficulty reaching, ensuring technical services, support and training to a scattered population, especially in smaller islands.

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