

CLIMATE ACTION & SUSTAINABILITY



CODE RED
SRI LANKA
**CLIMATE
SUMMIT '24**



The
**Ceylon
Chamber of
Commerce**



ROSHAN RAJADURAL. PhD, DSc.

**HAYLEYS PLANTATIONS SECTOR
KELANI VALLEY, TALAWAKELLE & HORANA PLANTATIONS**

CEYLON TEA INDUSTRY

- **14 DISTRICTS IN ALL 3 ELEVATIONS**

- **Low Grown** : 0–600M AMSL
- **Mid Grown** : 600M - 1,200M AMSL.
- **High Grown**: Above 1,200M AMSL.

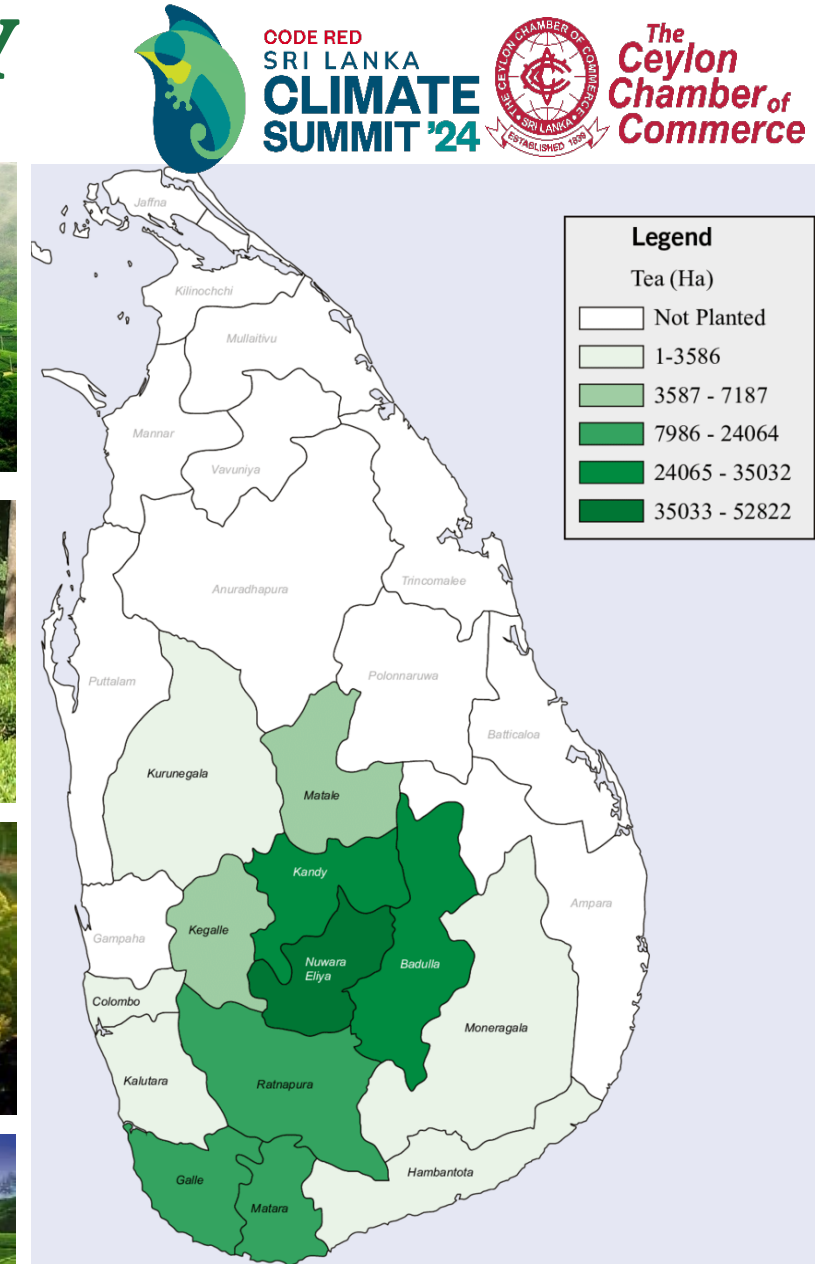
- **7 GEOGRAPHICAL INDICATOR REGIONS**

- Nuwara-Eliya, Uda Pussellawa
- Dimbula ,Uva, Kandy
- Sabaragamuwa, Ruhuna



- **3 PRODUCER SECTORS**

- **1975** Estates Nationalized–**1992** Privatized
- State Management–**27** Estates
- Tea Small Holders (TSH)-**500,000** Operators
- Regional Plantation Companies **20 (RPCs)**–**450** Estates,
- Total custodial care for 1 Million residents, birth to death.



HAYLEYS PLANTATIONS



26,137 Ha
TOTAL EXTENT



18,293 Ha
CULTIVATED EXTENT



1,335
ESTATE STAFF



9,665 Ha
TEA



60
TEA/RUBBER ESTATES



150,000
RESIDENT POPULATION



6,372 Ha
RUBBER



51
FACTORIES



13.5 Mn Kg
TEA



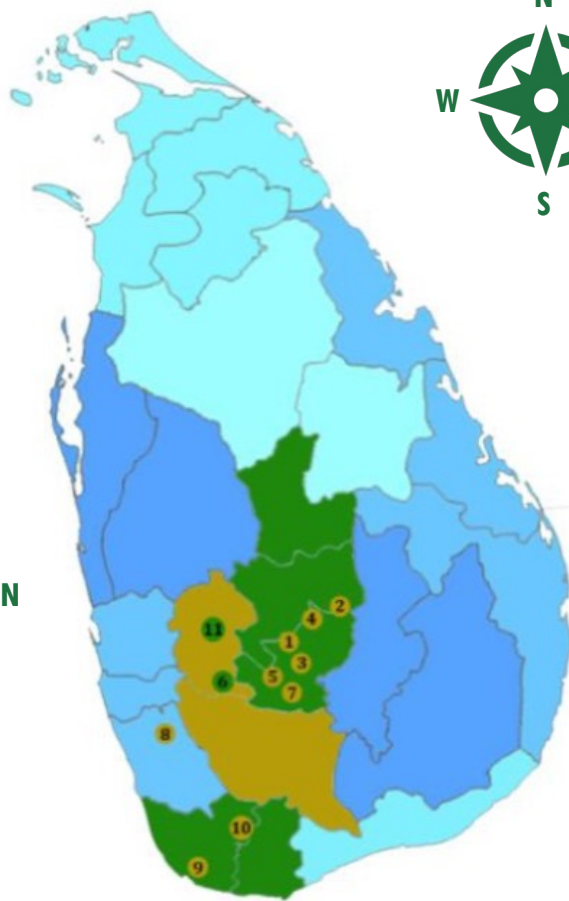
2,256 Ha
CINNAMON & OTHERS



21,862
WORKERS



4.5 Mn Kg
RUBBER



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1 THALAWAKELLE : BEARWELL, LOGI, GREAT WESTERN, MATTAKELLY,
PLAMERSTON, WATTEGODA, HOLYROOD

2 NUWARA ELIYA : PEDRO, NUWARA ELIYA, GLASSAUGH, UDA RADELLA,
EDINBURGH, OLIPHANT

3 LINDULA : BAMBRACKELLY, EILDONHALL, TILlicOUNTRY

4 NANU OYA : CALSAY, CLARENDON, DESSFORD, RADELLA,
SOMERSET

5 HATTON/DICKOYA : INGESTRE, FORDYCE, ANNFIELD, TILLYRIE, INVERY
ROBGIL, BATTALGALLA, BLINKBONNIE

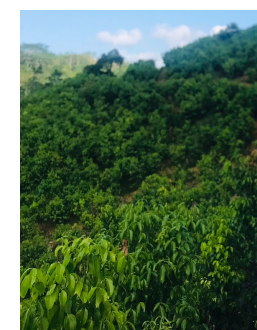
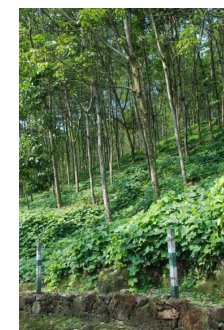
6 YATIYANTOTA : DEWALAKANDE, PANAWATTE, KITULGALA, HALGOLLE
KELENI(T), KIRIPORUWA, LAVANT, GANEPALLA

7 UPCOT : ALTON, FAIRLAWN, GOURAVILLA, MAHANILU,
STOCKHOLM

8 HORANA : MILLAKANDE (T), HALWATURA, HILLSTREAM,
KOBOWELLA, NEUCHATEL, MIRISHENA,
FROCESTER

9 GALLE : MORAGALLA

10 DENIYAYA : DENIYAYA, INDOLA, HANDFORD, KIRUWANAGANGA



HAYLEYS PLANTATIONS



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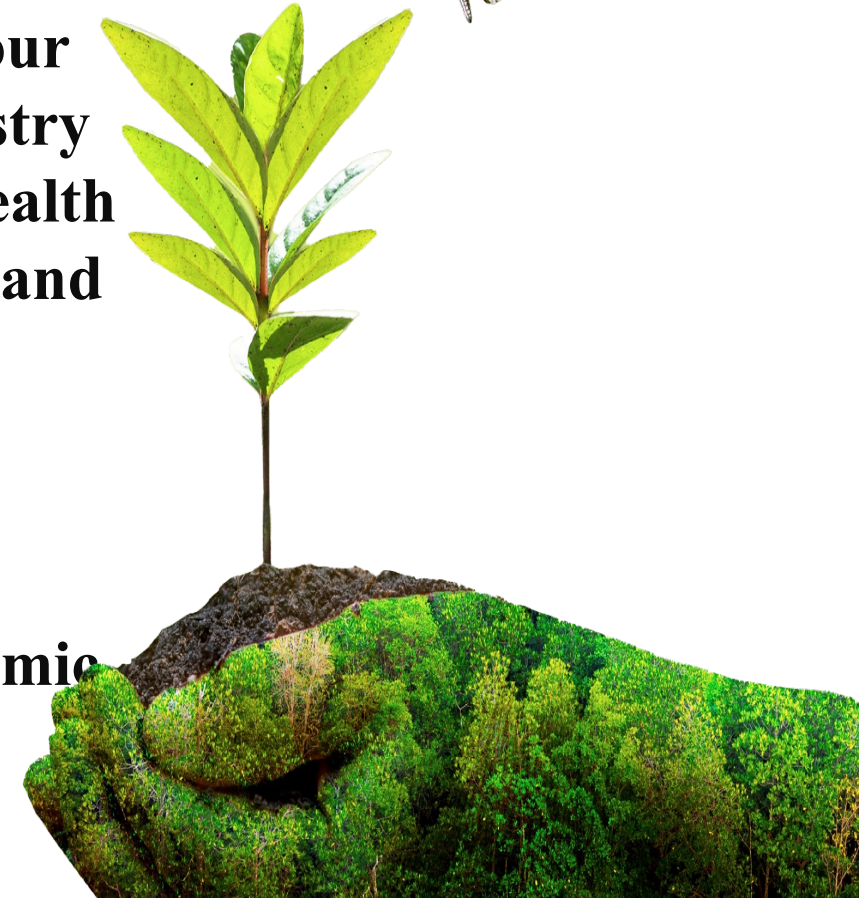


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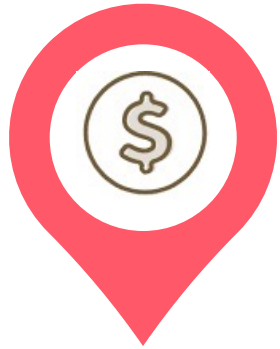
At Hayleys Plantations, **sustainability** is at the core of our business strategy. We are committed to leading the industry with innovative practices that ensure the longevity and health of our natural resources, while driving economic growth and uplifting our communities.

Sustainability Strategy

Our strategy is built on a holistic approach, encompassing **environmental stewardship, social responsibility, and economic vitality**. We strive to balance these three pillars to create a sustainable & a resilient business model.



SUSTAINABILITY APPROACH



Profit

Create economic growth & equitable value sharing

- Healthy financial growth
- Strategic value addition & innovation
- Productive capital management



Planet

Minimize total environment footprint of business operations

- Ensure healthy, aquatic and terrestrial ecosystem
- Responsible resource consumption
- Expedient climate action



People

Unlock values by linking social & business results

- Enhance Quality of Life & Decent Work
- Ensure the right competency level of workers
- Equitable Value Sharing among value chain players
- Ensure health & well-being, safety & security

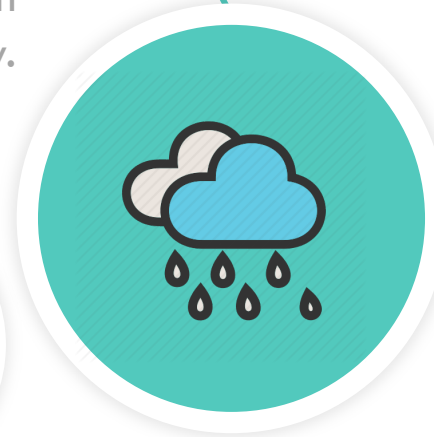
IMPACT OF CLIMATE CHANGE – PLANTATIONS



02
Variation of Rainfall
Reduction of rainfall by
100 mm per month
reducing productivity.



01
Temperature Increase
Yield projections for year 2050 given
by crop model based on synthetic
scenarios show increasing
temperatures likely to reduce yields.



03
Increase in Ambient CO₂
Increase in ambient CO₂
concentration from current
level (around 370 ppm) to
600 ppm, increasing Tea
yields.



04
Ecosystem Degradation
Plantation crops highly
dependent on ecosystem
services, soil health &
microclimatic conditions.

CLIMATE ACTION STRATEGIES

Our efforts are to reduce or prevent emission of GHGs at the source & efforts to remove existing GHG emissions from atmosphere. In a business context, overall strategy seeks to reduce business related emissions.

Adaptation

Create Value

Mitigation

Climate change adaptation as main focus in our business context to moderate harm to business operations & activities.

Value creation to ensure availability of business policies & strategies to transform low carbon value chain under climate friendly business model.



ADAPTATION

- Use of **hardy cultivars** that are resistant to drought, pests, diseases & adaptable to changing climate.
- Improvement & implementation of **soil conservation** measures to **arrest soil erosion** & addition of **organic matter** content to enhance the soil's **physical & chemical** properties.
- Proper **shade management** to provide a better environment & thus minimize stress conditions
- Expansion of **multi-cropping, high density agro systems** to reduce the risks of mono-cropping.



SOIL & WATER CONSERVATION



BIOLOGICAL SOIL CONSERVATION

- Encouraging soil micro organisms as primary driving force in nutrient cycles.
- Sloping Agricultural Land Technology, Mix Cropping, Agro Forestry.
- Planting of Vetiver in bank edges & upper banks of drains, ground cover & creeping cover.
- Planting of grass in vacant patches.
- Planting of shade trees to give protection & enrich soil.
- Establishing wind belts to slow down & filter wind velocity.



PHYSICAL SOIL CONSERVATION SYSTEM

- Terracing, Bunds.
- Desilting lateral drains & leader drains.
- Periodic testing of soil samples for Carbon, pH & nutrient levels.



WATER CONSERVATION

- Protecting Water Bodies in Estates – River, Water Falls, Streams, Ponds etc.
- Water Retention System- Rain Water Harvesting.
- The Chemical Free Buffer Zones.
- Protecting Drinking Water Sources.
- Periodic Water Testing.
- Riverine Forestry.



SOIL CONSERVATION & SUSTAINABLE AGRICULTURE



- **Regenerative Techniques:** Implementing regenerative agricultural methods as cover cropping & use of organic compost to rejuvenate soil health & enhance biodiversity.
- **Soil Health Monitoring:** Employing advanced technology to monitor soil parameters ensuring our practices are based on precise, real time data to optimize soil management & crop health.
- **Sustainable Crop Management:** Reducing chemical inputs through integrated pest management and organic fertilization, promoting a healthy ecosystem and ensuring the safety of our agricultural products.
- **Innovative Agricultural Technologies:** Adopting water conservation techniques & integrating agroforestry practices to improve biodiversity, soil health, & climate resilience.
- **Training & Empowerment:** Providing continuous education & training to our agricultural workforce, equipping them with the skills to implement & sustain these advanced agricultural practices.
- **Commitment to Future:** Pioneering the expansion of organic & integrated farming practices to lead the agricultural sector towards a more sustainable & environmentally friendly future.



MITIGATION

- Converted all Diesel Boilers to Biomass Boilers.
- Sustainable Fuelwood planting
- Solar & Hydro electricity generation
- Reforestation & Biodiversity enhancement



REGENERATIVE AGRICULTURE “BUY BACK” OF WEEDS



REGENERATIVE AGRICULTURE COMPOSTING



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- එම වල් පැළෑටි නැවත මිලදී ගැනීම මගින් ඔබේ ආදායම වැඩි වීම.
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REJUVENATIVE AGRICULTURE - SOIL FERTILITY



SOIL AUGERS FOR EACH
DIVISION IN THE
COMPANY



ENVIRONMENT CONSERVATION



ECOSYSTEM CONSERVATION, RESTORATION & SUSTAINABLE FORESTRY

- Conservation areas over 5000 feet, tree species that support biodiversity, bird and animal life.
- Contribute towards CO₂ sequestration significantly.
- Commercial Forestry, Timber & Fuel Wood.
- Social Forestry, Firewood for community usage.
- Shade/Wind belt planting, conserve soil moisture, recycle nutrients, addition of OM.
- Afforestation & Reforestation with native/ indigenous species.



BIODIVERSITY CONSERVATION

- Conform to Good Agricultural Practices (**GAP**) & International Standards & Certification on Flora & Fauna (**RA, FSC, GAP, ETP, IUCN, SLBDF**).
- Protect the natural & virgin jungle, wild life, flora & fauna.
- Facilitate research & studies, training & awareness to stakeholder communities.
- Biodiversity assessments with **IUCN**.
- Active member of the **BIODIVERSITY** Forum SRI LANKA (**SLBDF**).



BIODIVERSITY CONSERVATION



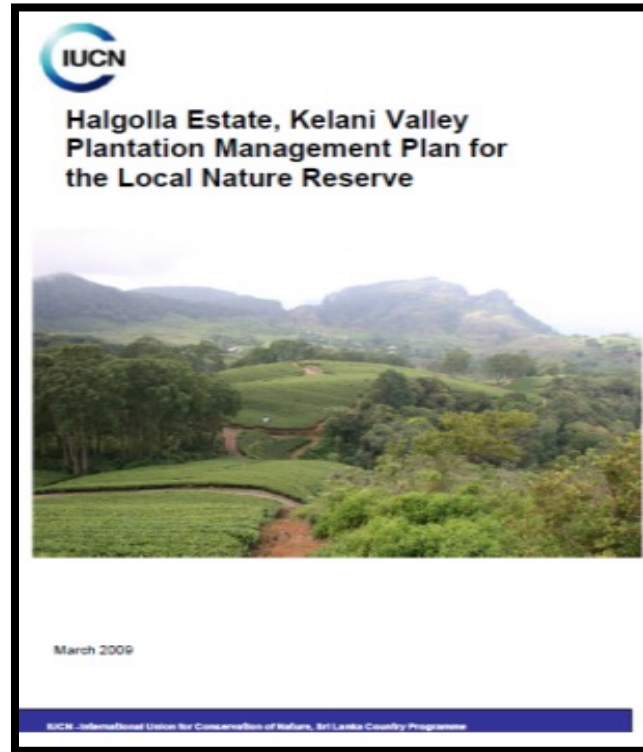
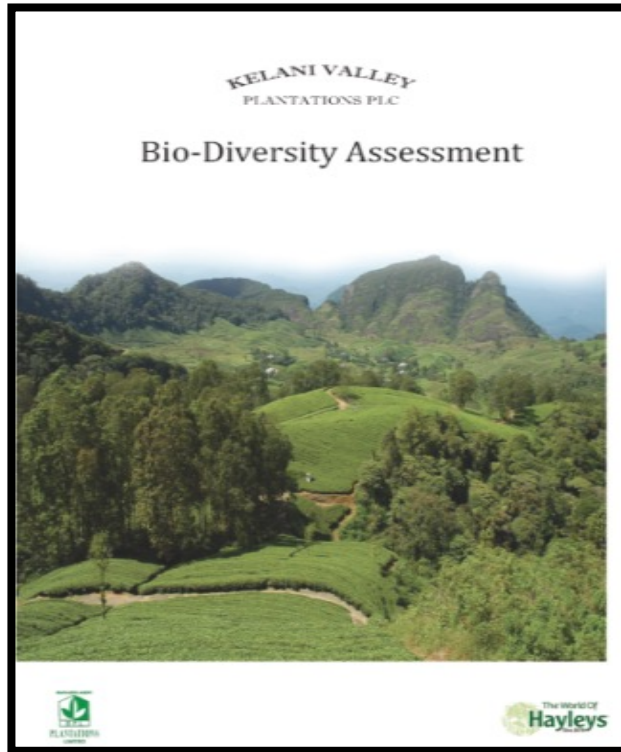
- **Holistic Conservation Efforts:** We actively enhance biodiversity through habitat restoration, creating biodiversity corridors, & managing protective zones to support native species & maintain ecological balance.
- **Protecting Pollinators:** Our agriculture practices prioritize the health of pollinators by minimizing the use of harmful pesticides & fostering habitats, crucial for maintaining biodiversity & improving crop yields.
- **Sustainable Practices:** We integrate sustainable forestry practices & agroforestry, to enhance ecosystem services like pollination & nutrient cycling, contributing to a resilient agricultural ecosystem.
- **Community & Technology Engagement:** In collaboration with local communities & leveraging technology, we monitor & evolve our biodiversity strategies, ensuring effective conservation & community involvement in safeguarding our natural heritage.



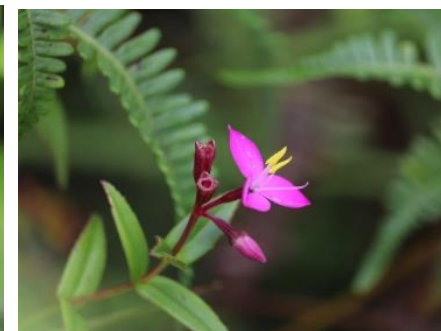
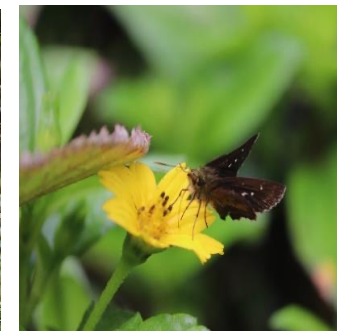
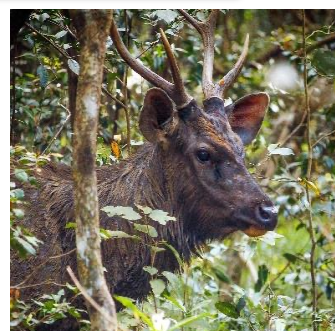
BIO DIVERSITY CONSERVATION & ENRICHMENT



A comprehensive survey of Flora, Fauna & Watersheds within our boundaries



- Inventory of flora and fauna in each plantation
- Identification of conservation status of species
- Identification of different ecosystems and habitats in each plantation
- Identification of biodiversity rich plantation
- Preparing management plan for high priority conservation areas



WATER & WASTE MANAGEMENT



- **Water Conservation:** Implementing state of the art water management techniques as rainwater harvesting & precision water conservation systems to reduce water usage & preserve local water resources.
- **Waste Reduction & Recycling:** Adopting a zero waste philosophy, we focus on reducing, reusing, & recycling across all operations. Organic waste is transformed into compost, contributing to soil health & reducing chemical use.
- **Pollution Control:** We employ strict pollution control measures to prevent run off & protect water quality, ensuring that our agriculture practices are environmentally responsible.
- **Engagement & Education:** Through community education programs, we promote sustainable water & waste practices, fostering environmental stewardship within local communities & enhancing the sustainability of our operations.



CREATE VALUE



- Committed become “NetZero” by 2050 through the approach of “Science Based Target Initiative”.
- Adopted to Low Carbon business model, following “UN Climate Neutral Now” approach of Measure, Reduce and Compensate.
- Investment on de-carbonizing to unlock new values & opportunities throughout the value chain.

**CLIMATE
NEUTRAL
NOW**



OUR JOURNEY TO NETZERO



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Mini-hydro plants
commissioned



Transformed all fossil fuel
boilers to Firewood boilers

One Million Tree Planting
Programme with Sustainable
Fuelwood & Timber planting



First Solar Rooftops
in Tea factory

**CLIMATE
NEUTRAL
NOW**



Committed to “UN Climate
Neutral Now” initiative

2003

2011

2012

2017

2018



2021



2020



SCIENCE
BASED
TARGETS

2019

Starting of Kirulu Project, Climate Neutral
Status of “UN Climate Neutral Now
Initiative” & Science Based Target verified &
approved

“One Million Trees” Planting
project with Rotary International
& Rotary Sri Lanka

Started “Ecosystem Restoration Project”
& Committed to ‘Science Based Targets’
initiative



2022

Feasibility study conducted for Low
head, Eco friendly hydropower unit



2023

Biochar Project experiment
with Waste Heat recovery
process

SCIENCE BASED APPROACH to CLIMATE ACTION, NATURAL CAPITAL MANAGEMENT



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- **Data Driven Insight:** We harness advanced environmental data & analytics to guide our resource management decisions, optimizing soil health, water use, & biodiversity conservation.
- **Technological Integration:** Employing remote sensing & GIS mapping, our approach enhances precision in agriculture practices & land use planning, ensuring efficient & sustainable use of natural resources.
- **Collaborative Research:** In partnership with academic institutions, research institute & environmental organizations, we innovate & refine our practices, staying aligned with the latest scientific research & sustainability standards.
- **Adaptive Management:** Our dynamic management strategies are regularly updated based on real time data and ongoing research, enabling us to respond effectively to environmental changes & challenges.





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50.4% by FY2029/30
2018/19 base year

Scope

1

50.4% by FY2029/30
2018/19 base year

Scope

2

34.2% by FY2030/31
2018/19 base year

Scope

3

TALAWAKELLE 1ST SCIENCE BASED TARGET APPROVED PLANTATION COMPANY IN THE WORLD



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION



COMMIT

Submit a letter establishing
your intent to set a science-
based target



DEVELOP

Work on an emissions
reduction target in line with
the SBTi's criteria



SUBMIT

Present your target to the
SBTi for official validation



COMMUNICATE

Announce your target and
inform your stakeholders



DISCLOSE

Report company-wide
emissions and progress
against targets on an
annual basis

SHAPING A SUSTAINABLE FUTURE



- **Long-Term Commitment:** Hayleys Plantations Sector remains dedicated to advancing our sustainability agenda. We are committed to continuous improvement in our environmental, social, and economic practices to meet the 2030 Sustainability Goals."
- **Innovation and Expansion:** We will continue to innovate and expand our use of green technologies and sustainable agriculture practices. This includes further development of renewable energy projects and expanding our water conservation systems."
- **Community Engagement:** Strengthening community ties remains a priority. We will enhance our educational and developmental programs to uplift local communities, focusing on health, education, and economic empowerment.
- **Global and Local Goals:** Aligning with global sustainability trends, we are setting ambitious targets to reduce our carbon footprint, conserve biodiversity, and manage natural resources responsibly, while contributing positively to the local economies.





STILL THE
WORLD'S
FINEST TEA

