

# 同心协力零碳雄心:成员公司范围三减排实践

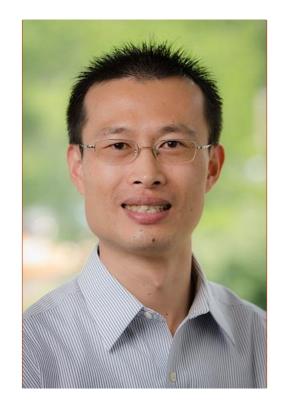
**Together to Reduce GHG Emissions** 

卢罡 | 亚太区安全健康环保及可持续发展总监 | 阿斯利康

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- 背景:本科毕业于上海大学工业工程专业,后陆续取得 上海交通大学工业工程硕士及香港大学国际工商管理硕 士学位。拥有26年跨国企业安全健康环保的管理经验, 曾就职于通用汽车、英特尔、通用电气,担任相关管理 职责,目前负责阿斯利康在亚太区所有生产工厂的安全 健康环保及可持续发展的管理工作。







与我们的合作伙伴和供应商同心 协力,减少温室气体排放 Engaging with our partners & suppliers to reduce greenhouse gas emissions

引领可持续发展 Leading in Sustainability



#### 着眼未来

### 居安思危

### 携手行动

### Taking action to drive sustainability is fundamental - to build a healthy future for **people**, society, and the planet



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### 立足之本 - 现在和未来 The Licenses to Operate - Now & Future



The Bottom Line and Basics to Keep Business Running



A Higher Bar and The Differentiators to Enable Long Term Success – The Potential Bottom Line and Basics in the future

### 立足之本 - 现在和未来 The Licenses to Operate - Now & Future





# 阿斯利康2022年度全球亮点 AstraZeneca 2022 global highlights



#### \$44.4bn

198

launches

产品上市

successful market

Total Revenue (incl. COVID-19 medicines) 总营收 +25%

Total Revenue growth **营收增长** 

#### \$9.8bn

invested in our science 研发投入

83,500

employees

员工总数

**179** projects in development pipeline 项目梯队

#### 59.3% reduction in Scope 1 and 2 greenhouse

gas emissions since 2015

碳减排

+44m

people reached

to Healthcare

programmes

医疗保障

through our Access

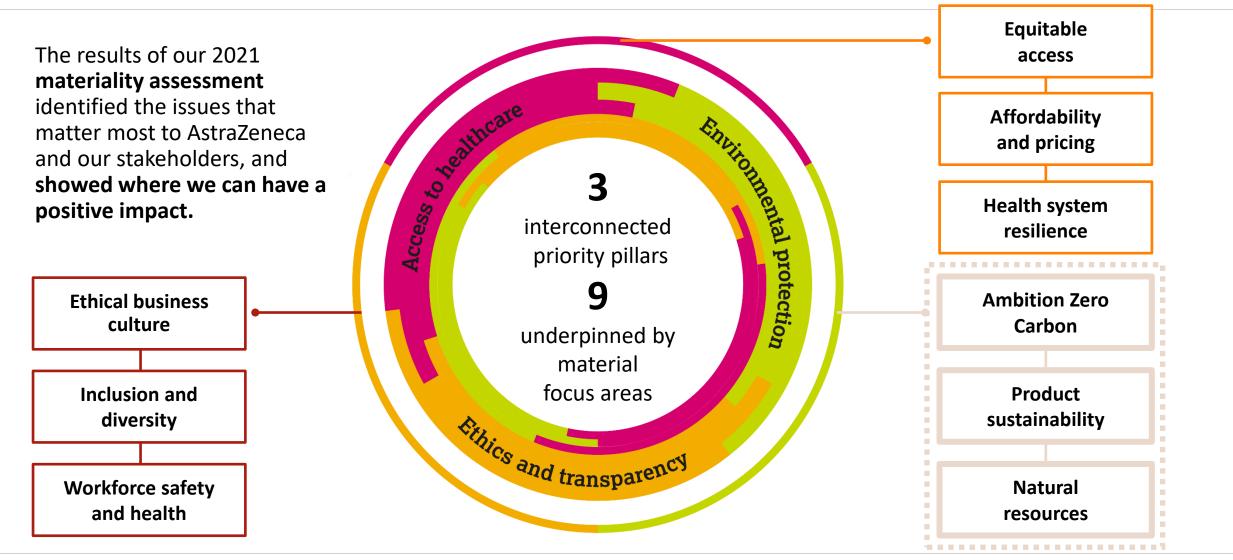
#### 34

regulatory approvals and authorisations in major markets 市场准入

# 我们可持续发展中相互关联的核心领域和重点聚焦



**Our interconnected pillars and focus areas** 



### 基于科学的零碳雄心 Ambition Zero Carbon

Ambitious science-based decarbonization strategy, accelerating our progress towards <u>net zero</u> with long term, published goals

From 2026, we will have reduced our Scope 1 and 2 GHG emissions by 98%, by:

- **RE** 100 Using 100% renewable energy for heat and power
- **EV** 100 Maximising transition to an electric vehicle fleet
- **EP** 100 Doubling energy productivity
- Reducing and capturing F-gas emissions at our sites

By 2030, we aim to halve our entire value chain footprint –Scope 3 – on the way to becoming science-based net zero by 2045 at the latest, by:

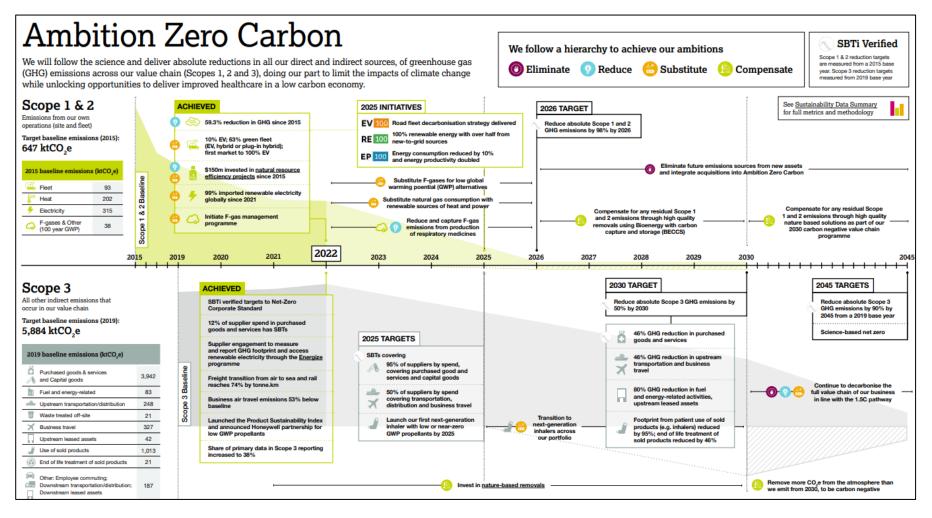
- 95% of key suppliers and partners having science-based targets by the end of 2025
- Transitioning to next-generation respiratory products with low or nearzero climate impact propellants
- 'Designing in' sustainability across product lifecycles and embedding net zero into cost of goods





# 净零碳排放之路的公开透明报告 – 零碳路线图

#### **Transparent reporting on progress towards Net Zero**



AstraZeneca Sustainability Report 2022 https://www.astrazeneca.com/content/dam/az/Sustainability/2023/pdf/Sustainability Report 2022.pdf



#### AstraZeneca's Supplier Expectations for sustainability engagement



# 不断提升的外部要求

#### **Requirements are changing, underpinning our goals**

- Growing requirements for transparency & traceability up the supply chain Tier 2+
- E.g. human rights, deforestation, carbon emissions transparency



EU Corporate Sustainability Due Diligence Directive



Supply Chain Due Diligence Act



Climate Corporate Accountability Act



Net Zero Supplier Roadmap



EU Deforestation-free products Regulation



Federal Supplier Climate Risks and Resilience Rule



Transparency Act



Climate focussed, circular supply chains

### 可持续市场倡议 & 制药业供应链倡议

SMI Health Systems Task Force common standards & PSCI decarbonisation model give direction & learning support for suppliers



### Sustainable Markets Initiative





SMI Whitepaper: <u>https://a.storyblok.com/f/109506/x/c8d17852a1/smi-hstf-supply-chains-whitepaper.pdf</u> PSCI Decarbonisation Maturity Model: <u>https://pscinitiative.org/downloadResourceFile?resource=1845</u>









For Nature, People & Planet

- The SMI Health Systems Taskforce (TF) was launched at COP26 in Glasgow, at the request of His Majesty King Charles III and is championed by AstraZeneca CEO, Pascal Soriot.
- The TF brings together CEOs or equivalents from global biopharma companies, healthcare organisations, multilateral and policy institutions and academia.
- Collectively, the group aims to accelerate the delivery of net zero, patient-centric healthcare.

SMI China Council is being established with support of President Xi and His Majesty King Charles III.

This will include CEOs of Chinese companies (mainly SOEs) cross-sector with the aim to collaborate with the SMI

global TFs to:

- ✓ Accelerate solutions to decarbonize supply chains
- ✓ Promote and scale cooperation
- ✓ Deliver tangible actions to transition to a sustainable future

Opportunity to collaborate and accelerate planned pilots/initiatives in China (e.g., clean power-purchase agreement, clean heat pilots, digital health)







**Sustainable Sourcing – a change process** 





Saving our planet is now a communications challenge. We know what to do, we just need to act

Sir David Attenborough

# 让我们一起行动起来 – 共同协作的机会

**Actions to Start – opportunities for collaborations** 



PPA - Mid-to-Long Term
 Framework Agreement



- Heat Pumps
- Electrification
- Renewable Natural Gas (Bio Methane)



- Low GWP Refrigerant
- Leakage Detection
  System
- Capture & Recycle
  Equipment



• Alternative Agent Vs. Solvent such as Ethanol







Green Treasure Hunt 绿色寻宝活动 – 能源、水、废弃物审计

# 通过共同的努力来推动转变 – 全球协作的机会

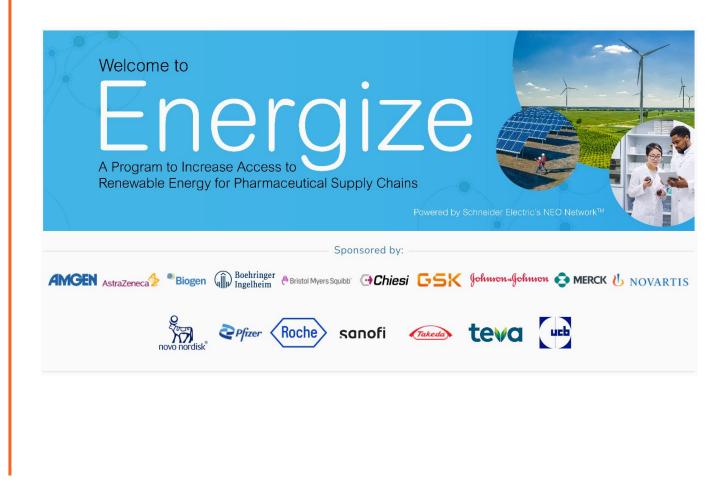
**Embedding change through collaboration & initiatives** 

#### Activate Program



#### **Founding Members**

AstraZeneca | Bristol Myers Squibb | GSK | Johnson & Johnson | Pfizer





- 1. define your materiality – what aspects of sustainability should you be focussing on (明确重 点)
- set a strategy to address those aspects (制定策略) 2.
- 3. make a company commitment and make it public (公开承诺)
- mobilise <u>all</u> your employees for action (全体动员) 4.
- 5. engage <u>all</u> of your suppliers – Tier 1, then beyond (供应商推动)
- deliver against the goals for sustainable business growth (用达标来助力可持续的业务发展) 6.





#### **Our message to AstraZeneca's partners & suppliers – take action now**



### Sourcing Green Power in China Opportunity to join SMI<sup>1</sup> Power Purchase Agreement project led by AstraZeneca

### 加入可持续发展倡议行动项目 – 在中国共同采购绿色电力





### 应对挑战 – 可持续发展倡议健康系统工作组 中国绿色电力采购项目

The SMI Health Systems Task Force has launched a green PPA project in China to tackle the renewable electricity sourcing challenge.

### Why is it important?



Healthcare GHG emissions coming from electricity, with Asia being a key region for pharma manufacturing (30-60%) Green Power initiative enables access (for suppliers) to green power through PPAs in India and China

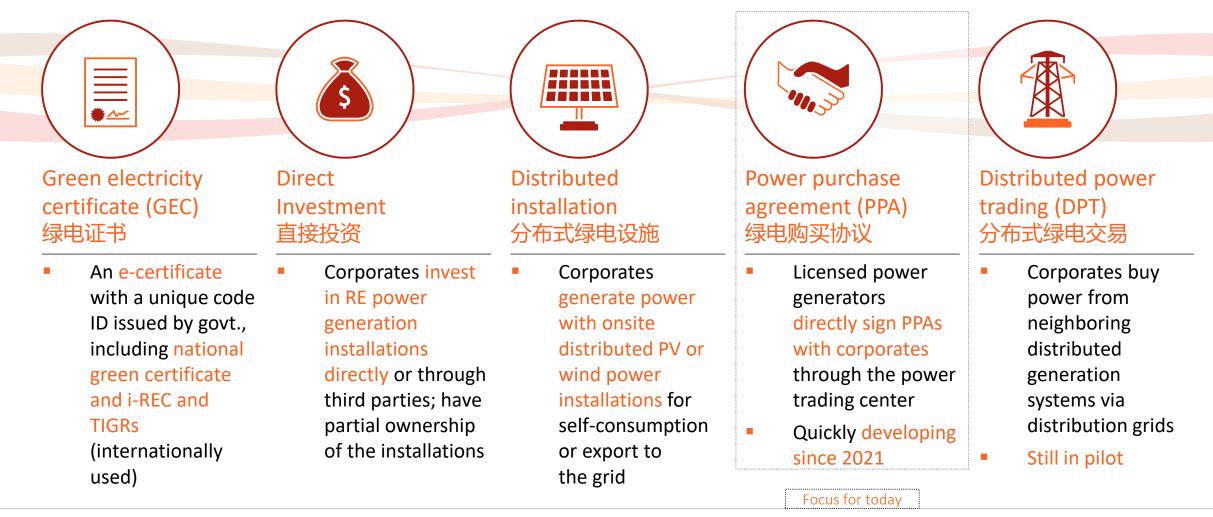
- Opportunity to collaborate on Power Purchase
  Agreements (PPAs) to grow supply of renewable energy
  共同协作、推动增长
- Supporting suppliers in meeting SMI joint, minimum supplier standard of committing to min. 80% renewable energy by '30 助力企业、满足要求
- Given regulatory pressures and increasing demand for RE, there is urgency to act now to secure steady supply at better prices 稳定供应、合理定价



# 在中国获取绿色电力的途径



Several options exist to unlock access to renewable power in China





# 绿色电力集中采购项目

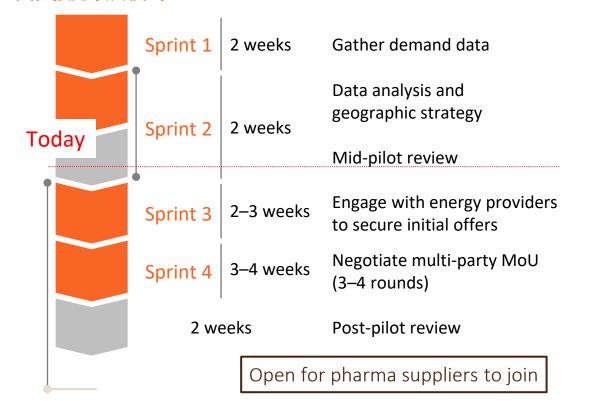
Green PPA project | AstraZeneca leading the effort, started with 4 pharma companies and 1 pharma supplier-open for others to join



AstraZeneca is leading an effort to sign renewable energy Power Purchase Agreements in China – through a multi-party framework agreement, open for pharma suppliers to join 多方框架,开放参与



This collaboration will drive benefits for all joined companies/suppliers, and there's real benefits in joining now rather than later as prices of PPAs may see an increase (See next page) 立即参与、及早获益 Approach consist of 4 sprints – now open for other pharma suppliers and companies to join sprints 3+4 四程接力项目模式



### Call for action | Why join the PPA



时不我待, 立即行动 Pharma suppliers should consider joining the Building responsible supply chains PPA efforts now as ....



Many of you have an ambitious target for renewable electricity by '25/'30 joining now means you are one step closer to have RE in China by '24



Supply of RE is already tight and sourcing complex, with supply expected to become increasingly constrained through legislation driving green demand



In China, prices of green PPAs may see an increase from '24 onwards – driven by rise of demand likely outpacing supply ramp-up



Acting before demand ramps up and fills top tier developers' pipelines may help secure better prices via a discount vs. market if able to secure a longerterm strategic framework agreement with providers



RE can offset (partial) impact of an increasing 'carbon price' (e.g., through CBAM, ETS) – reducing the cost gap between RE and grid electricity



Earlier engagement of RE developers means building relationships readying for meeting targets

### 中国绿电市场处于发展初期 – 政策多变、前景光明

China's green electricity market remains at their infancy – regulatory outlook extremely dynamic, but expected to improve

#### Status quo

Conditional recognition of Green Electricity Certificates (GEC) by RE100

Fragmented market rules

Limited inter-provincial electricity trade

#### Spot market integration



#### Outlook







Policy announced to orderly promote inter-provincial power trading in 01/'22

NDRC<sup>1</sup> has accelerated power market reform since Q2/'21

Approved work plan of green power trading pilot in 09/'21

Announced Guidance on Accelerating the Development of a

Latest policy (08/'23) reinforces GEC's uniqueness and traceability

Government is also working towards accelerating unconditional

Updated policy by Beijing Power Exchange Center in 08/'23 clarifying process for interprovincial green power trading<sup>2</sup>

14 provinces currently in pilot Most provinces expected to have spot market by 2030

of environmental attributes

recognition of GEC by global standards

Uniformed National Power Market in 01/'22





### We are looking for more suppliers to get involved

期待更多的供应商加 入我们的项目

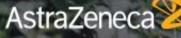
- We are looking for pharma suppliers to expand the group and build momentum
- We believe that together we can achieve better economics and lead the decarbonization effort more effectively
- If you are interested please reach out to <u>gary.lu@astrazeneca.com</u> and <u>Lu.Jingwen@bcg.com</u>, and we will gladly provide you with more details

### **Questions welcomed**



# Science can

Build a sustainable future for people, society and the planet



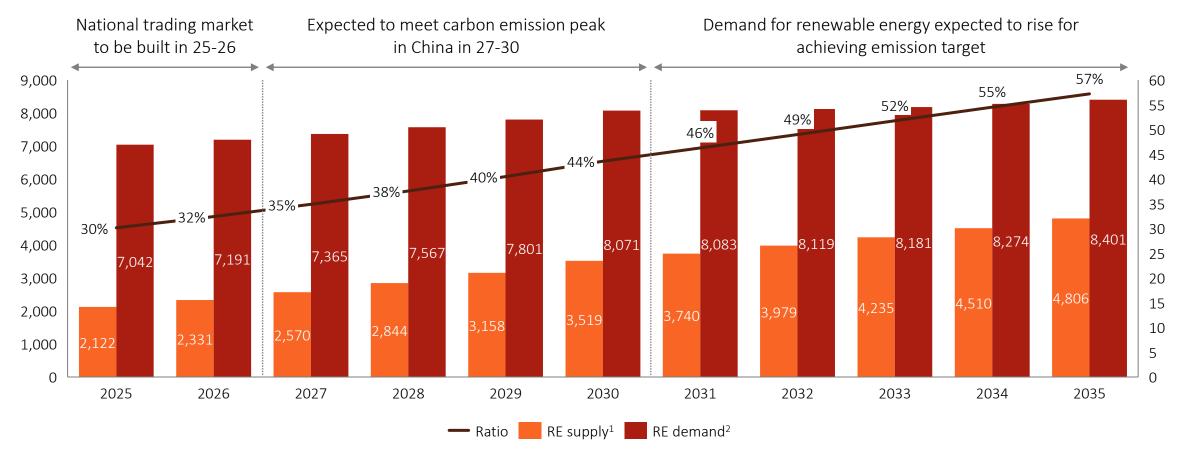
#WhatScienceCanDo





#### 中国绿电的供需矛盾会增加绿电采购的难度 Shortage of RE supply in relation to potential RE demand will increase the difficulty of buying green electricity in the market





**9** @PSCInitiative 70

Building responsible supply chains