

Initiatives and Targets under the Singapore Green Plan 2030

S/n	Initiatives	Targets		
City	in Nature			
a	 City in Nature More green spaces and park connectors Add 1000ha of green spaces, of which 200ha will be new nature parks. Our new nature parks will provide more recreational options (e.g. hiking and birdwatching), and protect nature reserves from urbanisation. Add 160km of park connectors More naturalised parks and urban infrastructure to provide shade, cool the environment, improve air quality, and beautify our city Incorporate natural designs and planting in 140ha of parks and gardens, and restore and enhance 30ha of forest, marine, and coastal habitats Add 80ha of skyrise greenery Have 300km of Nature Ways along our roads 	 2030 targets: Double our annual tree planting rate between 2020 and 2030, to plant 1 million more trees across Singapore Increase nature parks' land area by over 50% from 2020 baseline Every household will be within a 10-minute walk from a park 2035 target: Add 1000ha of green spaces 		
Sust	ainable Living			
а	 A Green Citizenry that Consumes and Wastes Less Encourage water conservation and water efficient practices for households and industries Shower Fittings Replacement under the Climate-Friendly Household Programme Mandatory water efficiency labelling scheme "Reduce, Reuse and Recycle" as a norm for citizens and businesses, with a national strategy to address e-waste, packaging waste and food waste 	 2026 target: Reduce the amount of waste to landfill per capita per day by 20% 2030 targets: Reduce household water consumption to 130 litres per capita per day Reduce the amount of waste to landfill per capita per day by 30% 		
b	 Green Commutes i. Expand our rail network with new stations or lines opening almost every year over the next decade ii. Purchase only cleaner-energy public buses going forward iii. Encourage walking and cycling, by 	 2030 targets: Achieve 75% mass public transport (i.e. rail and bus) modal share Expand rail network from around 230km today to 360km by early 2030 		

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C	 SINGAPORE expanding the cycling network and repurposing roads for active mobility uses where possible iv. Develop new town concepts (e.g. Tengah to have the first car-free HDB town centre) Strengthen Green Efforts in Schools i. Enhance the integration of environmental sustainability in schools, and strengthen the building of informed, responsible and sustainability-conscious mindset and habits in students through the Eco Stewardship Programme ii. Reduce net carbon emissions for the schools sector iii. Start with some of our schools achieving carbon neutrality by 2030, with the rest 	 2030 Targets: Achieve a two-thirds reduction of net carbon emissions from the schools sector At least 20% of schools to be carbon neutral
	to follow thereafter	
Ene	rgy Reset	
a	 Green Energy Promote sustainable fuels for international trade and travel Increase solar deployment in Singapore together with the deployment of energy storage to address solar intermittency, enhance grid resilience, and support the transition towards a greener energy mix Increase efficiency with each new generation of gas-fired power plant to reduce carbon emissions (e.g. adopting new, advanced combined-cycle gas turbines) Green Singapore's electricity supply by tapping on the low-carbon potential of clean electricity imports 	 Play active and important roles in fulfilling two international goals The International Civil Aviation Organisation's aspirational goals of 2% annual fuel efficiency improvement from now to 2050 and carbon neutral growth from 2020 The International Maritime Organisations' target to reduce greenhouse gas (GHG) emissions from international shipping by at least 50% by 2050 compared to 2008 levels, and to phase out such GHG emissions in this century
		 2030 targets: Increase solar energy deployment by five-fold to at least 2 GWp, which can meet around 3% of our 2030 projected electricity demand and generate enough electricity to power more than 350,000 households a year (1.5 GWp by 2025, which can meet around 2% of our 2025







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		 projected electricity demand and generate enough electricity to power more than 260,000 households a year) 200 MW of energy storage systems deployment beyond 2025, which can power more than 16,000 households a day Best-in-class generation technology that meets heat- rate/emissions standards and reduces carbon emissions Diversified electricity supply with clean electricity imports
b	Greener Infrastructure and Buildings	2030 target:
	i. Raise the sustainability standards of our	 Green 80% of Singapore's
	buildings through the Singapore Green	buildings (by Gross Floor
	Building Masterplan, to pave the way for a low-carbon built environment	Area) by 2030
	Raise minimum energy	2021 target: PUB to generate
	performance requirements	sufficient solar energy from their
	 Review the Green Mark scheme 	floating solar panels to power
	Push for the adoption of Super-	100% of Singapore's waterworks.
	Low Energy Buildings (SLEB)Support the development of	2025 targets:
	energy-efficient and cost-effective	Reduce energy consumption
	green technologies	of desalination process from
	ii. Improve energy efficiency of water	current 3.5kWh/m ³ to 2kWh/m ³
	treatment through research and development	 Singapore's first integrated waste and used water
	 Investment in desalination and 	treatment facility to be 100%
	used water treatment technologies	energy self-sufficient (Tuas
	such as electrochemical	Nexus)
	desalination and step-feed	Long-term target: Reduce
	membrane bioreactor iii. Reduce carbon footprint of water	desalination energy further to
	production through adoption of	1kWh/m ³
	renewables (e.g. solar energy)	
	iv. Improve energy and resource efficiency	
с	of used water treatment plants Sustainable Towns and Districts	2030 target: Reduce energy
	i. Under the 10-year HDB Green Towns	consumption in existing HDB
	Programme, we will:	towns by 15%
	Introduce smart LED lighting that can	
	use 60% less energy than normal LED lighting	
	 Double total solar capacity on HDB 	
	rooftops from 220 megawatt-peak	
	(MWp) today to 540 MWp by 2030	
	by increasing number of HDB	
	rooftops with solar panels from 50%	
	to 70% by 2030Pilot the Urban Water Harvesting	

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	 System (UWHS) to recycle rainwater for non-potable uses and help mitigate flood risk by releasing stormwater at a slower rate Pilot test the effectiveness of "Cool Paint" in reducing ambient temperatures Convert top decks of suitable multi- storey carparks into urban farms, community gardens and extensive greenery to increase green cover and enhance liveability Make new HDB towns greener and more sustainable (e.g. Tengah town will have a centralised cooling system) Develop Jurong Lake District as a model sustainable mixed-use district, with district cooling, solar power deployment, and super low-energy buildings 	
d	 Cleaner-energy Vehicles Require all new registrations to be of cleaner-energy models by 2030 Build up the EV charging infrastructure to support the growth of EVs Revise the vehicle tax structure to make it easier to buy and own EVs. 	 2030 targets: All new car registrations will be of cleaner-energy models More than double our national EV charging point targets from 28,000 to 60,000 charging points
Gree	en Economy	
а	 New Investments to be Among the Best-in- Class i. Ensure that new carbon-intensive investments brought into Singapore are among the best-in-class in terms of carbon and/or energy efficiency, for carbon-intensive sectors. ii. Review carbon tax by 2023 	Seek new investments to be among the best-in-class in energy/ carbon efficiency
b	Sustainability as a New Engine for Jobs and Growthi.Green our industries' production processes and energy usage, such as transforming Jurong Island into a sustainable energy and chemicals park, and improving industries' energy efficiencyii.Develop Singapore into a sustainable tourism destination.iii.Develop Singapore as a carbon services hub, with the requisite capabilities and networks across the value chainiv.Develop Singapore as a leading centre for green finance in Asia and globally, to	 2030 targets: Jurong Island to be a sustainable energy and chemicals park Singapore as a sustainable tourism destination Singapore as a leading centre for green finance and services to facilitate Asia's transition to a low-carbon and sustainable future Singapore as a carbon services hub in Asia Singapore as a leading regional centre for developing

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	v. vi. vii.	support a sustainable Singapore and facilitate Asia's transition to a sustainable future Strengthen Singapore as a vibrant location for global and local companies to develop new sustainability solutions for Asia, with R&D as an enabler, in areas such as sustainable packaging, decarbonisation, waste upcycling, urban farming, and water treatment Develop and trial new technologies for carbon capture, utilisation and storage Study the potential of low-carbon hydrogen and other emerging technology pathways for decarbonisation ² . Support local enterprises to adopt sustainability practices/ solutions/ standards, enhance their resource (including energy) efficiency, and capture new business opportunities in sustainability	 new sustainability solutions Groom a strong pool of local enterprises to capture sustainability opportunities
Resi	ilient F	uture	
а		to Sea-level Rise and Enhance Flood lience R&D to better understand sea level rise projections and technology/modelling to manage inland and coastal flood risks holistically Site-specific studies to assess and provide details of coastal adaptation measures to be implemented Sustainable and reliable funding pool for coastal and flood protection	2030 target: Complete formulation of engineering design and implementation plans for coastal adaptation measures at City-East Coast, Northwestern Coast (Lim Chu Kang and Sungei Kadut) and Jurong Island
b	Keep i.	Singapore Cool Deploy sensors to understand urban heat island effect on Singapore and implement UHI mitigation measures	2030 target: To be determined from studies
C	Grow i. ii.	<i>v</i> Local Avail space and infrastructure for agriculture and aquaculture; enhance funding support to incentivise agri-food industry to adopt highly productive, climate-resilient, and resource-efficient farming technologies; and develop a local pipeline of skilled workers for agri-food sector Conduct R&D under the Singapore Food Story R&D Programme to promote	2030 target: Meet 30% of Singapore's nutritional needs through locally produced food

² Please refer to "Green Energy" for low carbon solutions and applications in industry and power generation.

